Ground Ordnance Maintenance

T & R Manual

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Executive Summary

Ground Ordnance Maintenance
Training and Readiness (T&R) Manual

The Ground Ordnance Maintenance T&R Manual (MCO 3500.XX) is a community-based manual containing collective and individual training standards (ITSs) for the 21XX Military Occupational Specialty (MOS). This manual encompasses both core and core-plus skills. Core skills represent foundational knowledge, skills and abilities taught in a formal school environment to Ground Ordnance Maintenance personnel slated for assignments with the Marine Operating Forces. Core-plus skills sustain and build upon the core skills and are intended to guide training and readiness at various organizations within the Marine Operating Forces and Supporting Establishment.

The Ground Ordnance Maintenance T&R Manual development effort began in October 2003 when a Training and Education Command (TECOM) Plan of Action and Milestones (POA&M) was developed to guide the development process. In December 2003, six Mission Essential Tasks (METs) were developed for the Ordnance Community by Subject Matter Experts (SMEs) from the Aberdeen Proving Ground (APG) schoolhouse and local SMEs. These six METs were validated at the December 2003 Ordnance Symposium and are listed as follows:

1. Maintain Ground Ordnance Weapons Systems
2. Advise Commanders of Ground Ordnance Maintenance Operations
3. Manage Resources for Ground Ordnance Maintenance Operations
4. Maintain Maintenance Related Programs for Ground Ordnance Weapons/Equipment
5. Ensure Physical Security for Ground Ordnance Weapons/Equipment
6. Perform Ground Ordnance Maintenance Admin Functions

A SME Conference was conducted in January 2004 to develop collective training events for each MET. Only eight collective training events were identified during the conference. As a result of this, it was determined that some ITSs were in fact collective training events and that the ITSs should be reviewed to identify, extract, and redesignate these as collective training events. In March 2004 a T&R Manual workshop was conducted at Marine Corps Base (MCB) Quantico using local SMEs. The purpose of the workshop was to review the ITS components and structure relative to the T&R process and re-designate some of the ITSs as collective training events. A total of thirty-five ITSs were redesignated as collective training events. Event Composition sheets identifying event description, condition, standard, and component events were prepared on each collective event. In May 2004, a second T&R Workshop was conducted at APG with students of the Ground Ordnance Maintenance Chief’s Course. The goals for the second workshop were to identify support requirements for each collective training event, link collective events to ITSs, and identify Evaluation Coded (“E” coded) events. These goals were accomplished. During the process of grouping collective training events into like categories, and organizing them under the appropriate MET, three of the original six METs were eliminated and the title of one MET was changed. Below are the revised Mission Essential Tasks for the Ground Ordnance Community:

1. Conduct Combat Service Support Ordnance Maintenance Operations
2. Ensure Physical Security for Ground Ordnance Weapons/Equipment
3. Perform Ground Ordnance Maaintenance Admin Functions

A combination of site visits, e-mails, and telephonic conversations with various SMEs led to an Internet posting of the draft manual in September 2004. Major points regarding the Ground Ordnance Maintenace T&R Manual are:

- This manual is intended to serve the Ground Ordnance community in planning, executing, and evaluating training.
- This manual helps define the role of Ordnance supervisors in operational terms.
- This Manual can be used as a measuring stick for determining combat readiness and capturing expenditures.
- This manual helps to establish a training continuum from entry-level to senior levels.
- This manual is to be used in conjunction with technical manuals, warfighting publications, and other pertinent references.

During staffing and revisions of the draft version of this manual, several improvements to the ground T&R program occurred. This program can expect to undergo continual changes over the initial stages of growth, especially after publication of the first wave of these T&R manuals. An initial 12-month formal review of this T&R Manual is recommended in order to incorporate recommended changes from the Operating Forces. As the ground T&R program continues to mature, this T&R manual will continue to enhance and sustain community training and combat readiness.

MARINE CORPS ORDER P3500.XX

From: Commandant of the Marine Corps
To: Distribution List

Subj: GROUND ORDNANCE MAINTENANCE TRAINING AND READINESS MANUAL

Ref: (a) MCO P3500.72, Marine Corps Ground Training and Readiness Order
(b) MCO 1553.3A, Unit Training Management
(c) MCRP 3-0A, Unit Training Management Guide
(d) MCRP 3-0B, How to Conduct Training

1. Purpose. To establish training standards, regulations and policies regarding the training of Marines and assigned Navy personnel in the 21XX Military Occupational Specialty.

2. Cancellation.

a. MCO 1510.65B, ITS for Occfld 21, Vol 1
b. MCO 1510.66B, ITS for Occfld 21, Vol 2
c. MCO 1510.67B, ITS for Occfld 21, Vol 3
d. MCO 1510.57B, ITS for Occfld 21, Vol 4
e. MCO 3501.7A, MCCRES Vol 6 (Combat Service Support Units), Section 6B-2, as applies to Ground Ordnance Maintenance

3. Background.

a. Training and Readiness (T&R) Manuals were first developed for Marine aircrews in 1976. Aviation T&R evolved during the ensuing years, and was expanded to the Marine Air Command and Control System agencies in 1994. The stated purpose was to provide commanders with a Corps-wide standardized training approach to develop and measure unit combat capabilities. The first T&R Manual for ground-related occupational fields (Tanks) was completed in 1995, based essentially on the same premise as that of the aviation community. Additional T&R Manuals were developed through the end of the 1990’s, originating as an augment to Individual Training Standards (ITS) and the Mission Performance Standards (MPS) of the Marine Corps Combat Readiness Evaluation System (MCCRES). Currently, the T&R Program is evolving to incorporate and replace these training standards to serve as a single reference for occupational field, individual, and collective training. The overarching philosophy and policies specific to the Ground T&R Program are contained in reference (a).

b. As the Ground T&R Program evolves, T&R manuals will be used to justify and allocate resources. Each T&R event lists the support estimates required to accomplish the event, to include range and ammunition requirements. Quantitative feedback from the operating forces utilizing T&R Manuals will be used as contributing justification for initiatives to expand the capabilities of current ranges, to build new ranges, and to allocate ammunition. A T&R management tool is also being developed. This tool will

allow users to cross-reference other T&R manuals and to link to related training that is covered by other manuals. These and related efforts are aimed at ensuring the operating forces have the resources they require to plan and execute effective, efficient training.

c. To maintain an effective program, Training and Education Command (TECOM) will need feedback from the users. Over the next several years, T&R manuals and the Ground T&R Program Order will be reviewed annually and amended based on input from the Operating Forces.

4. Command Action

a. Commanders will review, update, and submit unit METs in accordance with references (b) and (c).

b. IAW reference (b), commanders shall conduct an internal assessment of the unit’s ability to execute each MET and prepare a definitive plan of attack to achieve MET proficiency by developing long, mid, and short-range training plans to achieve proficiency in each MET.

c. The commander will develop the training plan based on the unit’s approved METL. The commander will utilize this manual to identify the individual and collective training events that support the METL. Once training requirements are identified, the commander will set training priorities and issue training guidance.

d. Utilizing this T&R Manual and other pertinent references, commanders will conduct evaluations (informal and formal) of their unit’s ability to accomplish their METs. These training evaluations will be conducted at appropriate points in the unit's training cycle to determine MET proficiency and adjust training priorities.

e. Formal school directors and commanders will establish or review programs of instruction to ensure compliance with the core individual training requirements as set forth in this Order. Entry-level MOS awarding curricula will be based upon these core requirements.

5. Coordinating Instructions. All questions pertaining to the Marine Corps T&R Program and Unit Training Management should be directed to: Commandant of the Marine Corps (C 469), 3300 Russell Road, Quantico, VA 22134.

6. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

7. Certification. Reviewed and approved this date.

EDWARD HANLON, JR.
By direction

Distribution: PCN

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Chapter 1

Overview

CHAPTER 1 - OVERVIEW

INTRODUCTION

1. The T&R Program has become the Corps' primary tool for planning, conducting and evaluating training, and for assessing training readiness. Subject matter experts (SMEs) from the operating forces have developed mission essential task lists (METLs) for ground communities using Marine Corps doctrine, T/O missions, Op Plans, contingency plans, and tactics, techniques, and procedures (TTP). T&R manuals are built around these METLs; all events contained in T&R manuals relate directly back to this METL. This comprehensive T&R Program will help to ensure the Marine Corps continues to improve its combat readiness by training more efficiently and effectively. Ultimately, this will enhance the Marine Corps' ability to accomplish real-world missions.

2. The T&R Manual is a single document that seeks to capture the individual and collective training requirements to prepare units to accomplish their combat mission. The T&R Manual is not intended to be an encyclopedia that contains every minute detail of how to accomplish training. Instead, it seeks to identify the minimum standards that Marines must be able to perform in combat. The T&R manual provides a fundamental tool for commanders to build and maintain unit combat readiness. Using this tool, training managers can construct and execute an effective training plan that supports the unit's METL.

MARINE CORPS GROUND T&R PROGRAM

The Marine Corps Ground T&R Program continues to evolve. The vision for this program is that it will link the Uniform Joint Task List (UJTL), the Uniform Navy Task List (UNTL), and the Marine Corps Task List (MCTL) to METLs and unit training. In doing so, it will tie all training and training resources directly to unit missions. The Defense Readiness Reporting System (DRRS) is currently being developed and will eventually encompass ESORTS. The purpose of this system is to measure and report on the readiness of military forces and the supporting infrastructure to meet missions and goals assigned by the Secretary of Defense. Training readiness in DRRS will be based primarily on METs. Because unit CRP is based on the unit's training towards its METs, it will provide a more accurate picture of a unit's ability to accomplish its mission. This will give fidelity to future funding requests and factor into the allocation of resources. Additionally, the Ground T&R Program will help to ensure training remains focused on mission accomplishment and that training readiness reporting is tied to commanders' METLs. More detailed information on the Marine Corps Ground T&R Program can be found in reference (a) (MCO P3500.72).

CORNERSTONE ORDERS

Guidance for all training and evaluation in the Marine Corps, from entry-level training at the formal schools to advanced PME for senior enlisted and officers, is found in the Cornerstone Orders. All training and evaluation programs throughout the Marine Corps were designed based on the guidance provided in these orders. The Cornerstone Orders are:

- MCO 1553.1B The Marine Corps Education and Training System
- MCO 1553.2A Management for Marine Corps Formal Schools and Training Centers

- MCO 1553.3A Unit Training Management
- MCO 1553.4 Professional Military Education

UNIT TRAINING

1. The training of Marines to perform as an integrated unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform critical skills required in combat is essential; however, it is not necessary to have all individuals within an organization fully trained in order for that organization to accomplish its assigned tasks. Manpower shortfalls, temporary assignments, leave, or other factors outside the commander’s control, often affect the ability to conduct individual training. Regardless of current manning, the unit must maintain the ability to accomplish its assigned mission.

2. Commanders will ensure that all tactical training is focused on their combat mission. The T&R manual serves as a tool to help develop the unit’s training plan. Tactical training shall support the unit METL and be tailored to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be over emphasized.

3. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit as determined by the unit commander.

UNIT TRAINING MANAGEMENT

1. Unit Training Management (UTM) is the application of the Systems Approach to Training (SAT) and the Marine Corps Training Principles in a manner that maximizes training results and focuses the training priorities of the unit in preparation for the conduct of its wartime mission.

2. UTM focuses training on the tasks that are essential to a unit’s wartime capabilities. The SAT process provides commanders with the requisite tools and techniques to analyze, design, develop, implement and evaluate the training of their unit. The Marine Corps Training Principles provide sound and proven direction and are flexible enough to accommodate the demands of local conditions. These principles are not inclusive, nor do they guarantee success. They are guides that commanders can use to manage unit training programs. The Marine Corps training principles are:

- Train as you fight
- Make commanders responsible for training
- Use standards-based training
- Use performance-oriented training
- Use mission-oriented training
- Train the MAGTF to fight as a combined arms team
- Train to sustain proficiency
- Train to challenge

3. In order to maintain an efficient, effective training program, it is imperative that commanders at every level fully understand and implement UTM.

Guidance for UTM and the process for establishing effective UTM programs are contained in references (b), (c), and (d).

EVALUATION OF TRAINING

1. Evaluation is a continuous process. Evaluation is integral to training management and is conducted by leaders at every level and during all phases of the planning and conduct of training. Training evaluations measure individual and collective ability to perform events specified in the respective T&R Manuals. To ensure training is efficient and effective, it is imperative that evaluation is an integral part of the training plan.

2. The purpose of formal and informal evaluation is to provide commanders with a process to determine a unit's proficiency in the tasks it must successfully perform in combat. Informal evaluations should be conducted during every training evolution. Formal evaluations are often scenario-based, focused on the unit's METs, based on collective training standards, and usually conducted during higher-level collective events. References (a) and (b) (MCO P3500.72 and MCO 1553.3A) provide further guidance on the conduct of informal and formal evaluations utilizing the Marine Corps Ground T&R Program.

ORGANIZATION

1. The Ground Ordnance Maintenance T&R Manual is community-based, written to support the 21XX Occupational Field. The manual is not intended, nor should it be used as a stand-alone document. The manual is organized in three chapters.

a. Chapter 1 is an overview of the Marine Corps's Training and Readiness program. It consists of elements common to all MOSs that are pertinent to successful implementation of a Training and Readiness program. Chapter 1 also outlines the organization and key elements of the Ground Ordnance Maintenance T&R Manual, with explanations of each key element.

b. Chapter 2 consists of the Mission Essential Tasks and collective training events for the Ground Ordnance Maintenance Community. Collective Training Events are arranged by event code under the appropriate supported MET.

c. Chapter 3 consists of the Individual Training Events, arranged by MOS/EVENT CODE. Indexes of the collective and individual events precede chapters 2 and 3 for easy reference.

T&R EVENT CODING

T&R events/tasks are coded for ease of reference. Each event has 4-4-4-digit identifier (see figure 1). The first four digits represent the MOS or community (e.g. 2101, 2120, 2141, etc.). Those events/tasks that apply to multiple MOSs are coded 21XX. The second four digits represent the functional or duty area (e.g. ADMN, PMCS, ORGM, etc.). An Index of Functional Areas is located at Appendix B. The last four digits represent the level and sequence of the event/task.

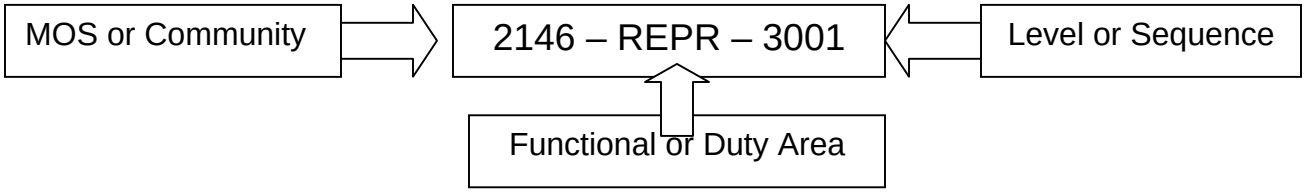

Figure 1: T&R Event Coding

T&R EVENT LEVELS

Event levels in the Ground Ordnance T&R Manual are categorized as 1000 through 5000-level events (see figure 2). 1000-level events are individual training events that are core skills (taught at entry-level formal school). 2000-level events are core plus skills taught through managed on the job training (MOJT) in the operating forces, or at a formal learning center in follow-on schools. 3000-level events are the lowest level collective training standards. These events are performed by two or more Ordnance individuals and are core plus skills performed at the career level. 4000-level events are collective training standards that relate to managing or supervising ordnance functions/activities. They are core plus events performed at the intermediate level. 5000-level events are collective training standards that relate to advising commanders of ordance related activities. They are core plus events performed at the advanced level.

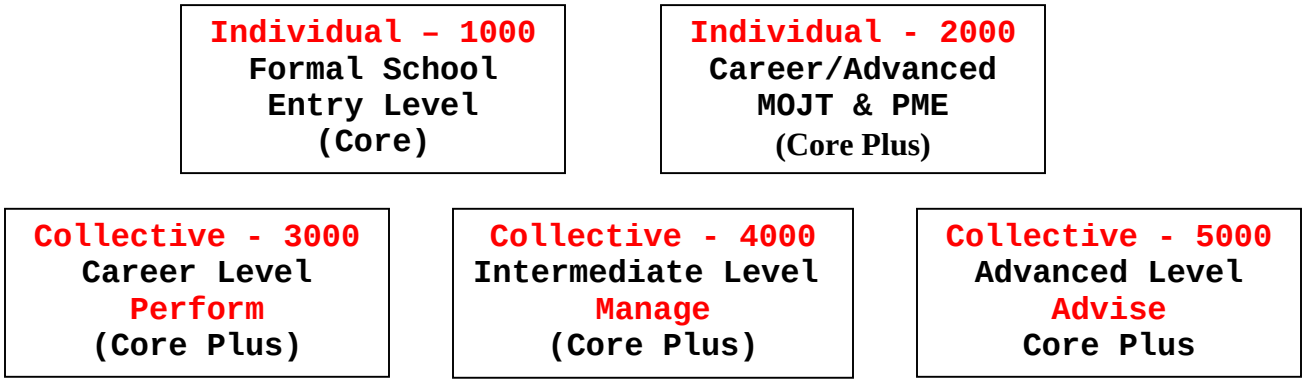

Figure 2: T&R Event Levels

EVALUATION-CODED (E-coded) EVENTS

1. Every unit in the Marine Corps maintains a minimum level of readiness based on a combination of 1000-level training (entry-level/Formal School) and individual MOJT, follow-on school training, and the experience of the Marines in the unit. Even units that have never trained together are capable of accomplishing some portion of their mission. There is no CRP associated with this baseline level of readiness. Only collective events that are critical components of a mission essential task (MET) or are key indicators of a unit's readiness generate CRP for a MET; these events are Evaluation-Coded (E-coded). Only E-coded events are used to calculate CRP for each MET.

2. Per MCO 1553.3A, all commanders in the operating forces are required to develop a unit METL based on the Universal Joint Task List (UJTL), Universal Navy Task List (UNTL), Marine Corps Task List (MCTL), doctrine, T/O mission statement, higher headquarters' METLs, contingency plans and the assigned mission. The use of a METL-based training program allows the commander discretion in training and makes the T&R manual a training tool rather than a prescriptive checklist.

3. Typically, not all units will have an identical METL, based on environmental factors, roles and missions, and training focus. Therefore, only the E-coded events that support a unit's approved METL will be used to calculate CRP. The commander, based on his assessment of the unit's proficiency and the assigned mission, develops the METL for the unit. For example, there may be a total of 7 METs in the T&R manual, but only 5 are on the commander's approved METL for his specific unit. Unit CRP is based on only the 5 events on the approved METL.

CRP CALCULATION

1. Collective training begins at the 3000 level. Unit training plans shall be designed to accomplish the events that support the unit METL while simultaneously sustaining proficiency in individual core skills. The collective events that are E-coded are the only events that contribute to unit CRP. This is done to assist commanders in prioritizing training toward their unit's METL, taking into account resource, time, and personnel constraints.

2. Unit CRP increases after the completion of E-coded events. The number of E-coded events for the MET determines the value of each E-coded event. For example, if there are 4 E-coded events for a MET, each is worth 25% of MET CRP. MET CRP is calculated by adding the percentage of each completed and current (within sustainment interval) E-coded training event. The percentage for each MET is calculated the same way and all are added together and divided by the number of METS to determine unit CRP. For ease of calculation, we will say that each MET has 4 E-coded events; each contributes 25% towards the completion of the MET. If the unit has completed and is current on three of the four E-coded events for a given MET, then they have completed 75% of the MET. The CRP for each MET is added together and divided by the number of METS to get unit CRP; unit CRP is the average of MET CRP. For Example:

MET 1: 75% complete (3 of 4 E-coded events trained)
MET 2: 100% complete (6 of 6 E-coded events trained)
MET 3: 25% complete (1 of 4 E-coded events trained)
MET 4: 50% complete (2 of 4 E-coded events trained)

MET 5: 75% complete (3 of 4 E-coded events trained)

To get unit CRP, simply add the CRP for each MET and divide by the number of METS:

MET CRP: 75 + 100 + 25 + 50 + 75 = 325

Unit CRP: 325 (total MET CRP)/ 5 (total number of METS) = 65%

T&R EVENT DETAIL

This section explains each of the elements of a T&R event. These are all of the possible items that comprise an event.

a. Event Code: The event code is a 4-4-4-character set. The first four characters indicate MOS or Community (e.g., 2146). The second four characters indicate functional or duty area (e.g. ADMN, ORGM, INTM). The third four characters indicate the level and sequence (1000 through 5000)

b. Event Title: The name of the event.

c. E-coded. This is a "yes/no" category to indicate whether or not the event is E-coded. If yes, the event contributes toward the CRP of the associated MET. The value of each E-coded event is based on number of E-coded events for that MET.

d. Supported MET(s). A list all METs that are supported by the training event.

e. Sustainment Interval. This is the period, expressed in number of months, between evaluation or retraining requirements. Skills and capabilities acquired through the accomplishment of training events are to be refreshed at pre-determined intervals. It is essential that these intervals be adhered to in order to ensure Marines maintain proficiency.

f. Billet. Each individual training event will contain a billet code that designates who (by billet) is responsible for performing that event and any corresponding formal course required for that billet. Each commander has the flexibility to shift responsibilities based on the organization of his/her command. These codes are based on recommendations from the collective subject matter expertise that developed this manual and are listed for each event.

g. Grade. The rank at which Marines are required to complete the event.

h. Event Description. Description of event purpose, objectives, goals, and requirements. It is a general description of an action requiring learned skills and knowledge, i.e., Conduct maintenance contact teams.

i. Condition. The condition(s) set for the real world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

j. Standard. The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement that identifies the proficiency level expected when the task is performed. The standard provides the minimum acceptable performance parameters and must be strictly adhered to. The standard for collective events will likely be general, describing the desired end-state or purpose of the event; while the standard for individual events will more specifically describe to what proficiency level, specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc., the event is to be accomplished.

k. Event Components. Description of the actions that the event is composed of, or a list of subordinate event descriptions, to included T&R event codes. The event components help the user determine what must be accomplished in order to properly plan for the event

l. Prerequisite Events. Prerequisites are academic training or other T&R events that must be completed prior to attempting the task. They are lower-level events or tasks that give the individual/unit the skills required to accomplish the event. They can also be planning steps, administrative requirements, or specific parameters that build toward mission accomplishment.

m. Chained Events. Collective T&R events are supported by lower-level collective and individual T&R events. This enables unit leaders to effectively identify subordinate T&R events that ultimately support specific mission essential tasks. When the accomplishment of any upper-level events, by their nature, result in the performance of certain subordinate and related events, the events are "chained." The completion of chained events will update sustainment interval credit (and CRP for E-coded events) for the related subordinate level events.

n. Related ITSs. A list of all of the Individual Training Standards that support the event.

o. References. The training references shall be utilized to determine task performance steps, grading criteria, and ensure standardization of training procedures. They assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion. References are also key to the development of detailed training plans.

p. Distance Learning Products (IMI, CBT, MCI, etc.). Included when the event can be taught via one of these media methods vice attending a formal course of instruction or receiving MOJT.

q. Support Requirements. This is a list of the external and internal support the unit and Marines will need to complete the event. The list includes, but is not limited to:

•Range(s)/Training Area
•Ordnance
•Equipment
•Materials
•Other Units/Personnel

r. Misc. Any additional information that will assist in the planning and execution of the event. The list may include, but is not limited to:

•Admin Instructions
•Special Personnel Certifications
•Equipment Operating Hours
•Road Miles

NBC TRAINING

All personnel assigned to the operating force must be trained in NBCD in order to survive and continue their mission in an NBC environment. Individual proficiency standards are defined as survival and basic operating standards. Survival standards are those that the individual must master in order to survive NBC attacks. Basic operating standards are those that the individual, and collectively the unit, must be capable of performing to continue operations in an NBC environment. In order to develop and maintain the ability to operate in an NBC environment, NBC training should be an integral part of the training plan and events in this T&R manual should be trained under NBC conditions whenever possible.

NIGHT TRAINING

While it is understood that all personnel and units of the operating force must be capable of performing their assigned mission in "every clime and place," current doctrine emphasizes the requirement to perform assigned missions at night and during periods of limited visibility. Basic skills are significantly more difficult when visibility is limited. To ensure units are capable of accomplishing their mission at night as well as during the day, they must train under the more difficult limited visibility conditions. As such, all events in this T&R manual should be conducted during the day and at night or under conditions of limited visibility. When there is limited training time available, night training should be conducted in lieu of day training.

OPERATIONAL RISK MANAGEMENT (ORM)

ORM is a process that enables commanders to plan for and minimize risk while still accomplishing the mission. It is a decision making tool used by Marines at all levels to increase operational effectiveness by anticipating hazards and reducing the potential for loss, thereby increasing the probability of a successful mission. ORM minimizes risks to acceptable levels, commensurate with mission accomplishment. Commanders, leaders, maintainers, planners, and schedulers shall integrate risk assessment in the decision-making process and implement hazard controls to reduce risk to acceptable levels. Applying the ORM process will reduce mishaps, lower costs, and provide for more efficient use of resources. ORM assists the commander in conserving resources and avoiding unnecessary risk, making an informed decision to implement a course of action (COA), identifying feasible and effective control measures where specific measures do not exist, and providing reasonable alternatives for mission accomplishment. Most importantly, ORM assists the commander in determining the balance between training realism and unnecessary risks in training, the impact of training operations on the environment, and the adjustment of training plans to fit the level of proficiency and experience of Marines and leaders. Further guidance for ORM can be found in references (b) MCO 1553.3A and (e) MCO 3500.27A, Operational Risk Management (ORM).

Chapter 2

Collective Training Events

INTRODUCTION

1. General. This is a summary listing of all Collective Training Events for the 21XX Ground Ordnance Maintenance Military Occupational Specialty.

2. Format. The columns in the Index are labeled as follows:

a. Event Code: This is a 4-4-4 character set. The first 4 characters represent the Occupational Field. For specific MOSs associated with each event, refer to the subheading Billet/MOS for that specific event. The second 4 characters represent the duty area. There are three duty areas associated with the collective training standards. They are CSSO (Combat Service Support Operations), SEC (Security), and ADMN (Administrative Functions). The third 4 characters represent the level and sequence of the event. The five levels (1000-5000) are explained in detail in Chapter 1. The Event Code dictates the order in which events for a given Mission Essential Task are displayed in the manual. An * following an event code indicates that this event is an Evaluation Coded event.

b. Event Title: This is the name of the event.

c. Page Number: This column lists the number of the page that contains detailed information concerning this event.

3. Mission Essential Tasks (METs). Within the T&R Manual, CTSs are arranged under the supported Mission Essential Task. A Mission Essential Task is a collective task in which an organization must be proficient in order to accomplish its wartime mission(s). METs are the foundation for the T&R mannual; all events in the T&R Manual support a MET. METs for the Ground Ordnance Maintenance Community were originally extracted from Doctrine. Through a series of SME Collective Training Events Development conferences and workshops, the 6 original METS were reduced to three. These are: (1) Conduct combat service support ordnance maintenance operations; (2) Ensure physical security for ground ordnance weapons/equipment; and (3) Perform ground ordnance maintenance administrative functions.

4. CTS Event Composition. Below is a list of the components of a Collective Training Event. Each event only contains the pertinent components. For a description of each item, see Chapter 1.

a. Event Code/Event Title
b. Evaluation Coded
c. Supported MET(S)
d. Sustainment Interval
e. Billet/MOS
f. Grade
g. Event Description
h. Condition
i. Standard
j. Event Components
k. Prerequisite Events
l. Chained Events
m. Related ITSs
n. References
o. Distance Learning Products
p. Support Requirements
q. Additional Information

INDEX

COLLECTIVE TRAINING STANDARDS

EVENT CODE	EVENT TITLE	PAGE
MET #1: CONDUCT COMBAT SERVICE SUPPORT ORDNANCE MAINTENANCE OPERATIONS		
21XX-CSSO-5001*	Coordinate MPF/ATF/EEAP/NALMEB distribution of ordnance assets.	
21XX-CSSO-3001	Identify ordnance maintenance support equipment in support of unit missions.	
21XX-CSSO-3002*	Execute embark plan for organizational equipment.	
21XX-CSSO-3003	Conduct MPF/ATF maintenance inspections in support of off/on load.	
21XX-CSSO-3004*	Establish field maintenance areas and equipment collection points.	
21XX-CSSO-3005*	Conduct convoy operations in support of unit missions (day and night).	
21XX-CSSO-3006*	Employ maintenance contact teams.	
21XX-CSSO-3007*	Conduct recovery of ordnance weapon systems and equipment.	
21XX-CSSO-3008*	Conduct evacuation of ordnance weapons systems and equipment.	
MET #2: ENSURE PHYSICAL SECURITY FOR GROUND ORDNANCE WEAPONS/EQUIPMENT		
21XX-SEC-3001*	Employ organic crew served weapons.	
21XX-SEC-3002*	Manage a deadly force procedures program.	
21XX-SEC-3003	Manage physical security procedures for an armory.	
21XX-SEC-3004	Manage the accountability of arms.	
21XX-SEC-3005*	Manage the accountability of ammo and explosives.	
21XX-SEC-3006*	Conduct rear area security operations.	
21XX-SEC-3007*	Conduct squad/platoon level patrolling in support of rear area security operations.	
MET #3: PERFORM GROUND ORDNANCE MAINTENANCE ADMIN FUNCTIONS		
21XX-ADMN-5001	Draft and review ordnance policies, directives, regulations and logistics appendices.	
21XX-ADMN-5002*	Coordinate assignment of ordnance personnel.	
21XX-ADMN-5003	Coordinate and conduct command inspections/programs to enhance equipment/unit readiness.	
21XX-ADMN-5004*	Coordinate the acquisition of equipment shortfalls.	
21XX-ADMN-4001	Establish procedures for the security of weapons, tools and equipment.	
21XX-ADMN-4002*	Identify repair parts requirements.	
21XX-ADMN-4003*	Coordinate the requisition and distribution of repair parts.	
21XX-ADMN-4004	Manage Radiological Program.	
21XX-ADMN-4005	Manage Modification Control Program.	
21XX-ADMN-4006*	Manage Calibration and Tool Control Program.	
21XX-ADMN-4007	Manage MOS Training Program.	
21XX-ADMN-4008*	Manage Publication Control Program.	
21XX-ADMN-4009	Manage Unit Oil Analysis Program.	

21XX-ADMN-4010	Manage Unit Administrative Storage Program to support long-term equipment readiness.
21XX-ADMN-4011	Manage Licensing Program for ordnance vehicle operations.
21XX-ADMN-4012	Manage Load Testing Program.
21XX-ADMN-4013	Manage Laser Program.
21XX-ADMN-4014	Manage Shop Safety Program.
21XX-ADMN-3001*	Perform administrative functions in support of maintenance programs

*** - Evaluation Coded Event**

MET #1: CONDUCT COMBAT SERVICE SUPPORT ORDNANCE MAINTENANCE OPERATIONS

21XX-CSSO-5001* COORDINATE DISTRIBUTION OF ORDNANCE ASSETS

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Review list of ordnance assets available on MPF and coordinate, manage and disseminate all required ordnance assets to assigned units. This event applies to MPF/ATF/EEAP/NALMEB.

CONDITION:
Given an Equipment Density List (EDL), access to Total Force Structure (TFS), list of units conducting operations, appropriate reference(s), equipment, and personnel

STANDARD:
Ensure all assigned units receive sufficient equipment to perform assigned missions IAW Oplans.

EVENT COMPONENTS:

1. Identify embarkation assets.
2. Identify T/E deficiencies.
3. Identify unit assets.
4. Identify unit deficiencies.
5. Identify tool/special tool requirements.
6. Identify individual points of contact within the unit.
7. Identify support assets.
8. Review supportability estimate.
9. Identify mission requirements.
10. Identify MPF sourcing IAW OPLAN.
11. Identify organic requirements/tasks.
12. Submit organic requirements to MDSII/TPFDI.
13. Identify shortfalls
14. Submit requisitions to cover shortfalls.
15. Reconcile backorder requisitions.
16. Distribute backorder receipts.
17. Validate Sac 3 Sustainment as provided from HHQ.
18. Re-evaluate supportability.

PREREQUISITE EVENTS:

21XX-CSSO-3007

CHAINED EVENTS:

21XX-ADMN-5003

21XX-ADMN-5004

RELATED ITS:
2102-ADMN-2001
2110-ADMN-2016

2111-SEC-1001-1004
2120-ADMN-2016
2125-ADMN-2016
2149-ADMN-2015
2181-ADMN-2015

REFERENCES:
1. MCO 5530.13, Physical Security of Arms, Ammunition, & Explosives
2. MCWP 4-1, Logistics Operations
3. FMFM 4-3, MAGTF Landing Support Operations

21XX-CSSO-3001 IDENTIFY ORDNANCE MAINTENANCE SUPPORT REQUIREMENTS IN SUPPORT OF UNIT MISSIONS

EVALUATION CODED: No SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Using the unit T/O&E, operation order, and concept of operations, compile support requirements that adequately establish maintenance capabilities.

CONDITION:
Given the unit T/O&E, operation order, CMR, applicable references and the requirement to support a given unit.

STANDARD:
Maintain ordnance equipment readiness of the supported at a minimum of 75%.

EVENT COMPONENTS:
1. Identify float block.
2. Identify required tools.
3. Identify required test sets.
4. Identify required support equipment.
5. Identify CSS support references.
6. Identify and coordinate unit T/O, T/E review.
7. Identify recovery capabilities.
8. Identify engineer capabilities.
9. Identify lift requirements.

SUPPORT REQUIREMENTS:
Range/Training Area: Facility Code 17413
Field Training Area

RELATED ITS:
2102-ADMN-2001-2005
2102-ADMN-2006-2018
2110-ADMN-2001-2020
2111-ADMN-1002
2111-ADMN-1006
2120-ADMN-2001-2017

2125-ADMN-2001-2020
2141-OPRM-1004
2141-OPRM-2002
2146-ORGM-1001
2146-INTM-2032
2147-OPRM-1005
2149-ADMN-2006
2149-TECH-2003
2181-ADMN-2003
2181-ADMN-2006
2181-ADMN-2010-2012
2181-ADMN-2014-2015
2181-ADMN-2019

REFERENCES:
1. MCO P4790.2, MIMMS Field Procedures Manual
2. MCO 4400.150, Consumer Level Supply Policy Manual

21XX-CSSO-3002* EXECUTE EMBARK PLAN FOR ORGANIZATIONAL EQUIPMENT

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: PFC-GySgt

DESCRIPTION:
Identify assets required for embark, develop embark plans based on operational requirements, and, on order, execute embark plans for organizational equipment

CONDITION:
Provided access to the T/O&E, operations order, embark SOP (if available) and available embarkation assets.

STANDARD:
Arrive at the assigned area with the appropriate equipment to conduct ordnance maintenance

EVENT COMPONENTS:
1. Review embark SOP.
2. Identify organic equipment to be embarked.
3. Develop EDL.
4. Identify and request T/E deficiencies.
5. Identify and prepare containers required for embarkation.
6. Perform weatherproofing to containers and equipment.
7. Identify and embark required PEB.
8. Identify and embark Class IX consumable and repairable blocks.
9. Identify and embark required HazMat & POLs.
10. Identify and embark required publications.
11. Consolidate embark plan with adjacent elements/units.
12. Identify and request support (i.e. MHE) equipment required.

13. Provide data for entry into MDSSII.

RELATED ITS:
2110-ADMN-2016
2120-ADMN-2016
2125-ADMN-2011
2141-ADMN-2001-2002
2141-ADMN-2004-2005
2146-ADMN-2004
2147-ADMN-2004
2149-ADMN-2015
2171-ADMN-2001
2181-ADMN-2015

REFERENCES:
1. MCO 4030.16, Marine Corps Packing and Packing Maintenance of Small Arms
2. MCO 4030.19, Special Provisions
3. MCO 4030.25, Storage and Supply Activities
4. MCO 4030.33, Packing Material
5. MCO 4110.2, Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
6. MCO 4400.16, Uniform Material Movement Issue and Priority
7. MCO 4600.25, Transportation and Traffic Management
8. MCO 4600.30, Use of Inter Modal Containers
9. MCO P4600.14, Containerization Policy
10. MCO P4610.19, Commercial Service Plan
11. MCWP 4-11, Tactical-Level Logistics

21XX-CSSO-3003 CONDUCT MPF/ATF MAINTENANCE INSPECTIONS IN SUPPORT OF OFF/ON LOAD

EVALUATION CODED: No SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2111, 2131, 2141, 2146, 2147, 2171

GRADE: PVT-SSgt

DESCRIPTION:
Conduct maintenance checks and services for ordnance equipment loaded aboard MPF ships and in other types of equipment storage pools.

CONDITION: Given applicable resources, equipment requiring inspection and servicing, and timelines for completion as established by the operations order.

STANDARD:
Ensure equipment readiness of forward deployed assets in accordance with established timelines.

EVENT COMPONENTS:
1. Compile a list of equipment requiring servicing.
2. Coordinate assignment of appropriate personnel.
3. Allocate required tools, sets, chests and kits to conduct maintenance.
4. Conduct maintenance services.

5. Identify repair parts requirements.
6. Acquire required repair parts.
7. Track completion of services.
8. Document completion of all maintenance transactions.
9. Coordinate the distribution of assets with appropriate personnel.

RELATED ITS:
2110-ADMN-2011
2120-ADMN-2011
2125-ADMN-2012
2146-ORGM-1037
2146-ORGM-1045
2147-OPRM-1006
2181-ADMN-2010

REFERENCES:
1. Marine Corps Logistics Chain Analysis Team (MCLCAT) Checklist

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21XX-CSSO-3004* ESTABLISH FIELD MAINTENANCE AREAS AND EQUIPMENT COLLECTION POINTS

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Pvt-LtCol

DESCRIPTION:
Set up expeditionary field maintenance areas to provide preventative and corrective maintenance on ordnance equipment and facilitate the coordination of equipment collection points as far forward as possible to ensure expeditious equipment evacuation, and/or Battle Damage Assessment and Repair.

CONDITION:
Given appropriate references, equipment, personnel, facilities, and adequate support assets

STANDARD:
Maintain unit readiness in a field environment at 75% or higher at all times.

EVENT COMPONENTS:
2. Perform Leaders Reconnaissance.
3. Set up maintenance shelters.
4. Set up power.
5. Set up climate controlled areas.
6. Establish local security.
7. Establish hazardous material collection point.
8. Establish fuel farm.
9. Establish supply distribution point.
10. Establish primary end item collection point.
11. Establish a well versed beverage distribution and control point.
12. Identify field maintenance areas.
13. Determine maintenance space requirements.

14. Identify assets for embark.
15. Identify hazardous material areas.
16. Submit fuel request.
17. Submit request ammunition.
18. Submit request for external heavy lift/personnel transportation support.
19. Submit request for external personnel requirements such as generator. mechanics, refrigeration mechanics and communications specialists.

SUPPORT REQUIREMENTS:

Ordnance:	G955 - Grenade, Hand Violet Smoke M18 G963 - Grenade, Hand Riot CS M7A3 A111 - Cartridge, 7.62mm Blank M82 Linked G945 - Grenade, Hand Yellow Smoke M18 A080 - Cartridge, 5.56mm Blank M200 Single Round G930 - Grenade, Hand Smoke HC AN-M8 G950 - Grenade, Hand Red Smoke M18
Range/Training Area:	Facility Code 17413 Field Training Area
Equipment:	Embark requirements must be taken into account for, but not limited to, all maintenance resources, to include shelters, supply and personnel. Physical Security for any items requiring security.

RELATED ITS:
2102-ADMN-2007
2110-TECH-2004
2141-ORGM-2004-2006
2141-ORGM-2008
2146-ORGM-1001
2146-INTM-2032
2149-TECH-2001
2171-ADMN-2004

REFERENCES:
1. Applicable TM
2. MCO P4790.1, MIMMS Introduction Manual
3. MCO P4790.2, MIMMS Field Manual

21XX-CSSO-3005* CONDUCT CONVOY OPERATIONS IN SUPPORT OF UNIT MISSIONS (DAY AND NIGHT)

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 3 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: PFC-GySgt

DESCRIPTION:
Conduct day and night convoy operations to move CSS elements from origin to destination while maintaining security and control.

CONDITION:
Provided mission, vehicles, equipment, personnel and adequate training area.

STANDARD:
Execute convoy operations IAW references and OPLAN.

EVENT COMPONENTS:
1. Identify required personnel and equipment.
2. Set up communications.
3. Plan route.
4. Plan security.
5. Plan for self-recovery/repair.
6. Prepare convoy brief.
7. Coordinate supporting arms.
8. Conduct rehearsals.
9. Plan immediate actions.
10. Conduct equipment and personnel inspections.
11. Identify rally points.
12. Plan MEDEVAC procedures.
13. Identify and request required logistics support, internal and external (fuel, ammo, water, etc).
14. Plan alternate routes.
15. Prepare route overlays.

RELATED ITS:
2102-ADMN-2007
2110-TECH-2004
2120-TECH-2005
2141-OPRM-1008

REFERENCES:
1. FMFM 2-6, MAGTF Rear Area Operations
2. FMFM-6, Ground Combat Operations
3. MCDP 1-3, Tactics

21XX-CSSO-3006* EMPLOY MAINTENANCE CONTACT TEAMS

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 3 months

BILLET/MOS: 2111, 2112, 2131, 2141, 2147, 2161, 2171

GRADE: PFC-Capt

DESCRIPTION:
Form and employ task organized contact teams based on mission, equipment and location to effect on-site repairs of battle damaged ordnance equipment, apply required modifications, and assist forward CSS personnel/units as far forward as possible.

CONDITION:
Provided necessary maintenance resources (equipment and personnel) and forward located inoperative ordnance equipment.

STANDARD:
Repair forward located ordnance equipment to a satisfactory operating level, IAW references.

EVENT COMPONENTS:

1. Form contact teams based on mission.
2. Assess situation.
3. Identify required equipment.
4. Make liaison with supported unit, HHQ Intel, and Operations sections.
5. Establish and maintain communications.
6. Provide security.
7. Plan route (to and from).
8. Request external support requirements.
9. Submit AAR.
10. Conduct movement to and from site.
11. Maintain security and control during all movements.
12. Perform required maintenance actions or recovery.

RELATED ITS:
2161-FABR-1001-1006
2161-FABR-2001-2002
2146-OPRM-1001-1006
2141-OPRM-1001-1008
2141-OPRM-2001-2002
2146-ORGM-1001-1046
2146-INTM-1001-1002
2146-INTM-2001-2032
2147-OPRM-1001-1008
2147-OPRM-2001-2002
2147-ORGM-1001-1015
2147-ORGM-2001-2007
2147-INTM-2001-2039
2110-TECH-2004

REFERENCES:

1. MCWP 4-1, Logistics Operations
2. MCWP 4-11, Tactical Level Logistics

21XX-CSSO-3007* CONDUCT RECOVERY OF ORDNANCE WEAPONS SYSTEMS AND EQUIPMENT

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2131, 2141, 2146, 2147

GRADE: PVT-GySgt

DESCRIPTION:
On order, conduct battle damage assessment and repair or recovery of unserviceable/inoperative ordnance weapon systems and equipment

CONDITION:
Provided required recovery assets and a variety of forward located unserviceable ordnance equipment.

STANDARD:
Ensure that unserviceable/inoperative ordnance weapons systems and equipment are recovered, in order to enable the repair and return of serviceable ordnance assets to forward elements.

EVENT COMPONENTS:
1. Assess the situation.
2. Establish communications with supported units.
3. Establish communications with recovery teams.
4. Establish collection points.
5. Identify required equipment and personnel.
6. Conduct route reconnaissance.
7. Operate recovery equipment.
8. Provide necessary documentation to equipment owner.
9. Conduct battle damage assessment.
10. Conduct repair.

RELATED ITS:
2102-ADMN-2007
2110-ADMN-2020
2149-TECH-2001

REFERENCES:
1. FMFRP 4-34, Battle Field Damage Assessment Report
2. TI 8005-25/12, Maintenance Sub-Merged Ordnance Combat Vehicle

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21XX-CSSO-3008* CONDUCT EVACUATION OF ORDNANCE WEAPONS SYSTEMS AND EQUIPMENT

EVALUATION CODED: Yes SUPPORTED MET(S): 1

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Pvt-Capt

DESCRIPTION:
Conduct evacuation of unserviceable/inoperative ordnance systems and equipment to supporting CSSE to enable the repair and return of serviceable ordnance assets to forward elements.

CONDITION:
Provided required recovery assets and forward located unserviceable ordnance equipment.

STANDARD:
Identify and conduct recovery procedures to evacuate forward located ordnance equipment to appropriate maintenance collection areas IAW the references.

EVENT COMPONENTS:

1. Identify supporting activities.
2. Identify and make liaison with any supporting civilian agencies (DHL, FedEx, Host Nation trucking, etc).
3. Establish and maintain communications with supporting activities.
4. Establish method(s) of evacuation to supporting activities.
5. Identify equipment requiring evacuation.
6. Identify personnel and equipment required.
7. Coordinate with external activities for support (air, sea, heavy lift).
8. Request/Coordinate contact team support.
9. Arrange for replacement/return of evacuated equipment.
10. Replace via Class VII, redistribute, etc).
11. Ensure required documentation/receipts are completed and retained.

RELATED ITS:
2110-ADMN-2001-2020
2120-ADMN-2001-2020
2125-ADMN-2001-2020
2141-ORGM-1001-2008
2141-INTM-2001-2039
2146-ORGM-1001-1046
2146-INTM-1001-2031
2146-ADMN-2001-2005
2147-ADMN-2001-2002
2147-ADMN-2004-2005
2147-ORGM-1001-2015
2149-ADMN-2001-2017
2171-INTM-1001-2007
2181-ADMN-2001-2022

REFERENCES:

1. MCO 5530.13, Physical Security of Arms, Ammunition, & Explosives

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MET #2: ENSURE PHYSICAL SECURITY FOR GROUND ORDNANCE WEAPONS/EQUIPMENT

21XX-SEC-3001* EMPLOY ORGANIC CREW-SERVED WEAPONS

EVALUATION CODED: Yes SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2110, 2111, 2120, 2131, 2141, 2146, 2147, 2149, 2171, 2181

GRADE: Pvt-Wo

DESCRIPTION:
Employ, emplace and coordinate crew-served weapons as mission and tactical situations require.

CONDITION:
Provided organic crew-served weapons, personnel and tactical scenario.

STANDARD:
Employ crew-served weapons to provide adequate fire support to CSS elements.

EVENT COMPONENTS:

1. Assign crew-served weapons teams
2. Assign sectors of fire, PDF's and FPF's
3. Create range cards and fire plans
4. Emplace crew served weapons
5. Identify required equipment for vehicle mounting
6. Employ vehicle mounted crew served weapons
7. Incorporate crew served weapons in RAS plan
8. Perform required PM and function checks

SUPPORT REQUIREMENTS:

Weapon and Ammunition:

Weapon: M2 .50 cal heavy machinegun
A576 CTG, CAL .50, 4&1 LINKED, F/M2 200 per weapon
Weapon: M240G 7.62mm medium machinegun
A151 CTG, 7.62MM, LINK F/OVRHD FIRE 200 per weapon
Weapon: MK19 40mm grenade machinegun
DODIC Quantity
B542 CTG, 40mm, LINKED, HE DP F/MK19 4 each

RELATED ITS:
2102-ADMN-2003
2102-ADMN-2007

REFERENCES:

1. FMFM 2-6, MAGTF Rear Area Operations
2. FMFM-6, Ground Combat Operations
3. MCDP 1-3, Tactics

21XX-SEC-3002* MANAGE DEADLY FORCE PROCEDURES PROGRAM

EVALUATION CODED: Yes SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 1 month

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2149, 2181

GRADE: Sgt-LtCol

DESCRIPTION:

Develop/Maintain a program that trains personnel in the proper application of deadly force procedures to ensure the unit can establish a guard/reaction force sufficient to stand off a potential threat equal to the level of security needed, and can properly enforce deadly force procedures.

CONDITION:
Given appropriate resources, equipment, and personnel.

STANDARD:
Protect sensitive government property and prevent the inappropriate use of deadly force by guard personnel.

EVENT COMPONENTS:

1. Conduct deadly force briefs.

2. Conduct deadly force training.
3. Obtain equipment to train individuals/units.
4. Conduct testing of the levels of deadly force.
5. Identify the level of classification of security material being protected.
6. Understand Rules of Engagement if applicable.

SUPPORT REQUIREMENTS:

Range/Training Area:	Facility Code 17530 Record Fire Range Non-Automated Facility Code 17570 Pistol Known Distance (KD) Range Facility Code 17550 Rifle Known Distance (KD) Range Facility Code 17320 Training Aids Center
Equipment:	782 gear Flak jacket Kevlar Individual weapon system/crew-serve weapon system Note taking gear Appropriate uniform

RELATED ITS:
2102-ADMN-2008
2110-ADMN-2019
2125-ADMN-2015

REFERENCES:
1. MCO 5500.6F, Arming of Security and Law Enforcement Personnel and the Use of Force

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21XX-SEC-3003 MANAGE PHYSICAL SECURITY PROCEDURES FOR AN ARMORY

EVALUATION CODED: No SUPPORTED MET(S): 2

BILLET/MOS: 21102, 2110, 2111, 2120, 2125, 2149, 2181

GRADE: Sgt-LtCol

SUSTAINMENT INTERVAL: 1 month

DESCRIPTION:
Provide physical security for arms during the standard business day and during field exercises; ensure adequate security is in place when the armory is closed.

CONDITION:
Given resources, equipment, facilities, and personnel.

STANDARD:
Prevent physical loss of arms and ammunition

EVENT COMPONENTS:
1. Appoint armory guard/duty.

2. Maintain security ammunition.
3. Coordinate reactionary training drills.
4. Coordinate with MPs to ensure IDS systems are working properly.

RELATED ITS:
2102-ADMN-2008
2110-ADMN-2019
2111-ADMN-1004
2111-ADMN-1006
2111-SEC-1001-1004
2120-ADMN-2007
2120-ADMN-2010
2120-ADMN-2019
2125-ADMN-2019
2171-ADMN-2005
2181-ADMN-2019

REFERENCES:
1. MCO 5500.6, Arming of Security and Law Enforcement Personnel and the Use of Force
2. MCO P4400.150, Consumer Level Supply Policy Manual
3. MCO P5530.14, Marine Corps Physical Security Program Manual
4. OPNAVINST 5530.13, Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (Aa&E). ...
5. TM 4700-15/1, Ground Equipment Record Procedures Manual
6. Current ALMARS
7. Current MARADMINS
8. MCO 4340.1, Reporting Missing, Lost, Stolen, or Recovered Government Property
9. MCO 8300.1, USMC Serial CNTL SM Arms System

21XX-SEC-3004 MANAGE THE ACCOUNTABILITY OF ARMS

EVALUATION CODED: No SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 1 months

BILLET/MOS: 2111, 2149, 2171, 2181

GRADE: Pvt-LtCol

DESCRIPTION:
Conduct inventories as required and provide guidance to the commander, S4 and Supply personnel on specific arms accountability procedures as outlined in the directives

CONDITION:
Given the applicable resources, manage the physical security of all small arms

STANDARD:
Maintain 100% weapons accountability at all times and provide an accurate audit trail of all arms transactions.

EVENT COMPONENTS:
1. Conduct daily sight counts (open/close).

2. Coordinate with Supply/S4 to ensure that required monthly-serialized inventories are being conducted by disinterested 3rd parties.
3. Coordinate with Supply to ensure CRANE reporting is being conducted.

SUPPORT REQUIREMENTS:
Rooms/Buildings: Armory

RELATED ITS:
2102-ADMN-2008-2009
2125-ADMN-2019
2181-ADMN-2019

REFERENCES:
1. MCO 4610.15, Shipment of Military Equipment, Explosives and other Dangerous Articles
2. OPNAVINST 5530.13, Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (Aa&E). ...

21XX-SEC-3005* MANAGE THE ACCOUNTABILITY OF AMMUNITION AND EXPLOSIVES

EVALUATION CODED: Yes SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2120, 2149, 2181

GRADE: Cpl-LtCol

DESCRIPTION:
Develop/Maintain a program that accounts for all Ammunition and Explosive (A&E) items within the unit

CONDITION:
Given security ammunition and emergency explosives, an armory, and appropriate references

STANDARD:
Account for, properly store, issue, and maintain all A&E assets.

EVENT COMPONENTS:
1. Coordinate ammo expenditure reports.
2. Identify the procedures for tracking security ammunition through an active, traceable audit trail.
3. Manage ammo-handling procedures.
4. Manage AA&E screening and qualification program.
5. Manage security ammunition.
6. Evaluate armory facility/storage area for compliance with physical security references.
7. Identify requirements for transportation and storage of AA&E.
8. Identify procedures for reporting MLSR.

RELATED ITS:
2102-ADMN-2008
2181-ADMN-2019

REFERENCES:

1. MCO 4610.15, Shipment of Military Equipment, Explosives and other Dangerous Articles
2. OPNAVINST 5530.13, Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (Aa&E). ...

21XX-SEC-3006* CONDUCT REAR AREA SECURITY OPERATIONS

EVALUATION CODED: Yes SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Pvt-LtCol

DESCRIPTION:
Plan and conduct rear area security operations IAW threat level to detect and counter enemy actions while maintaining CSS operations.

CONDITION:
Provided training area, tactical scenario, equipment and personnel.

STANDARD:
Provide adequate rear area security for CSS area commensurate with threat level.

EVENT COMPONENTS:
1. Estimate enemy situation (SALUTE)
2. Estimate situation
3. Assign & place automatic weapons
4. Construct barriers and fortifications
5. Assign security roles to personnel
6. Identify reactionary force roles
7. Rehearse immediate action drills
8. Conduct security patrols
9. Coordinate supporting arms
10. Establish communications; internal and supporting
11. Establish entry control point(s)
12. Assign sectors of fire.
13. Build bunkers

RELATED ITS:
2125-ADMN-2001
2141-OPRM-1001
2141-OPRM-1003
2141-OPRM-1005

REFERENCES:
1. FMFM 2-6, MAGTF Rear Area Operations
2. FMFM-6, Ground Combat Operations
3. MCDP 1-3, Tactics

21XX-SEC-3007* CONDUCT SQUAD/PLATOON LEVEL PATROLLING IN SUPPORT OF REAR

AREA SECURITY OPERATIONS

EVALUATION CODED: Yes SUPPORTED MET(S): 2

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Pvt-LtCol

DESCRIPTION:
Plan and conduct squad/platoon level patrols IAW threat level to detect and counter enemy actions while maintaining ordnance maintenance operator operations.

CONDITION:
Provided training area, tactical scenario, equipment and personnel.

STANDARD:
Provide squad/platoon patrols in support of rear area security for CSS area commensurate with threat level.

EVENT COMPONENTS:
1. Assign patrol routes.
2. Train personnel.
3. Conduct rehearsals.
4. Establish communication and signals (w/Comm).
5. Establish communication and signals (no Comm).
6. Coordinate supporting fires.
7. Establish med-evac procedures.
8. Identify rules of engagement.
9. ID procedures to re-enter friendly lines (normal and emergency).

RELATED ITS:
2102-ADMN-2008-2009
2125-TECH-2001
2141-OPRM-1001
2141-OPRM-1003
2141-OPRM-1005
2141-OPRM-1007-1010

REFERENCES:
1. MCWP 3-11.3, Scouting and Patrolling
2. FMFM 6-5, Marine Rifle Squad

MET #3: PERFORM GROUND ORDNANCE MAINTENANCE ADMIN FUNCTIONS

21XX-ADMN-5001 DRAFT/REVIEW ORDNANCE POLICIES, DIRECTIVES, REGULATIONS AND LOGISTICS APPENDICES

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Draft/Review written policies, directives, regulations, and logistics appendices in support of supported unit maintenance operations in order to provide clarification, standard operating procedures and any amplifying instructions.

CONDITION:
Given Marine Corps Orders and Directives, Unit Standard Operating Procedures, Naval Instructions, Department of Defense Publications, and equipment Technical Publications.

STANDARD:
provide supported elements with necessary instruction on maintenance support of ordnance weapons systems and equipment

EVENT COMPONENTS:
1. Review orders and directives.
2. Coordinate with supply.
3. Establish shop policy.
4. Assign personnel.
5. Coordinate with individual section and validate drafts.
6. Provide guidance to commander's in support of ordnance maintenance operations and physical security functions.

RELATED ITS:
2102-ADMN-2001-2009
2110-ADMN-2001-2020
2120-ADMN-2001-2017
2125-ADMN-2001-2020
2131-ADMN-1004
2131-ADMN-1005
2149-ADMN-2001-2018
2181-ADMN-2001-2022

REFERENCES:
1. MCO P5215.1, USMC Directives System
2. MCO P5215.17, The Marine Corps Technical Publiscations System
3. MCO P5600.31, Marine Corps Publication Printing Regulations
4. SL 1-2, Index of Authorized Publications for Equipment Support
5. SL 1-3, Index of Authorized Publications for Equipment Support
6. UM-MCPDS, Marine Corps Publications Distribution System
7. UM-PLMS, Publication Library Management System
8. MCPEL CD, Marine Corps Publications Electronic Library
9. SECNAVINST 5210.11, Naval Correspondence
10. SECNAVINST 5214.10, Naval Correspondence
11. SECNAVINST 5216.5, Department of the Navy Correspondence Manual

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21XX-ADMN-5002* COORDINATE ASSIGNMENT OF ORDNANCE PERSONNEL

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Review unit T/Os and/or operation orders, assign 21xx personnel to specific billets/assignments in support of assigned operations. Coordinate with the 21xx occupational field sponsor and monitor to assist in filling personnel shortfalls.

CONDITION:
Given a unit T/O, mission orders, and access to personnel monitors/sponsors.

STANDARD:
To ensure key ordnance maintenance personnel are available to support unit missions.

EVENT COMPONENTS:
1. View units mission statement.
2. View supported units T/O and T/E.
3. View supporting units mission statement.
4. Access TFS.
5. Track inbound and outbound personnel.
6. Maintain a lists of key billets for specific operations.
7. Validate the T/O.
8. Review the mission statement.
9. Review op order.
10. Submit Table of Organization Change Requests, as required.

CHAINED EVENTS:
21XX-ADMN-3001

SUPPORT REQUIREMENTS:
Other Units/Personnel

RELATED ITS:
2102-ADMN-2001
2102-ADMN-2003

REFERENCES:
1. DLA Handbook
2. MCDP 4, Logistics
3. MCO 4733.1, Marine Corps Test, Measurement and Diagnostic Equipment Calibrations and Maintenance Program
4. MCO P4400.150, Consumer Level Supply Policy Manual
5. MCO P4790.1, MIMMS Introduction Manual
6. MCO P4790.2, MIMMS Field Manual
7. MCWP 4-11, Tactical–Level Logistics
8. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-5003 CONDUCT COMMAND INSPECTIONS/PROGRAMS TO ENHANCE EQUIPMENT/UNIT READINESS

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION: Coordinate and conduct command inspections/programs

CONDITION: Given orders, directives, policies, and logistic appendices

STANDARD:
Evaluate unit readiness, efficiencies and compliance with established Marine Corps policies and directives.

EVENT COMPONENTS:
1. Review orders and directives governing maintenance programs.
2. Inspect for serviceability of ordnance weapons systems and equipment.
3. Inspect unit publications control program.
4. Inspect unit modification control program.
5. Inspect unit maintenance control programs.
6. Inspect unit support equipment and TMDE tool control program.

RELATED ITS:
2141-OPRM-1001-1005
2146-ADMN-2001-2005
2147-ORGM-1001-1005

REFERENCE:
1. Marine Corps Logistics Chain Analysis Team (MCLCAT) Checklist

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21XX-ADMN-5004* COORDINATE THE ACQUISITION OF EQUIPMENT SHORTFALLS

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 3 months

BILLET/MOS: 2102, 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Validate the T/O&E and operation equipment density list (EDL) to determine equipment shortfalls for SAC 1, 2, 3 TAMCNs and reconcile with supply and HHQ to acquire deficiencies.

CONDITION:
Given a T/O&E and EDL for a specific operation for supporting and supported units.

STANDARD:
Requisition equipment deficiencies needed to support the unit's mission.

EVENT COMPONENTS:
1. Review higher HQ capabilities.
2. Review T/O and T/E.

3. Review unit CMR.
4. Review unit EDL.
5. Review op order.
6. Review mission statement from T/O.

CHAINED EVENTS:

21XX-ADMN-5003

21XX-ADMN-5004

21XX-ADMN-4002

RELATED ITS:
2102-ADMN-2001
2102-ADMN-2003
2102-ADMN-2007
2110-ADMN-2010

REFERENCES:
1. DLA Handbook
2. MCDP 4, Logistics
3. MCO 4733.1, Marine Corps Test, Measurement and Diagnostic Equipment Calibrations and Maintenance Program
4. MCO P4400.150, Consumer Level Supply Policy Manual
5. MCO P4790.1, MIMMS Introduction Manual
6. MCO P4790.2, MIMMS Field Procedures Manual
7. MCWP 4-11, Tactical–Level Logistics
8. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4001 ESTABLISH PROCEDURES FOR THE SECURITY OF WEAPONS, TOOLS AND EQUIPMENT

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 24 months

BILLET/MOS: 2110, 2120, 2125, 2149, 2181

GRADE: MSgt-LtCol

DESCRIPTION:
Establish procedures to maintain accountability and control of weapons, tools and equipment.

CONDITION:
Provided a CSS site, weapons, tools and various maintenance equipment.

STANDARD:
Ensure that weapons and equipment are issued, retrieved and accounted for during all phases of the operation.

EVENT COMPONENTS:
1. Identify security levels required by equipment type
2. Identify security personnel
3. Establish CSS security
4. Establish accountability procedures for equipment (equipment logs, ECR's, individual CMR's)

5. Establish armory facility
6. Assign equipment to authorized personnel

RELATED ITS:
2110-TECH-2004
2111-SEC-1001-1004
2171-ADMN-2005
2102-ADMN-2008
2110-ADMN-2019
2120-ADMN-2019
2125-ADMN-2019
2181-ADMN-2019

REFERENCES:
1. MCO 5530.13, Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (Aa&E). ...

21XX-ADMN-4002* IDENTIFY REPAIR PARTS REQUIREMENTS

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: GySgt-LtCol

DESCRIPTION:
Identify, procure, document and utilize required repair parts and secondary repairable items in support of unit operations.

CONDITION:
Given an operational order, EDL, Table of Equipment, assigned equipment and personnel, past mission historical data, after action reports, and required publications.

STANDARD:
To enable the timely repair of forward deployed ordnance weapons systems and equipment in support of unit operations.

EVENT COMPONENTS:
1. Review historical data and Class IX consumable and repairable parts.
2. Based on the operation and equipment density list, determine appropriate class IX quantities.
3. Review after action reports to highlight previous mission problem areas.

CHAINED EVENTS:
21XX-ADMN-4003
21XX-ADMN-3001

RELATED ITS:
2102-ADMN-2007
2120-ADMN-2007

2120-ADMN-2012
2149-ADMN-2005
2161-ADMN-2002
2181-ADMN-2017

REFERENCES:
1. DLA Handbook
2. MCDP 4, Logistics
3. MCO 4733.1, Marine Corps Test, Measurement and Diagnostic Equipment Calibrations and Maintenance Program
4. MCO P4400.150, Consumer Level Supply Policy Manual
5. MCO P4790.1, MIMMS Introduction Manual
6. MCO P4790.2, MIMMS Field Procedures Manual
7. MCWP 4-11, Tactical–Level Logistics
8. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4003* COORDINATE THE REQUISITION AND DISTRIBUTION OF REPAIR PARTS

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: GySgt-LtCol

DESCRIPTION:
Coordinate with the unit MMO and Supply to comply with requisition procedures for repair parts and ensure that personnel are familiar with those procedures. Once parts are received, coordinate the distribution of those parts to the mechanic that can complete the repairs.

CONDITION:
Given a mission statement, T/O&E, and operations order,

STANDARD:
To ensure requisitions are processed IAW operations order and that once requisitions are received, they are applied to the appropriate equipment.

EVENT COMPONENTS:
1. Consider units to be supported
2. Establish supply module
3. Set up layette bins
4. Consider terrain
5. Coordinate with MMO to establish commodity representatives
6. Administration (MIMMS)

RELATED ITS:
2120-ADMN-2007
2120-ADMN-2012
2149-ADMN-2005
2181-ADMN-2017

REFERENCES:

1. DLA Handbook
2. MCDP 4, Logistics
3. MCO 4733.1, Marine Corps Test, Measurement and Diagnostic Equipment Calibrations and Maintenance Program
4. MCO P4400.150, Consumer Level Supply Policy Manual
5. MCO P4790.1, MIMMS Introduction Manual
6. MCO P4790.2, MIMMS Field Procedures Manual
7. MCWP 4-11, Tactical–Level Logistics
8. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4004 MANAGE RADIOLOGICAL PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 18 months

BILLET/MOS: 2111, 2112, 2131, 2141, 2146, 2147, 2171

GRADE: GySgt-LtCol

DESCRIPTION:
Identify the proper care, handling, disposal, and reporting procedures for items containing radiological materials.

CONDITION:
Given appropriate references and equipment containing radiological materials

STANDARD:
To minimize the effects of radiological exposure from the misuse/handling of items containing radiological materials and to comply with current reporting requirements of radiological equipment references.

EVENT COMPONENTS:
1. Review unit T/E to identify TAM items which contain radioactive materials.
2. Review appropriate references for proper handling and disposal.
3. Follow applicable reporting procedures.

RELATED ITS:
2111-ADMN-1001

REFERENCE:
1. MCO 5104.3, Marine Corps Radiation Safety Program

21XX-ADMN-4005 MANAGE A MODIFICATION CONTROL PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Cpl-Capt

DESCRIPTION:
Develop and manage a modifications control program based off the units T/E.

CONDITION:
Given unit T/E, SL-1/2, and PLMS, reference all TAM numbers that require a modification according to the SL-1/2. Verify all required mods have been properly completed and recorded. Review units publications library to ensure all required MI's are on hand.

STANDARD:
Apply required modifications, document modification actions and ensure equipment operates according to the modification applications.

EVENT COMPONENTS:
1. Review unit T/E to determine equipment within a unit.
2. Review SL-1-2 to determine which mods are needed per each TAM item within that unit.
3. Review Publications library to ensure all applicable MI's are on hand.
4. Verify that all modifications required per each TAM item, are either Completed or on order.
5. Ensure that Modifications control forms are properly completed.
6. Ensure all records are properly filed

RELATED ITS:
2110-ADMN-2013
2120-ADMN-2013
2125-ADMN-2013
2141-ORGM-2007
2149-ADMN-2012
2181-ADMN-2012

REFERENCES:
1. Applicable MI, Applicable Equipment Modification Instruction
2. MCO P4790.2, MIMMS Field Procedures Manual
3. MIL-HDBK-61A(SE), Configuration Management Guidance
4. MIL-STD-2549, DOD Configuration Management
5. SL-1-2, Index of Authorized Publications for Equipment Support
6. TI 5600-15/7, Publication Information Marine Corps Equipment
7. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4006* MANAGE CALIBRATION AND TOOL CONTROL PROGRAM

EVALUATION CODED: Yes SUPPORTED MET(S):3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Cpl-Capt

DESCRIPTION:
Identify all Test Measuring and Diagnostic Equipment (TMDE) requiring calibrations, submit assets for calibration, and conduct management of the program for future requirements. Implement procedures that reduce the threat

of fraud, waste and abuse. Ensure proper use of support equipment for organic assets.

CONDITION:
Given organic tools, equipment, TMDE and applicable references

STANDARD:
Ensure equipment is maintained in accordance with guidelines established for the management of support equipment and TMDE

EVENT COMPONENTS:

1. Validate T/E to determine equipment requirements
2. Itendify equipment requiring calibration
3. Implement tool control procedures

RELATED ITS:
2102-TECH-2001
2141-OPRM-2002
2146-ORGM-1001
2146-INTM-2032
2147-OPRM-1005
2171-ADMN-2001

REFERENCES:
1. MCO 4733.1, Marine Corps Test, Measurement and Diagnostic Equipment Calibrations and Maintenance Program
2. TI 4733-15/11, Infantry Weapons Guage Calibration Exchange Program
3. TI 4733-15/1_, Calibration Requirements Marine Corps TMDE Calibration and Maintenance program

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21XX-ADMN-4007 MANAGE MILITARY OCCUPATIONAL SPECIALTY (MOS) TRAINING PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Cpl-Capt

DESCRIPTION:
Develop and manage an MOS training program IAW unit’s mission, T/O, ITSs, collective events, and directives that provide procedures and guidance for establishing and conducting MOS training in support of unit operations.

CONDITION:
Given a unit T/O, unit METs, ITS's, and personnel of Ground Ordnance Maintenance MOSs

STANDARD:
Ensure properly trained personnel are available to perform assigned missions.

EVENT COMPONENTS:

1. Determine maintenance capability by reviewing T/O&E mission statements.
2. Identify individual MOSs by reviewing unit T/O.
3. Extract ITSs for each particular MOS within unit.
4. Develop training plan to accommodate unit's METs.
5. Train individuals.

SUPPORT REQUIREMENTS:
Equipment: Binders and shelves.
Other: Access to T/O&E, current PLMS.

RELATED ITS:
2102-ADMN-2014
2110-ADMN-2005
2120-ADMN-2005
2125-ADMN-2005
2149-ADMN-2004
2181-ADMN-2004

REFERENCES:
1. MCO 1510 Series, Individual Training Standards for all MOS
2. MCO 1553.3, Marine Corps Unit Training Management
3. MCO P4790.2, MIMMS Field Procedures Manual
4. MCRP3-0A, Unit Training Management
5. MCRP 3-0B, How to Conduct Training

21XX-ADMN-4008* MANAGE PUBLICATION CONTROL PROGRAM

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: Cpl-Capt

DESCRIPTION:
Provide a publications library to research information required to support maintenance actions.

CONDITION:
Given a unit T/E, unit mission requirements, and access to PLMS.

STANDARD:
The library should be capable of rapid deployment and contain TMs, TIs, MIs, SIs, SLs, and other pertinent directives as required by unit missions and in accordance with criteria outlined in MCO P4790.2_.

EVENT COMPONENTS:
1. Review Unit T/E.
2. Identify required publications by reviewing SL-1-2/SL-1-3.
3. Review publications library to assure that all publications and changes are needed and required.
4. Request and validate publications that are required.

5. Implement changes and organize library IAW references.

RELATED ITS:
2111-ADMN-1006
2131-ADMN-1005
2149-ADMN-2010
2171-ADMN-2001
2181-ADMN-2003

REFERENCES:
1. MCO P4790.2_, MIMMS Field Procedures Manual
2. MCO P5215.1, USMC Directives System
3. MCO P5215.17, The Marine Corps Technical Publiscations System
4. MCO P5600.31, Marine Corps Publication Printing Regulations
5. SL 1-2, Index of Authorized Publications for Equipment Support
6. SL 1-3, Index of Authorized Publications for Equipment Support
7. UM-MCPDS, Marine Corps Publications Distribution System
8. UM-PLMS, Publication Library Management System
9. MCPEL CD, Marine Corps Publications Electronic Library

21XX-ADMN-4009 MANAGE UNIT OIL ANALYSIS PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2120, 2141, 2146, 2147, 2149, 2181

GRADE: Cpl-WO

DESCRIPTION:
Identify all ordnance equipment that qualifies for placement in the Joint Oil Analysis Program (JOAP), assign those assets to the program, and manage the program in support of unit missions.

CONDITION:
Given appropriate references and access to the unit T/E, CMR, and JOAP references.

STANDARD:
Prevent catastrophic engine failures through oil analysis and reduce the long-term maintenance cost of ordnance vehicles.

EVENT COMPONENTS:
1. Identify items requiring induction into JOAP by reviewing unit T/E and appropriate references.
2. Conduct oil sampling per the references.
3. Record and maintain records for JOAP per the references.
4. Identify shipping and handling procedures for JOAP per the references.
5. Take appropriate action based on sampling analysis.

RELATED ITS:
2110-TECH-2006
2120-ADMN-2012
2141-OPRM-1001

2141-ORGM-1004
2141-ORGM-1005
2146-ORGM-1002
2146-ORGM-1032
2147-OPRM-1006
2149-TECH-2003

REFERENCES:
1. MCO 4731.1, Oil Analysis Program for Ground Equipment
2. TI 4731-14/1C, The U.S. Marine Corps Oil Analysis Program
3. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4010 MANAGE UNIT ADMINISTRATIVE STORAGE PROGRAM TO SUPPORT LONG TERM EQUIPMENT READINESS.

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2110, 2120, 2125, 2149, 2181

GRADE: Cpl-Capt

DESCRIPTION:
Place designated equipment into administrative storage programs as required and manage the scheduling of maintenance tasks required for items in the program

CONDITION:
Given applicable references, commander's intent, appropriate storage facility, and equipment designated for administrative storage

STANDARD:
Provide mission capable ordnance equipment in support of long-term equipment readiness

EVENT COMPONENTS:
1. Establish/Review/Update local SOPs regarding the Administrative Storage Program.
2. Identify procedures to induct equipment into the Administrative Storage Program.
3. Induct equipment into the Administrative Storage Program.
4. Identify, update and properly code Administrative Storage Candidates.
5. Ensure Items inducted into the Administrative Storage Program do not exceed timelines in accordance with the references.

RELATED ITS:
2111-ADMN-1002
2111-SEC-1003
2131-ADMN-1004
2141-OPRM-1004
2141-ORGM-2006
2146-ADMN-2002

REFERENCE:
1. MCO P4790.2, MIMMS Field Procedures Manual

21XX-ADMN-4011 MANAGE LICENSING PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2120, 2141, 2146, 2147, 2149, 2181

GRADE: Sgt-Capt

DESCRIPTION:
Develop and manage a Licensing Program to properly log, examine, and certify ordnance vehicle operators in the performance of their duties. Identify individuals that need Ordnance Vehicle operators Licenses and develop a program to effectively train, test and track individuals.

CONDITION:
Given applicable references, personnel requiring licensing, and specific ordnance vehicles.

STANDARD:
Accurately develop and manage a Licensing Program to accommodate unit requirements.

EVENT COMPONENTS:
1. Review T/O and T/E to determine equipment that requires licensed operators.
2. Assign licensing officer/SNCO and test examiners.
3. Log and maintain records of individuals licensed.
4. Provide written testing and operator training.

RELATED ITS:
2110-TECH-2005
2141-OPRM-1003
2146-OPRM-1001
2147-OPRM-1002

REFERENCES:
1. MCO 8400.6, Licensing Procedures for Ordnance Vehicle Operations
2. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4012 MANAGE LOAD TESTING PROGRAM IN SUPPORT OF MAINTENANCE AND SAFETY PROGRAMS

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2120, 2141, 2146, 2147, 2149, 2181

GRADE: Sgt-Capt

DESCRIPTION:

Develop and manage a load-testing program to accommodate a specific unit by identifying equipment requiring load-testing certification.

CONDITION:
Given a unit T/E, CMR, and appropriate references,

STANDARD:
Reduce the risk of load lifting/bearing hazards in the work place and comply with current directives.

EVENT COMPONENTS:
1. Identify the references and components for a load-testing program.
2. Identify frequencies for load testing equipment.
3. Inspect, record, and maintain record jackets and documents.
4. Identify equipment required to be load tested.
5. Conduct an annual load test certification.

RELATED ITS:
2110-ADMN-2015
2141-ORGM-1002
2141-ORGM-2001
2146-OPRM-1004
2146-ORGM-1020
2146-ORGM-1045
2147-ORGM-2009
2147-ORGM-2011

REFERENCES:
1. MCO P11262.2, Inspection, Testing and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.2, MIMMS Field Procedures Manual
3. NAVFAC P307, Management of Weight Handling Equipment
4. TM 4700-15/1, Ground Equipment Record Procedures Manual

21XX-ADMN-4013 MANAGE LASER PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2111, 2120, 2125, 2171, 2181

GRADE: Sgt-Capt

DESCRIPTION:
Develop and manage a Laser safety program in support of unit operations

CONDITION:
Given a unit T/E and appropriate references,

STANDARD:
Reduce the threat of Laser injuries in the workplace.

EVENT COMPONENTS:
1. Review unit T/E and identify all equipment within a particular unit

containing Lasers
2. Identify classifications of lasers within a unit
3. Identify equipment markings to determine if equipment contains a laser or is a potential radiation safety hazard
4. Identify laser/radiation safety references
5. Identify the procedures to respond to a laser injury or a radiological incident

RELATED ITS:
2171-INTM-1008-1009

REFERENCES:
1. ANSI Z136.1, Laser Safety Standards
2. MCO 5104.1A, Military Exempt Laser Inventory
3. MCO 5104.3, Marine Corps Radiation Safety Program
4. MCO P4790.2, MIMMS Field Procedures Manual
5. TI 5104-15/2, Special Handling of Tritium Fire Control

21XX-ADMN-4014 MANAGE SHOP SAFETY PROGRAM

EVALUATION CODED: No SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 12 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: PVT-Capt

DESCRIPTION:
Ensure compliance with published safety orders and directives in developing and maintaining maintenance operations in support of unit missions.

CONDITION:
Given a work environment, personnel and equipment, and appropriate references

STANDARD:
Reduce and/or eliminate the risk of injury to maintenance personnel while performing required unit missions.

EVENT COMPONENTS:
1. Identify that a units particular needs (Hardhats, Safety Boots, Safety Goggles, MSDS's etc.) are met.
2. Ensure references and resources/protective equipment are available to personnel.
3. Implement ORM into unit's daily routine. (ORM charts posted in work spaces)
4. Provide required training

RELATED ITS:
2110-ADMN-2015
2111-ADMN-1002
2120-ADMN-2015
2125-ADMN-2015
2131-ADMN-1001

2149-ADMN-2014
2161-ADMN-1001
2171-ELEC-1001
2181-ADMN-2014

REFERENCES:

1. 29CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. Current ALMARS
3. Current MARADMINS
4. MCO 5100.19_, Marine Corps Drive Safe Order
5. MCO 5100.29, Marine Corps Safety Program
6. MCO 5100.30_, Marine Corps Order on Off-duty/Rec Safety
7. MCO 6260.1_, Marine Corps Hearing Conservation Order
8. MCO P4790.2, MIMMS Field Manual
9. MCO P5100.8_, Marine Corps Occupational Safety and Health Program Manual
10. MCO P5102.1, Marine Corps Ground Mishap Investigation and Reporting Manual
11. NAVMC 2692, Unit Safety program Management Manual

21XX-ADMN-3001* PERFORM ADMINISTRATIVE FUNCTIONS IN SUPPORT OF MAINTENANCE PROGRAMS

EVALUATION CODED: Yes SUPPORTED MET(S): 3

SUSTAINMENT INTERVAL: 6 months

BILLET/MOS: 2102, 2110, 2111, 2112, 2120, 2125, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADE: PVT-LtCol

DESCRIPTION:
Coordinate assignment of ordnance equipment to specific maintenance programs and complete forms as required to document support actions.

CONDITION:
Provided with ordnance equipment and applicable resources, maintenance program references, SOPs, and commander's intent

STANDARD:
To ensure long-term supportability of ordnance weapons systems and equipment

EVENT COMPONENTS:

1. Joint Oil Analysis Program (JOAP)
2. Corrosion Prevention and Control (CPAC) Program
3. Physical security program
4. Safety program
5. Hazardous materials/Waste programs
6. Layettes management
7. PM/CM programs
8. Demilitarization programs
9. New equipment fielding programs

10. Embark programs
11. Support equipment and TMDE programs
12. Related programs (PQDR, SDR RODS, 10772, ETC.)
13. Load testing programs
14. Publication control
15. Armory procedures
16. Maintenance training

CHAINED EVENTS:

21XX-ADMN-5003

21XX-ADMN-5004

RELATED ITS:

2102-ADMN-2001-2018
2110-ADMN-2001-2020
2111-ADMN-1001-1002
2111-ADMN-1006-1007
2111-OPRM-1001
2111-SEC-1003
2112-TEST-2001-2004
2120-ADMN-2001-2020
2125-ADMN-2001-2020
2131-ADMN-1001-1005
2131-ORGM-1001-1002
2141-ADMN-2001-2003
2141-ADMN-2005
2141-OPRM-1001
2141-OPRM-1004
2141-OPRM-2002
2141-ORGM-2006
2146-ADMN-2001-2002
2146-ADMN-2004
2146-INTM-2032
2146-ORGM-1001
2147-ADMN-2001-2002
2147-ADMN-2004
2147-OPRM-1005-1006
2149-ADMN-2001-2021
2161-ADMN-1001-1005
2161-ADMN-2001-2002
2171-ADMN-2001-2006
2181-ADMN-2001-2022

REFERENCES:

1. Current MARADMINS
2. MCO P4790.2, MIMMS Field Procedures Manual
3. UM 4790-5, MIMMS (AIS) FMSS

Chapter 3

Individual Training Events

INTRODUCTION

1. General. This is a summary list of all ITS events grouped by MOS and duty area.

2. Format. The columns in the index are as follows:

a. Event Code: This is a 4-4-4-character set. The first 4 characters represent the MOS, the second 4 sets represent the duty area, and the third 4 sets represent the level and sequence of the event. For a detailed explanation of the levels (1000-5000) in the T&R Manual, see Chapter 1. The event code dictates the order in which events for a given duty area is displayed in the manual.

b. Event Title: This is the name of the event.

c. Page Number: This column lists the number of the page that contains detailed information for this event.

3. Within the T&R Manual MOSs are arranged in numerical order (i.e. 2102, 2110, 2111, 2112, etc.). Within each MOS, ITS events are listed under the appropriate Duty Area by Event Code.

4. Event Composition. Below is a list of the components of an ITS event. Each event contains only the pertinent components. For a description of each item, see Chapter 1:

a. Event Code/Event Title
b. Condition
c. Standard
d. Performance Steps
e. References
f. Administrative Instruction
g. Initial Training Setting
h. Sustainment
i. Grade

INDEX

INDIVIDUAL TRAINING STANDARDS

Event Code	Event Title

MOS 2102

ORDNANCE OFFICER

DUTY AREA 01 ADMINISTRATIVE FUNCTIONS

2102-ADMN-2001	SERVE AS THE TECHNICAL ADVISOR FOR GROUND ORDNANCE EQUIPMENT
2102-ADMN-2002	PUBLISH GROUND ORDNANCE POLICIES, DIRECTIVES AND REGULATIONS
2102-ADMN-2003	PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF GROUND ORDNANCE EQUIPMENT
2102-ADMN-2004	COORDINATE THE FIELDING OF GROUND ORDNANCE EQUIPMENT
2102-ADMN-2005	DEVELOP MAINTENANCE APPENDICES FOR THE LOGISTICS ANNEX OF OPERATION ORDERS
2102-ADMN-2006	MANAGE MAINTENANCE INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT
2102-ADMN-2007	COORDINATE MAINTENANCE FOR GROUND ORDNANCE EQUIPMENT IN SUPPORT OF EXPEDITIONARY MANEUVER WARFARE
2102-ADMN-2008	MONITOR COMPLIANCE WITH PHYSICAL SECURITY PROGRAMS
2102-ADMN-2009	MANAGE AMMUNITION CONTROL PROGRAMS
2102-ADMN-2010	MONITOR GROUND ORDNANCE EQUIPMENT CORRECTIVE MAINTENANCE PROGRAMS
2102-ADMN-2011	MONITOR GROUND ORDNANCE EQUIPMENT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS
2102-ADMN-2012	MONITOR GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES
2102-ADMN-2013	MONITOR MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2102-ADMN-2014	MONITOR GROUND ORDNANCE EQUIPMENT FORMAL SCHOOL TRAINING
2102-ADMN-2015	PREPARE CORRESPONDENCE MESSAGES RELATING TO GROUND ORDNANCE EQUIPMENT
2102-ADMN-2016	REVIEW HIGHER HEADQUARTERS DIRECTIVES RELATING TO GROUND ORDNANCE EQUIPMENT
2102-ADMN-2017	ESTABLISH MAJOR SUBORDINATE COMMAND LEVEL INSPECTION PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2102-ADMN-2018	PERFORM OCCUPATIONAL SPONSOR DUTIES FOR GROUND ORDNANCE EQUIPMENT

MOS 2110

ORDNANCE VEHICLE MAINTENANCE OFFICER

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2110-ADMN-2001	MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS
2110-ADMN-2002	EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS

2110-ADMN-2003	MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES
2110-ADMN-2004	MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2005	MONITOR MAINTENANCE SHOP LEVEL MOS TRAINING PROGRAM
2110-ADMN-2006	MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2007	MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2008	MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES
2110-ADMN-2009	MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2010	MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2011	MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2012	MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2013	MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2014	MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2015	MANAGE SHOP SAFETY PROGRAM
2110-ADMN-2016	MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2017	MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS
2110-ADMN-2018	PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2019	MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2110-ADMN-2020	ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

DUTY AREA 2 TECHNICAL FUNCTIONS

2110-TECH-2001	SERVE AS THE TECHNICAL ADVISER FOR THE FAMILY OF GROUND ORDNANCE VEHICLES
2110-TECH-2002	PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF THE FAMILY OF GROUND ORDNANCE VEHICLES
2110-TECH-2003	PERFORM DUTIES AS LOAD TEST CERTIFICATION OFFICER
2110-TECH-2004	DIRECT RECOVERY OPERATIONS FOR GROUND ORDNANCE VEHICLES
2110-TECH-2005	MANAGE LICENSING PROGRAM FOR GROUND ORDNANCE VEHICLES
2110-TECH-2006	MANAGE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR GROUND ORDNANCE VEHICLES
2110-TECH-2007	MANAGE UNIT AMMUNITION CONTROL PROGRAM

MOS 2111

SMALL ARMS REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR MAINTENANCE

2111-OPRM-1001	MAINTAIN ARMORY SUPPORT EQUIPMENT

DUTY AREA 02 - MAINTAIN ARMORY SMALL ARMS AND OPTICAL DEVICES

2111-MAIN-1001	MAINTAIN M9 9MM SEMIAUTOMATIC PISTOL
2111-MAIN-1002	MAINTAIN 12 GAUGE SERIES SHOTGUNS
2111-MAIN-1003	MAINTAIN 5.56MM SERVICE RIFLE(S)
2111-MAIN-1004	MAINTAIN .50 CALIBER SPECIAL APPLICATION SCOPE RIFLE
2111-MAIN-1005	MAINTAIN M203 40MM GRENADE LAUNCHER
2111-MAIN-1006	MAINTAIN M1911A1 .45 CALIBER MEU (SOC) PISTOL
2111-MAIN-1007	MAINTAIN M249 5.56MM SQUAD AUTOMATIC WEAPON (SAW)
2111-MAIN-1008	MAINTAIN M240 SERIES 7.62MM MACHINE GUNS
2111-MAIN-1009	MAINTAIN ALL VARIANTS OF .50 CALIBER MACHINE GUN
2111-MAIN-1010	MAINTAIN MACHINE GUN MOUNTS
2111-MAIN-1011	MAINTAIN MK19 40MM MACHINE GUN VARIANTS
2111-MAIN-1012	MAINTAIN MK 153 83MM ROCKET LAUNCHER
2111-MAIN-1013	MAINTAIN M224 60MM MORTAR WITH BIPOD AND BASE PLATES
2111-MAIN-1014	MAINTAIN M252 81MM MORTAR WITH BIPOD AND BASE PLATE
2111-MAIN-1015	MAINTAIN GROUND ORDNANCE OPTICAL DEVICES
2111-MAIN-1016	MAINTAIN M40 SERIES SNIPER RIFLE
2111-MAIN-1017	MAINTAIN 7.62MM M14 DESIGNATED MARKSMAN RIFLE (DMR)
2111-MAIN-1018	MAINTAIN M82A3

DUTY AREA 03 - SECURITY FUNCTIONS

2111-SEC-1001	ENSURE WEAPON SECURITY DURING TRANSPORTATION
2111-SEC-1002	ENSURE SECURITY OF PERSONALLY OWNED WEAPONS AND AMMUNITION
2111-SEC-1003	PERFORM ARMORY PROCEDURES
2111-SEC-1004	MAINTAIN ARMORY PHYSICAL SECURITY

DUTY AREA 04 – ADMINISTRATIVE FUNCTIONS

2111-ADMN-1001	COMPLY WITH RADIOLOGICAL PROGRAM
2111-ADMN-1002	FOLLOW BASIC SHOP PROCEDURES
2111-ADMN-1003	FOLLOW BASIC MAINTENANCE PROCEDURES
2111-ADMN-1004	MAINTAIN ARMORY FUNCTIONAL AREAS
2111-ADMN-1005	MAINTAIN MAINTENANCE TRANSACTION REPORTS
2111-ADMN-1006	MAINTAIN ARMORY PUBLICATION AND DIRECTIVES PROGRAM
2111-ADMN-1007	MAINTAIN MAINTENANCE MANAGEMENT TRAINING PROGRAM
2111-ADMN-1008	MAINTAIN MAINTENANCE RECORDS AND REPORTS

MOS 2112

PRECISION WEAPONS REPAIRER

DUTY AREA 01 – OPERATING MACHINE SHOP EQUIPMENT

2112-0PRM-2001	OPERATE ARBOR PRESS
2112-0PRM-2002	OPERATE BAND SAW
2112-0PRM-2003	OPERATE BEAD BLASTER
2112-0PRM-2004	OPERATE BELT SANDER
2112-0PRM-2005	OPERATE BENCH GRINDER
2112-0PRM-2006	OPERATE DISC SANDER
2112-0PRM-2007	OPERATE DRILL PRESS
2112-0PRM-2008	OPERATE ROTARY TOOL
2112-0PRM-2009	OPERATE HEAT TREATMENT OVEN
2112-0PRM-2010	OPERATE HYDRAULIC PRESS
2112-0PRM-2011	OPERATE LATHE

2112-0PRM-2012	OPERATE MILLING MACHINE
2112-0PRM-2013	OPERATE OXYACETYLENE WELDING EQUIPMENT
2112-0PRM-2014	OPERATE POLISHING MACHINE
2112-0PRM-2015	OPERATE ROCKWELL HARDNESS TESTER
2112-0PRM-2016	OPERATE SURFACE GRINDER
2112-0PRM-2017	OPERATE PLASMA CUTTER
2112-0PRM-2018	OPERATE CHOP SAW

DUTY AREA 02 – BUILDING WEAPONS

2112-BLDG-2001	BUILD A NATIONAL MATCH M1911 .45 CALIBER PISTOL
2112-BLDG-2002	BUILD A MEUSOC M1911 .45 CALIBER PISTOL
2112-BLDG-2003	BUILD A NATIONAL MATCH M-16 SERIES 5.56MM RIFLE
2112-BLDG-2004	BUILD A M-14/DMR 7.62MM NATO RIFLE
2112-BLDG-2005	BUILD A M-40A3 SNIPER RIFLE
2112-BLDG-2006	CHEMICALLY BLACKEN STEEL
2112-BLDG-2007	PARKERIZING STEEL

DUTY AREA 02 – MAINTAINING WEAPONS

2112-MAIN-2001	MAINTAIN A NATIONAL MATCH M1911A1 .45 CALIBER PISTOL
2112-MAIN-2002	MAINTAIN A MEUSOC M1911A1 .45 CALIBER PISTOL
2112-MAIN-2003	MAINTAIN A NATIONAL MATCH M-16 SERIES 5.56MM RIFLE
2112-MAIN-2004	MAINTAIN A M-14/DMR 7.62MM NATO RIFLE
2112-MAIN-2005	MAINTAIN A M-40A3 SNIPER RIFLE
2112-MAIN-2006	MAINTAIN A M-82A3 SPECIAL APPLICATION SCOPED RIFLE (SASR)
2112-MAIN-2007	MAINTAIN MODEL 41 SMITH AND WESSON .22 CALIBER PISTOL
2112-MAIN-2008	MAINTAIN MODEL 40X REMINGTON .22 CALIBER RIFLE

DUTY AREA 03 – TESTING WEAPONS

2112-TEST-2001	TEST AMMUNITION FOR USE IN PRECISION WEAPONS

MOS 2120

WEAPONS REPAIR OFFICER

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2120-ADMN-2001	MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS
2120-ADMN-2002	EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS
2120-ADMN-2003	MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES
2120-ADMN-2004	MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2005	MONITOR MAINTENANCE SHOP LEVEL MOS TRAINING PROGRAM
2120-ADMN-2006	MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2007	MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2008	MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES
2120-ADMN-2009	MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT

2120-ADMN-2010	MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2011	MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2012	MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2013	MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2014	MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2015	MANAGE SHOP SAFETY PROGRAM
2120-ADMN-2016	MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2017	MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS
2120-ADMN-2018	PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2019	MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2120-ADMN-2020	ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

DUTY AREA 2 TECHNICAL FUNCTIONS

2120-TECH-2001	SERVE AS THE TECHNICAL ADVISER FOR OF GROUND ORDNANCE WEAPONS
2120-TECH-2002	PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF GROUND ORDNANCE WEAPONS
2120-TECH-2003	MANAGE UNIT AMMUNITION CONTROL PROGRAM
2120-TECH-2004	PERFORM DUTIES AS LOAD TEST CERTIFICATION OFFICER
2120-TECH-2005	DIRECT RECOVERY OPERATIONS FOR ARTILLERY
2120-TECH-2006	MANAGE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR GROUND ORDNANCE VEHICLES

MOS 2125

ELECTRO-OPTIC INSTRUMENT REPAIR OFFICER

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2125-ADMN-2001	MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS
2125-ADMN-2002	EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS
2125-ADMN-2003	MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES
2125-ADMN-2004	MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2005	MONITOR MAINTENANCE SHOP LEVEL MOS TRAINING PROGRAM
2125-ADMN-2006	MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-20071	MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2008	MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES
2125-ADMN-2009	MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT

2125-ADMN-2010	MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2011	MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2012	MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2013	MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2014	MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2015	MANAGE SHOP SAFETY PROGRAM
2125-ADMN-2016	MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2017	MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS
2125-ADMN-2018	PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2019	MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2125-ADMN-2020	ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

DUTY AREA 2 TECHNICAL FUNCTIONS

2125-TECH-2001	SERVE AS THE TECHNICAL ADVISOR FOR ELECTRO-OPTICAL ORDNANCE EQUIPMENT
2125-TECH-2002	PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF ELECTRO-OPTICAL ORDNANCE EQUIPMENT
2125-TECH-2003	MANAGE UNIT AMMUNITION CONTROL PROGRAM

MOS 2131

TOWED ARTILLERY SYSTEMS REPAIRER

DUTY AREA 01 – ORGANIZATIONAL MAINTENANCE

2131-ORGM-1001	MAINTAIN 155MM HOWITZER TOOLS
2131-ORGM-1002	PERFORM 155MM HOWITZER PMCS
2131-ORGM-1003	MAINTAIN HOWITZER COLLATERAL EQUIPMENT
2131-ORGM-1004	REPAIR CANNON TUBE ASSEMBLY
2131-ORGM-1005	REPAIR RECOIL MECHANISM
2131-ORGM-1006	REPAIR CARRIAGE

DUTY AREA 02 - ADMINISTRATIVE FUNCTIONS

2131-ADMN-1001	FOLLOW BASIC SHOP PROCEDURES
2131-ADMN-1002	FOLLOW BASIC MAINTENANCE PROCEDURES
2131-ADMN-1003	MAINTAIN ARTILLERY FUNCTIONAL AREAS
2131-ADMN-1004	MAINTAIN MAINTENANCE TRANSACTION REPORTS
2131-ADMN-1005	MAINTAIN ARTILLERY PUBLICATION AND DIRECTIVES PROGRAM

MOS 2141

ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

2141-OPRM-1001	PERFORM AAV/FOV OPERATOR PMCS
2141-OPRM-1002	PERFORM AAV/FOV OPERATOR MAINTENANCE
2141-OPRM-1003	OPERATE AAV
2141-OPRM-1004	MAINTAIN AAV/FOV EQUIPMENT RECORDS
2141-OPRM-1005	OPERATE AAV/FOV COMMUNICATIONS EQUIPMENT
2141-OPRM-1006	OPERATE AAVR7A1 RECOVERY EQUIPMENT
2141-OPRM-1007	OPERATE AAVR7A1 MAINTENANCE EQUIPMENT
2141-OPRM-1008	PERFORM LAND BASED RECOVERY WITH THE AAV/FOV
2141-OPRM-2001	OPERATE AAVP7A1 COLD WEATHER EQUIPMENT
2141-OPRM-2002	MAINTAIN AAVR7A1 TOOLS AND TEST EQUIPMENT

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2141-ORGM-1001	PERFORM AAV/FOV ORGANIZATIONAL LEVEL PMCS
2141-ORGM-2001	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT
2141-ORGM-1002	MAINTAIN AAV/FOV SUSPENSION SYSTEM
2141-ORGM-1003	MAINTAIN AAV/FOV POWER PLANT
2141-ORGM-1004	MAINTAIN AAV/FOV TRANSMISSION
2141-ORGM-1005	MAINTAIN AAV/FOV ENGINE
2141-ORGM-1006	MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY
2141-ORGM-1007	MAINTAIN AAV/FOV FINAL DRIVES
2141-ORGM-2002	MAINTAIN AAV/FOV AIR ASPIRATION SYSTEM
2141-ORGM-2003	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM
2141-ORGM-1008	MAINTAIN AAV/FOV HYDRAULIC SYSTEM
2141-ORGM-1009	MAINTAIN AAV/FOV ELECTRICAL SYSTEMS
2141-ORGM-1010	MAINTAIN AAV/FOV FUEL SYSTEM
2141-ORGM-1011	MAINTAIN AAV/FOV CONTROLS AND LINKAGES
2141-ORGM-1012	MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM
2141-ORGM-1013	MAINTAIN AAV/FOV VENTILATION SYSTEM
2141-ORGM-2004	RECOVER SUBMERGED AAV/FOV
2141-ORGM-2005	PREPARE AAV/FOV FOR SHIPMENT
2141-ORGM-2006	MAINTAIN STORED AAV/FOV
2141-ORGM-1014	MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT
2141-ORGM-1015	MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)
2141-ORGM-2007	PERFORM AN AAV/FOV MODIFICATION
2141-ORGM-2008	PERFORM QUALITY CONTROL INSPECTION

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2141-INTM-2001	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT
2141-INTM-2002	MAINTAIN AAV/FOV TRANSMISSION
2141-INTM-2003	MAINTAIN AAV/FOV ENGINE
2141-INTM-2004	MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY
2141-INTM-2005	MAINTAIN AAV/FOV FINAL DRIVE
2141-INTM-2006	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM
2141-INTM-2007	MAINTAIN AAV/FOV HYDRAULIC SYSTEM
2141-INTM-2008	MAINTAIN AAV/FOV ELECTRICAL SYSTEMS
2141-INTM-2009	MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM
2141-INTM-2010	MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)
2141-INTM-2011	MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT

2141-INTM-2012	MAINTAIN AAV/FOV TRACK TENSION ADJUSTER
2141-INTM-2013	REPAIR HYDRAULIC CYLINDER
2141-INTM-2014	REPAIR TRANSMISSION ASSEMBLY
2141-INTM-2016	REPAIR SPEED CHANGE ASSEMBLY
2141-INTM-2017	REPAIR AAV/FOV CLUTCH PACK ASSEMBLIES
2141-INTM-2018	REPAIR BRAKE AND STEER ASSEMBLY
2141-INTM-2019	REPAIR RANGE SELECTOR VALVE ASSEMBLY
2141-INTM-2020	REPAIR POWER TAKE-OFF ASSEMBLY
2141-INTM-2021	REPAIR MARINE DRIVE FRICTION CLUTCH
2141-INTM-2022	REPAIR FAN DRIVE FRICTION CLUTCH
2141-INTM-2023	REPAIR POWER DRIVEN ROTARY PUMP
2141-INTM-2024	REPAIR SOLENOID VALVE ASSEMBLY
2141-INTM-2025	REPAIR PERSONNEL HEATER
2141-INTM-2026	REPAIR AAV/FOV ENGINE
2141-INTM-2027	REPAIR AAV/7A1 VT400 TURBOCHARGER
2141-INTM-2028	REPAIR WATER PUMP
2141-INTM-2029	REPAIR AAV/FOV CYLINDER HEADS
2141-INTM-2030	REPAIR AAV/FOV FINAL DRIVE ASSEMBLY
2141-INTM-2031	REPAIR HYDRAULIC BILGE PUMP
2141-INTM-2032	REPAIR AAV/FOV UPGUNNED WEAPON STATION (UGWS)
2141-INTM-2033	REPAIR WATER JET PROPULSION UNIT
2141-INTM-2034	REPAIR DEFLECTOR ACTUATOR ASSEMBLY
2141-INTM-2035	REPAIR CREW VENT FAN
2141-INTM-2036	REPAIR RADIATOR
2141-INTM-2037	REPAIR ELEVATION MECHANISM
2141-INTM-2038	REPAIR POWER-ASSISTED TRAVERSE MECHANISM
2141-INTM-2039	MAINTAIN AAV/FOV MK154 LAUNCHER

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2141-ADMN-2001	MANAGE MAINTENANCE FUNCTIONAL AREAS
2141-ADMN-2002	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS
2141-ADMN-2003	PERFORM OPERATOR TRAINING
2141-ADMN-2004	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION
2141-ADMN-2005	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

MOS 2146

MAIN BATTLE TANK REPAIRER TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

2146-OPRM-1001	OPERATE M1A1 TANK
2146-OPRM-1002	PERFORM M88A2 OPERATOR PMCS
2146-OPRM-1003	TROUBLESHOOT M88A2
2146-OPRM-1004	OPERATE M88A2
2146-OPRM-1005	OPERATE M88A2 AUXILIARY POWER UNIT
2146-OPRM-1006	OPERATE M88A2 COMMUNICATIONS SYSTEM

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2146-ORGM-1001	MAINTAIN ORGANIZATIONAL TOOLS AND TEST EQUIPMENT
2146-ORGM-1002	PERFORM M1A1 HULL PMCS
2146-ORGM-1003	PERFORM M1A1 TURRET PMCS
2146-ORGM-1004	TROUBLESHOOT M1A1 HULL SYSTEMS

2146-ORGM-1005	TROUBLESHOOT M1A1 TURRET SYSTEMS
2146-ORGM-2001	TROUBLESHOOT M1A1 MINE CLEARING BLADE
2146-ORGM-1006	MAINTAIN M1A1 POWERPACK
2146-ORGM-1007	MAINTAIN M1A1 INDUCTION SYSTEM
2146-ORGM-1008	MAINTAIN M1A1 FUEL SYSTEM
2146-ORGM-1009	MAINTAIN M1A1 COOLING SYSTEM
2146-ORGM-1010	MAINTAIN M1A1 ELECTRICAL SYSTEM
2146-ORGM-2002	MAINTAIN M1A1 FINAL DRIVE
2146-ORGM-2003	MAINTAIN M1A1 BRAKE SYSTEM
2146-ORGM-1011	MAINTAIN M1A1 TRACK AND SUSPENSION
2146-ORGM-2004	MAINTAIN M1A1 STEERING SYSTEM
2146-ORGM-2005	MAINTAIN M1A1 HULL EXTERIOR
2146-ORGM-2006	MAINTAIN M1A1 INTERIOR HULL ASSEMBLY
2146-ORGM-1012	MAINTAIN M1A1 ACCESSORY ITEMS
2146-ORGM-2007	MAINTAIN M1A1 BILGE PUMP
2146-ORGM-1013	MAINTAIN M1A1 HULL HYDRAULIC SYSTEM
2146-ORGM-1014	MAINTAIN M1A1 FIRE SUPPRESSION SYSTEM
2146-ORGM-1015	MAINTAIN M1A1 NBC SYSTEM
2146-ORGM-1016	MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM
2146-ORGM-1017	MAINTAIN M1A1 TURRET SYSTEM
2146-ORGM-1018	MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM
2146-ORGM-1019	MAINTAIN M1A1 TURRET ARMAMENT SYSTEM
2146-ORGM-1020	MAINTAIN M1A1 FIRE CONTROL SYSTEM
2146-ORGM-1021	MAINTAIN M1A1 TURRET NBC SYSTEM
2146-ORGM-2008	MAINTAIN M1A1 MINECLEARING BLADE
2146-ORGM-1022	PERFORM M88A2 ORGANIZATIONAL PMCS
2146-ORGM-1023	TROUBLESHOOT M88A2 SYSTEMS
2146-ORGM-1024	TROUBLESHOOT M88A2 ELECTRICAL SYSTEMS
2146-ORGM-1025	MAINTAIN M88A2 POWER PLANT AND ASSEMBLIES
2146-ORGM-1026	MAINTAIN M88A2 ELECTRICAL SYSTEMS
2146-ORGM-1027	MAINTAIN M88A2 SUSPENSION COMPONENTS
2146-ORGM-2009	MAINTAIN M88A2 HULL AND RELATED COMPONENTS
2146-ORGM-2010	MAINTAIN M88A2 PERSONNEL HEATER
2146-ORGM-1028	MAINTAIN M88A2 FIRE EXTINGUISHER SYSTEM
2146-ORGM-1029	MAINTAIN M88A2 HYDRAULIC SYSTEM COMPONENTS
2146-ORGM-1030	MAINTAIN M88A2 MAIN HYDRAULIC SYSTEM
2146-ORGM-2011	MAINTAIN M88A2 AUXILIARY POWER UNIT
2146-ORGM-1031	MAINTAIN M88A2 GAS PARTICULATE FILTER UNIT
2146-ORGM-2013	MAINTAIN M88A2 SMOKE GRENADE LAUNCHERS
2146-ORGM-2014	MAINTAIN M88A2 EXHAUST SMOKE GENERATING SYSTEM
2146-ORGM-1032	PERFORM AVLB CHASSIS/LAUNCHER PMCS
2146-ORGM-1033	TROUBLESHOOT AVLB CHASSIS/LAUNCHER
2146-ORGM-1034	MAINTAIN AVLB POWER PLANT
2146-ORGM-1035	MAINTAIN AVLB ENGINE
2146-ORGM-1036	MAINTAIN AVLB FUEL SYSTEM
2146-ORGM-1037	MAINTAIN AVLB ELECTRICAL SYSTEM
2146-ORGM-1038	MAINTAIN AVLB TRANSMISSION AND SHIFTING COMPONENTS
2146-ORGM-1039	MAINTAIN AVLB FINAL DRIVE
2146-ORGM-1040	MAINTAIN AVLB BRAKE SYSTEM
2146-ORGM-2015	MAINTAIN AVLB TRACK AND SUSPENSION SYSTEM
2146-ORGM-2016	MAINTAIN AVLB STEERING SYSTEM
2146-ORGM-2017	MAINTAIN AVLB EXTERIOR COMPONENTS
2146-ORGM-1041	MAINTAIN AVLB INTERIOR COMPONENTS
2146-ORGM-2018	MAINTAIN AVLB PERSONNEL HEATER
2146-ORGM-1042	MAINTAIN AVLB GAUGES
2146-ORGM-1043	MAINTAIN AVLB FIRE SUPPRESSION SYSTEM
2146-ORGM-2019	MAINTAIN AVLB SMOKE GENERATOR SYSTEM

2146-ORGM-2020	MAINTAIN AVLB SMOKE GRENADE LAUNCHER
2146-ORGM-1044	MAINTAIN AVLB HYDRAULIC SYSTEM
2146-ORGM-1045	MAINTAIN AVLB BRIDGE
2146-ORGM-1046	MAINTAIN M1A1 EXTERNAL AUXILIARY POWER UNIT (EAPU)
2146-ORGM-1047	MAINTAIN M88A2 OUTPUT REDUCTION UNIT
2146-ORGM-2021	APPLY DEEP WATER FORDING KIT TO M88A2
2146-ORGM-1048	PERFORM ANNUAL CONDITION INSPECTION OF M88A2 RECOVERY VEHICLE
2146-ORGM-1049	MAINTAIN GROUND HOP M88A2 MAIN WINCH

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2146-INTM-1001	TROUBLESHOOT M1A1 HULL SYSTEM COMPONENTS
2146-INTM-1002	TROUBLESHOOT M1A1 TURRET SYSTEM COMPONENTS
2146-INTM-2001	REPAIR AGT TURBINE ENGINE
2146-INTM-2002	MAINTAIN M1A1 FUEL SYSTEM COMPONENTS
2146-INTM-2003	MAINTAIN M1A1 COOLING SYSTEM COMPONENTS
2146-INTM-2004	MAINTAIN M1A1 HULL ELECTRICAL SYSTEM COMPONENTS
2146-INTM-2005	REPAIR M1A1 FINAL DRIVE ASSEMBLY
2146-INTM-2006	MAINTAIN M1A1 STEERING ASSEMBLY
2146-INTM-2007	MAINTAIN M1A1 CHASSIS ACCESSORIES
2146-INTM-2008	MAINTAIN M1A1 FIRE SUPPRESSION EQUIPMENT COMPONENTS
2146-INTM-2009	MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM COMPONENTS
2146-INTM-2010	MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM COMPONENTS
2146-INTM-2011	MAINTAIN M1A1 TURRET ASSEMBLY COMPONENTS
2146-INTM-2012	MAINTAIN M1A1 ARMAMENT SYSTEM COMPONENTS
2146-INTM-2013	MAINTAIN M1A1 MINE CLEARING BLADE COMPONENTS
2146-INTM-2014	MAINTAIN X11003B TRANSMISSION
2146-INTM-2015	MAINTAIN EXTERNAL AUXILIARY POWER UNIT (EAPU)
2146-INTM-2016	TROUBLESHOOT M88A2
2146-INTM-2017	MAINTAIN M88A2 SYSTEMS
2146-INTM-2018	MAINTAIN M88A2 TURBOSUPERCHARGER
2146-INTM-2019	REPAIR M88A2 ENGINE
2146-INTM-2020	REPAIR M88A2 TRANSMISSION
2146-INTM-2021	REPAIR M88A2 OUTPUT REDUCTION UNIT
2146-INTM-2022	MAINTAIN M88A2 FUEL SYSTEM
2146-INTM-2023	MAINTAIN AVLB ENGINE
2146-INTM-2024	MAINTAIN AVLB FUEL SYSTEM
2146-INTM-2025	MAINTAIN AVLB ELECTRICAL SYSTEM
2146-INTM-2026	MAINTAIN AVLB TRANSMISSION
2146-INTM-2027	MAINTAIN AVLB BRAKE SYSTEM COMPONENTS
2146-INTM-2028	MAINTAIN AVLB SUSPENSION SYSTEM
2146-INTM-2029	MAINTAIN AVLB FIRE SUPPRESSION SYSTEM
2146-INTM-2030	MAINTAIN AVLB LAUNCHER
2146-INTM-2031	MAINTAIN AVLB FINAL DRIVE
2146-INTM-2032	MAINTAIN INTERMEDIATE TOOLS AND TEST EQUIPMENT

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2146-ADMN-2001	MANAGE MAINTENANCE FUNCTIONAL AREAS
2146-ADMN-2002	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS
2146-ADMN-2003	SUPERVISE MAINTENANCE MANAGEMENT PROGRAMS
2146-ADMN-2004	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION
2146-ADMN-2005	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

MOS 2147

LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR AND CREW/OPERATOR MAINTENANCE

2147-OPRM-1001	PERFORM LAV OPERATOR MAINTENANCE
2147-OPRM-1002	OPERATE LAV-25
2147-OPRM-1003	OPERATE LAV-ANTI-TANK (AT)
2147-OPRM-1004	OPERATE LAV-RECOVERY
2147-OPRM-2002	OPERATE LAV-COMMAND & CONTROL (C2)
2147-OPRM-2003	OPERATE LAV-MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)
2147-OPRM-2004	OPERATE LAV-LOGISTICS (L)
2147-OPRM-1005	MAINTAIN LAV TOOLS AND TEST EQUIPMENT
2147-OPRM-1006	PERFORM LAV PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2147-ORGM-1001	MAINTAIN LAV HULL (ALL VARIANTS)
2147-ORGM-1002	MAINTAIN LAV SUSPENSION SYSTEM
2147-ORGM-1003	MAINTAIN LAV ENGINE
2147-ORGM-1004	MAINTAIN LAV TRANSMISSION
2147-ORGM-1005	MAINTAIN LAV POWERPACK
2147-ORGM-1006	MAINTAIN LAV STEERING SYSTEM
2147-ORGM-1007	MAINTAIN LAV COOLING SYSTEM
2147-ORGM-1008	MAINTAIN LAV FUEL SYSTEM
2147-ORGM-1009	MAINTAIN LAV HULL ELECTRICAL SYSTEM
2147-ORGM-1010	MAINTAIN LAV PNEUMATIC SYSTEM
2147-ORGM-1011	MAINTAIN LAV HULL HYDRAULIC SYSTEM
2147-ORGM-1012	MAINTAIN LAV BRAKE SYSTEM
2147-ORGM-1013	MAINTAIN LAV DRIVE TRAIN
2147-ORGM-2001	MAINTAIN LAV FIRE SUPPRESSION SYSTEM
2147-ORGM-2002	MAINTAIN LAV-25 TURRET ASSEMBLY
2147-ORGM-2003	MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS
2147-ORGM-2004	MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS
2147-ORGM-2005	MAINTAIN LAV-AT TURRET ASSEMBLY
2147-ORGM-2006	MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS
2147-ORGM-2007	MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS
2147-ORGM-2008	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES
2147-ORGM-2009	MAINTAIN LAV-RECOVERY
2147-ORGM-2010	MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM
2147-ORGM-2011	MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM
2147-ORGM-2012	MAINTAIN M242 25MM AUTOMATIC CHAIN GUN
2147-ORGM-2013	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES
2147-ORGM-2014	MAINTAIN LAV-AT TURRET CONTROLS AND INDICATORS
2147-ORGM-2015	CONVERT LAV-AT TURRET STOW AND LOW STOW

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2147-INTM-2001	MAINTAIN LAV HULL (ALL VARIANTS)
2147-INTM-2002	MAINTAIN LAV SUSPENSION SYSTEM

2147-INTM-2003	MAINTAIN LAV ENGINE
2147-INTM-2004	MAINTAIN LAV TRANSMISSION
2147-INTM-2005	MAINTAIN LAV POWERPACK
2147-INTM-2006	MAINTAIN LAV STEERING SYSTEM
2147-INTM-2007	MAINTAIN LAV HULL ELECTRICAL SYSTEM
2147-INTM-2008	MAINTAIN LAV HULL PNEUMATIC SYSTEM
2147-INTM-2009	MAINTAIN LAV HULL HYDRAULIC SYSTEM
2147-INTM-2010	MAINTAIN LAV BRAKE SYSTEM
2147-INTM-2011	MAINTAIN LAV DRIVE TRAIN
2147-INTM-2012	MAINTAIN LAV FIRE SUPPRESSION SYSTEM
2147-INTM-2013	MAINTAIN LAV-25 TURRET ASSEMBLY
2147-INTM-2014	MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS
2147-INTM-2015	MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS
2147-INTM-2016	MAINTAIN LAV-AT TURRET ASSEMBLY
2147-INTM-2017	MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS
2147-INTM-2018	MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS
2147-INTM-2019	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES
2147-INTM-2020	MAINTAIN LAV-RECOVERY
2147-INTM-2021	MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM
2147-INTM-2022	MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM
2147-INTM-2023	MAINTAIN M242 25MM AUTOMATIC CHAIN GUN

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2147-ADMN-2001	MANAGE MAINTENANCE FUNCTIONAL AREAS
2147-ADMN-2002	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS
2147-ADMN-2003	PERFORM OPERATOR TRAINING
2147-ADMN-2004	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION
2147-ADMN-2005	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

MOS 2149

ORDNANCE VEHICLE MAINTENANCE CHIEF

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2149-ADMN-2001	ESTABLISH MAINTENANCE MANAGEMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2002	SUPERVISE GROUND ORDNANCE MAINTENANCE RESOURCES
2149-ADMN-2003	SUPERVISE PUBLICATIONS AND DIRECTIVES IN SUPPORT OF GROUND ORDNANCE EQUIPMENT PROGRAMS
2149-ADMN-2004	MANAGE GROUND ORDNANCE MAINTENANCE MOS TRAINING PROGRAMS
2149-ADMN-2005	SUPERVISE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2006	SUPERVISE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2007	SUPERVISE GROUND ORDNANCE MAINTENANCE FACILITIES
2149-ADMN-2008	SUPERVISE MAINTENANCE PRODUCTION SCHEDULES FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2009	SUPERVISE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2010	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) FOR GROUND ORDNANCE EQUIPMENT

2149-ADMN-2011	SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2012	SUPERVISE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2013	MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2014	SUPERVISE SHOP SAFETY PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2015	SUPERVISE EMBARKATION OF GROUND ORDNANCE EQUIPMENT
2149-ADMN-2016	SUPERVISE MAINTENANCE SHOP INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2017	PREPARE ROUTINE CORRESPONDENCE, MESSAGES AND REPORTS FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2018	COORDINATE LOAD TEST PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2149-ADMN-2019	SUPERVISE PHYSICAL SECURITY OF GROUND ORDNANCE EQUIPMENT
2149-ADMN-2020	ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT
2149-ADMN-2021	IDENTIFY THE PHASES IN THE ACQUISITION PROCESS

DUTY AREA 2 TECHNICAL FUNCTIONS

2149-TECH-2001	SUPERVISE RECOVERY OPERATIONS OF ORDNANCE VEHICLES
2149-TECH-2002	SUPERVISE LICENSING PROGRAM FOR ORDNANCE RECOVERY VEHICLES
2149-TECH-2003	SUPERVISE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR ORDNANCE VEHICLE
2149-TECH-2004	PROVIDE TECHNICAL SUPERVISION IN THE REPAIR FOR THE FAMILY OF ORDNANCE VEHICLES

MOS 2161

MACHINIST

DUTY AREA 01 - OPERATION AND ORGANIZATIONAL MAINTENANCE

2161-OPRM-1001	OPERATE A BANDSAW
2161-OPRM-1002	OPERATE A BENCH GRINDER
2161-OPRM-1003	OPERATE A HORIZONTAL BAND SAW (CUTOFF SAW)
2161-OPRM-1004	OPERATE CYLINDRICAL GRINDER
2161-OPRM-1005	OPERATE A DRILL PRESS
2161-OPRM-1006	OPERATE A DRILL GRINDING MACHINE
2161-OPRM-1007	OPERATE ELECTRO DISINTEGRATING MACHINE
2161-OPRM-1008	OPERATE HONING MACHINE
2161-OPRM-1009	OPERATE HYDRAULIC PRESS
2161-OPRM-1010	OPERATE LAPPING MACHINE
2161-OPRM-1011	SET UP LATHE
2161-OPRM-1012	PERFORM THREADING OPERATIONS
2161-OPRM-1013	PERFORM LATHE OPERATIONS
2161-OPRM-1014	PERFORM LATHE TURNING OPERATIONS
2161-OPRM-1015	OPERATE MILLING MACHINE
2161-OPRM-1016	PERFORM CUTTING OPERATION UTILIZING OXYACETYLENE WELDING EQUIPMENT
2161-OPRM-1017	OPERATE HARDNESS TESTER
2161-OPRM-1018	OPERATE SURFACE GRINDER
2161-OPRM-1019	OPERATE VALVE GRINDING MACHINE

2161-OPRM-1020	OPERATE LATHE MILLING ATTACHMENT/VERSA MILL
2161-OPRM-1021	OPERATE MACHINIST'S VAN
2161-OPRM-1022	OPERATE A DIGITAL READ OUT (DRO)
2161-OPRM-1023	PERFORM KNURLING OPERATIONS

DUTY AREA 02 – ORGANIZATIONAL MAINTENANCE

2161-ORGM-1001	PERFORM CORRECTIVE MAINTENANCE (CM) ON MACHINIST'S EQUIPMENT

DUTY AREA 03 - EQUIPMENT REPAIR AND FABRICATION

2161-FABR-1001	EXTRACT BROKEN BOLT, TAP, DRILL BIT, OR STUD
2161-FABR-1002	EXTRACT THREAD INSERTS
2161-FABR-1003	PREPARE SHOP DRAWING
2161-FABR-1004	WELD BANDSAW BLADE
2161-FABR-2001	PERFORM HEAT TREATING OPERATION
2161-FABR-2002	SHARPEN MILLING CUTTERS
2161-FABR-1005	SHARPEN TURNING TOOL BITS
2161-FABR-1006	RESHARPEN TWIST DRILL BITS

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2161-ADMN-2001	IMPLEMENT MAINTENANCE MANAGEMENT TRAINING PROGRAM
2161-ADMN-2002	IMPLEMENT SUPPLY SUPPORT PROGRAM
2161-ADMN-1001	FOLLOW BASIC SHOP PROCEDURES
2161-ADMN-1002	FOLLOW BASIC MAINTENANCE PROCEDURES
2161-ADMN-1003	MAINTAIN MACHINE SHOP FUNCTIONAL AREAS
2161-ADMN-1004	MAINTAIN MAINTENANCE TRANSACTION REPORTS
2161-ADMN-1005	OPERATE COMPUTER NUMERICAL CONTROL (CNC) EQUIPMENT

MOS 2171

ELECTRO-OPTICAL ORDNANCE REPAIRER

DUTY AREA 01 - BASIC ELECTRONICS

2171-ELEC-1001	FOLLOW BASIC SHOP PROCEDURES
2171-ELEC-1002	ANALYZE ELECTRONIC DEVICES/COMPONENTS
2171-ELEC-1003	ANALYZE ELECTRONIC CIRCUITS/COMPONENTS
2171-ELEC-1004	FOLLOW BASIC MAINTENANCE PROCEDURES

DUTY AREA 02 – INTERMEDIATE MAINTENANCE

2171-INTM-1001	MAINTAIN AN/TAM-3B NIGHT SIGHT TEST SET
2171-INTM-1002	MAINTAIN M220E4 TOW WEAPON SYSTEM
2171-INTM-1003	MAINTAIN AN/TSM-140B TOW FIELD TEST SET
2171-INTM-1004	MAINTAIN AN/TSM-152 MISSILE GUIDANCE SET TEST SET
2171-INTM-1005	MAINTAIN TS-3784/TAS BORESIGHT COLLIMATOR TEST SET
2171-INTM-1006	MAINTAIN AN/TAM-5 AMPLIFIER TEST SET
2171-INTM-1007	MAINTAIN AN/PAQ-3 MODULAR UNIVERSAL LASER EQUIPMENT MULE)
2171-INTM-1008	MAINTAIN AN/GVS-5 LASER INFRARED OBSERVATION SET
2171-INTM-1009	MAINTAIN MODULAR UNIVERSAL LASER EQUIPMENT (MULE) INTERMEDIATE MAINTENANCE KIT

2171-INTM-1010	MAINTAIN PASSIVE NIGHT VISION EQUIPMENT
2171-INTM-1011	MAINTAIN M1 SERIES GUNNERS QUADRANT
2171-INTM-1012	MAINTAIN M49 OBSERVATION TELESCOPE
2171-INTM-1013	MAINTAIN M2A2 AIMING CIRCLE
2171-INTM-2001	MAINTAIN M3 BORESCOPE
2171-INTM-2002	MAINTAIN M1A2 INFINITY AIMING REFERENCE COLLIMATOR
2171-INTM-2003	MAINTAIN M64A1 SIGHT UNIT
2171-INTM-2004	MAINTAIN SHOULDER-LAUNCHED MULTIPURPOSE ASSAULT WEAPON (SMAW) TRIGGER ASSEMBLY
2171-INTM-1014	MAINTAIN M198 HOWITZER FIRE CONTROL SYSTEM
2171-INTM-1015	MAINTAIN M1A1 TANK FIRE CONTROL SYSTEM
2171-INTM-1016	MAINTAIN DIRECT SUPPORT ELECTRONIC SYSTEM TEST SET
2171-INTM-1017	MAINTAIN LIGHT ARMORED VEHICLE (LAV) SERIES FIRE CONTROL SYSTEM
2171-INTM-2005	MAINTAIN ASSAULT AMPHIBIOUS VEHICLE (AAV) SERIES FIRE CONTROL SYSTEM
2171-INTM-2006	MAINTAIN AN/VLQ-6 MISSILE COUNTERMEASURE DEVICE
2171-INTM-1018	MAINTAIN TS-3620/GVS-5 TEST SET
2171-INTM-1019	MAINTAIN TS-4348/UV ELECTRONIC SYSTEMS TEST SET
2171-INTM-1020	MAINTAIN CROSS-LEVELING FIXTURE
2171-INTM-1021	MAINTAIN AZIMUTH TEST FIXTURE
2171-INTM-2007	MAINTAIN STRAIGHT TUBE TELESCOPE FIXTURE
2171-INTM-1022	MAINTAIN PP-8333/U BATTERY ANALYZER-CHARGER (CRISTIE)
2171-INTM-1023	MAINTAIN THERMAL SIGHTS
2171-INTM-1024	MAINTAIN ELECTRO-OPTICAL EQUIPMENT MAINTENANCE SHELTER
2171-INTM-2008	MAINTAIN THE M21 REMOTE SENSING CHEMICAL AGENT AUTOMATIC ALARM

DUTY AREA 03 - ADMINISTRATIVE FUNCTIONS

2171-ADMN-2001	MAINTAIN GROUND ORDNANCE MAINTENANCE RELATED PROGRAMS
2171-ADMN-2002	MAINTAIN ELECTRO-OPTICAL ORDNANCE TRAINING PROGRAM
2171-ADMN-2003	MAINTAIN GROUND ORDNANCE MAINTENANCE-RELATED PROGRAMS
2171-ADMN-2004	MAINTAIN GROUND ORDNANCE REPAIR AREA
2171-ADMN-2005	MAINTAIN COMPLIANCE WITH SECURITY REGULATIONS
2171-ADMN-2006	MAINTAIN GROUND ORDNANCE SAFETY PROGRAM

MOS 2181

GROUND ORDNANCE WEAPONS CHIEF/SENIOR GROOUND ORDNANCE WEAPONS CHIEF

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2181-ADMN-2001	ESTABLISH MAINTENANCE MANAGEMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2002	SUPERVISE GROUND ORDNANCE MAINTENANCE RESOURCES PROGRAMS
2181-ADMN-2003	SUPERVISE PUBLICATIONS AND DIRECTIVES IN SUPPORT OF GROUND ORDNANCE EQUIPMENT PROGRAMS
2181-ADMN-2004	MANAGE GROUND ORDNANCE MAINTENANCE MOS TRAINING PROGRAMS
2181-ADMN-2005	SUPERVISE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2006	SUPERVISE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2007	SUPERVISE GROUND ORDNANCE MAINTENANCE FACILITIES

2181-ADMN-2008	SUPERVISE MAINTENANCE PRODUCTION SCHEDULES FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2009	SUPERVISE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE
2181-ADMN-2010	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2011	SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2012	SUPERVISE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2013	MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2014	SUPERVISE SHOP SAFETY PROGRAM FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2015	SUPERVISE EMBARKATION OF GROUND ORDNANCE EQUIPMENT
2181-ADMN-2016	SUPERVISE MAINTENANCE SHOP INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2017	PREPARE ROUTINE CORRESPONDENCE, MESSAGES AND REPORTS FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2018	COORDINATE LOAD TEST PROCEDURES FOR GROUND ORDNANCE EQUIPMENT
2181-ADMN-2019	SUPERVISE PHYSICAL SECURITY OF GROUND ORDNANCE EQUIPMENT
2181-ADMN-2020	ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT
2181-ADMN-2021	IDENTIFY THE PHASES IN THE ACQUISITION PROCESS

DUTY AREA 2 TECHNICAL FUNCTIONS

2181-TECH-2001	MONITOR UNIT ARMS, AMMUNITION, & EXPLOSIVES (AA&E) PROGRAMS
2181-TECH-2002	PROVIDE TECHNICAL SUPERVISION FOR THE REPAIR OF GROUND ORDNANCE EQUIPMENT

MOS 2102

ORDNANCE OFFICER

ADMINISTRATIVE NOTE #1:
Various staff assignments will include but are not limited to Headquarters Marine Corps, Joint Task Forces (JTF), Marine Expeditionary Forces (MEF), and Marine Divisions. Due to the scope of duties and responsibilities at each level, the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (Maj) for Divisions, JTF, Bases, Posts, and Stations.

2. MOJT (Standard) Sustainment (24) Req by (LtCol) for MEF, JTF, MARFORRES, Posts, Bases, and Stations.

3. Automated systems include CD-ROM, web based information and all applications of electronic media.

DUTY AREA 01 ADMINISTRATIVE FUNCTIONS

2102-ADMN-2001 SERVE AS THE TECHNICAL ADVISOR FOR GROUND ORDNANCE EQUIPMENT TO THE COMMANDERS/COMMANDING GENERALS

CONDITION(S): Given an automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, personnel, direction from the Commanding General or staff and references.

STANDARD(S): To ensure the procedures for proper maintenance and distribution of ground ordnance equipment are employed and adhered to per the references.

PERFORMANCE STEPS:

1. Prepare information on all matters relating to ground ordnance issues.
2. Provide guidance on all matters relating to ground ordnance issues.
3. Provide recommendations on all matters relating to ground ordnance issues.
4. Compose staffing papers on ground ordnance related issues.
5. Conduct ground ordnance related briefings.
6. Serve as ground ordnance specialist on various staffs.

REFERENCE(S):

1. Applicable Technical Information
2. Applicable Unit Logistics Support Summary (ULSS)
3. Joint Operations Planning, Volumes I-IV
4. Local policies and procedures
5. Marine Corps Manual
6. MCBUL 3000
7. MCO 4400.82, Mimms Controlled Item Management Manual
8. MCO 4420.15
9. MCO 4733.1, Oil Analysis Program for Ground Equipment
10. MCO 5311.1_, Total Force Structure Process (TFSP)

11. MCO 8010.1, Class V(W) Planning Factors for Fleet Marine Force Combat Operation….
12. MCO 8011.1
13. MCO 8020.1
14. MCO 8025.1, Class V(W) Malfunction and Defect Reporting
15. MCO 8300.1, Marine Corps Serialized Control of Small Arms System
16. MCO P4790.1_, Marine Corps Integrated Maintenance Management Sys....
17. MCO P4790.2_, MIMMS Field Procedures Manual
18. OPNAVINST 5530.13
19. SECNAVINST 5216.5
20. Table of Organization & Equipment (T/O&E)
21. TM 4700-15/1_
22. UM 4790-5
23. 29 CFR 1910.12000_
24. Applicable Modification Instructions (MI’s)
25. Current ALMARs
26. Current MARADMINs
27. DOD 4160.21-M-1
28. FMFRP 4-34
29. MCDP-4
30. MCO 1510 Series, Individual Training Standards
31. MCO 1553.2, Management for Marine Corps Formal Schools and Training Centers
32. MCO 1553.3, Unit Training Management (UTM)
33. MCO 1650.17_, Marine Corps Military Incentive Awards Program
34. MCO 3000.11_, Marine Corps Automated Readiness Evaluation System
35. MCO 4030.16_, Packaging and Packaging Maintenance of Small Arms Weapons
36. MCO 4030.19_
37. MCO 4030.25_, Responsibilities for Technical Escort of Dangerous Materials
38. MCO 4030.33_, Packaging of Materiel
39. MCO 4030.36_
40. MCO 4105 Series
41. MCO 4105.2_, Marine Corps Waranty Program
42. MCO 4110.2, Management and Execution of Integrated Logistic Support….
43. MCO 4340.1_, Reporting Of Missing, Lost, Stolen, Or Recovered (Mlsr) Governmen....
44. MCO 4400.16_, Uniform Materiel Movement And Issue Priority System
45. MCO 4420.15_
46. MCO 4450.12, Storage And Handling Of Hazardous Materials
47. MCO 4600.25_
48. MCO 4600.30_, Use Of Intermodal Containers, Special Purpose Vans, And Tactical ....
49. MCO 4610.15_, Shipments Of Military Equipment, Explosives, And Other Dangerous ....
50. MCO 4710.8
51. MCO 4790.18, Corrosion Prevention And Control (CPAC) Program
52. MCO 4855.10_, Product Quality Deficiency Report (PQDR)
53. MCO 5100.29, Marine Corps Safety Program
54. MCO 5100.8_
55. MCO 5104.3_, Marine Corps Radiation Safety Program
56. MCO 5215.1, Marine Corps Directive
57. MCO 5215.17
58. MCO 5500.6_, Arming Of Security And Law Enforcement (Le) Personnel And THE USE....
59. MCO 5530.14_
60. MCO 5600.31

61. MCO 8400.6_, Licensing Procedures For Ordnance Vehicle Operators
62. MCO P1070.12, Marine Corps Individual Records Administration Man....
63. MCO P11240.106_
64. MCO P11262.2_
65. MCO P1200.7_
66. MCO P4400.105_, Radioactive Commodities In The Dod Supply Systems
67. MCO P4400.150_ , Consumer-Level Supply Policy Manual
68. MCO P4600.14_
69. MCO P4600.19_
70. MCO P4610.19_
71. MCO P4790.3_
72. MCO P5090.2_, Environmental Compliance And Protection Manual
73. MCRP 3-OA
74. MCRP 3-OB
75. MCWP 3-1
76. MCWP 4-1
77. MCWP 4-11
78. MSE/Unit Embarkation
79. NAVFAC P307
80. NAVMC 2706
81. NAVSEATM 50420-AA-RAD-010OPNAVINST 5530.13_
82. SL 1-2/3
83. Special Allowance List
84. TB MED 524_
85. TI 4731-14/1_
86. TI 4733-15/1_
87. TI 4733-15/11_
88. TI- 8005-25/12
89. TM 4420-15/1
90. TM 4795-12
91. TM 4795-34
92. UM 4400-124
93. UM-MCPDS
94. UM-PLMS

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2002 PUBLISH GROUND ORDNANCE POLICIES, DIRECTIVES AND REGULATIONS

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, personnel, and references.

STANDARD(S): To ensure all ordnance procedures directives and regulation from adjacent/higher commands are adhered to per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. determine requirements.
3. Develop policy as it relates to ground ordnance issues.
4. Develop directives as it relates to ground ordnance issues.

5. Staff documents through appropriate higher/adjacent agencies.
6. Analyze the effectiveness of policies.

REFERENCE(S):

1. Applicable TMs
2. SECNAVINST 5216.5
3. SECNAVINST 5311

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (CAPT)

2102-ADMN-2003 PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given applicable references, automated systems with internet access and equipment technical information.

STANDARD(S): To ensure the maintenance of ground ordnance equipment is accomplished per the mission requirements and the references.

PERFORMANCE STEPS:

1. Anticipate requirements.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions.
5. Monitor maintenance effort.
6. Provide technical guidance, as required.
7. Analyze effectiveness of administrative functions.
8. Focus ground ordnance equipment maintenance effort to maximum combat effectiveness.

9. Sustain ground ordnance equipment maintenance effort to maximum combat effectiveness.
10. Monitor configuration management.

REFERENCE(S):

1. Applicable Technical Information
2. Applicable Unit Logistics Support Summary (ULSS)
3. MCBUL 3000
4. TM 4700-15/1_
5. UM 4790-5
6. Applicable Modification Instructions (Mis)
7. MCO P4400.150_

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2004 COORDINATE THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that the equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Direct the fielding effort.
4. Direct placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.
7. Review technical information.

REFERENCE(S):

1. Applicable Technical Information
2. Applicable Unit Ligistics Support Summary (ULSS)
3. Local Policies and Procedures
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Capt)

2102-ADMN-2005 DEVELOP MAINTENANCE APPENDICES FOR THE LOGISTICS ANNEX OF OPERATION ORDERS

CONDITION(S): Given an operation plan, Table of Organization & Equipment (T/O&E), automated systems with internet access and other technical information.

STANDARD(S): Support all mission requirements of Marine Air Ground Task Force (MAGTF) operation per the references.

PERFORMANCE STEPS:

1. determine operational requirements.
2. Validate assigned maintenance capabilities based on the operation plan.
3. Validate support personnel requirements based on the operation plan.
4. Validate support equipment requirements based on operation plan.
5. Coordinate maintenance administration requirements based on operation plan.
6. Prepare maintenance support appendices for ground ordnance equipment.
7. Validate environmental compliance requirements.

REFERENCE(S):

1. SECNAVINST 5216.5
2. MCWP 4-11

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2006 MANAGE MAINTENANCE INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure ground ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate maintenance information requirements.
2. Validate required output reports.
3. Monitor completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.
8. Coordinate communications with adjacent/higher supporting agencies.

REFERENCE(S):

1. Applicable Technical Information
2. MCBUL 3000
3. MCO P4790.1_
4. MCO P4790.2_
5. TM 4700-15/1_
6. UM 4790-5
7. MCO P4400.150

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2007 COORDINATE MAINTENANCE FOR GROUND ORDNANCE EQUIPMENT IN SUPPORT OF EXPEDITIONARY MANEUVER WARFARE

CONDITION(S): Given an operation plan, Table of Organization & Equipment (T/O&E), automated systems with internet access and other technical information.

STANDARD(S): Support Expeditionary Maneuver Warfare mission requirements per the references.

PERFORMANCE STEPS:

1. Validate requirements in support of operational commanders.

2. Coordinate the validation of the operational commander's required maintenance.
3. Analyze readiness posture of deployed Marine Air Ground Task Forces (MAGTFs).
4. Coordinate the focus of ground ordnance equipment with higher/adjacent agencies in support of the maintenance effort to maximize combat effectiveness.

REFERENCE(S):

1. MCWP 3-1, Ground Combat Operations
2. MCWP 4-1, Logistics Operations
3. MCWP 4-11, Tactical-Level Logistics

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LtCol)

2102-ADMN-2008 MONITOR COMPLIANCE WITH PHYSICAL SECURITY PROGRAMS

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD(S): Ensure ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Monitor compliance with security requirements for facilities.
4. When assigned as commander, ensure Ordnance personnel are security trained.
5. When assigned as commander, ensure Arms Ammunition and Explosives (AA&E) personnel are screened.
6. Analyze effectiveness of security programs.

REFERENCE(S):

1. Local Policies and Procedures
2. OPNAVINST 5530.13, Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (Aa&E). ...
3. MCO 5500.6_, Arming of Security and Law Enforcement (LE) Personnel
4. MCO 5530.14_, Physical Security and Loss Prevention Manual

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2009 MANAGE AMMUNITION CONTROL PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), ammunition records, and personnel.

STANDARD: Ensure mission requirements are maintained per the references.

PERFORMANCE STEPS:

1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Monitor safety of personnel.
4. Monitor ammunition handling procedures.
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.

REFERENCE(S):

1. Local Policies and Procedures
2. MCO 8010.1, Class V(W) Planning Factors For Fleet Marine Force Combat Operations
3. MCO 8011.1
4. MCO 8020.1
5. MCO 8025.1
6. MCO 8300.1
7. MCO 4340.1_

ADMINISTRATIVE INSTRUCTION: This task applies to Ordnance Officers at the division and higher levels, to include aviation ordnance (Class V(A)) at Marine Expeditionary Force.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (Maj)

2102-ADMN-2010 MONITOR GROUND ORDNANCE EQUIPMENT CORRECTIVE MAINTENANCE PROGRAMS

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Monitor corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Monitor quality control effectiveness.
5. Coordinate with adjacent/higher maintenance activities.
6. Coordinate staff actions relating to maintenance of ground ordnance equipment.

REFERENCE(S):

1. Applicable Technical Information
2. Local Policies and Procedures
3. MCBUL 3000
4. MCO 4400.82
5. TM 4700-15/1_
6. MCO 3000.11_

7. UM 4790-5

NOTE: See 2102.01.01 for the required references.

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2011 MONITOR GROUND ORDNANCE EQUIPMENT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Monitor Preventive Maintenance Checks and Services (PMCS) requirements.
2. Monitor cyclic maintenance requirements.
3. Monitor special maintenance requirements.
4. Monitor deferred maintenance requirements.
5. Monitor quality control (QC) procedures for PMCS program.

REFERENCE(S):

1. Applicable Technical Information
2. Local Policies and Procedures
3. MCBUL 3000
4. MCO 4400.82
5. TM 4700-15/1_
6. MCO 3000.11_
7. UM 4790-5

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2012 MONITOR GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, personnel, maintenance facility, and a budget.

STANDARD(S): To ensure that maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the references and commanders intent.

PERFORMANCE STEPS:

1. Validate required resources.

2. Prioritize available resources.
3. Plan employment of available resources.
4. Coordinate available resources with adjacent/higher agencies.
5. Provide recommendations to G-1, MMEA and Occupational Field Sponsor on the assignment of all occupational field 21 personnel.

REFERENCE(S):

1. Applicable Technical Information
2. MCBUL 3000
3. MCO P4790.2_
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2013 MONITOR MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that maintenance related programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Monitor Product Quality Deficiency Report (PQDR) program.
3. Monitor Corrosion Prevention and Control (CPAC) program.
4. Monitor a quality control (QC) program.
5. Monitor Depot Level Maintenance programs.
6. Monitor execution of Contract Logistic Support (CLS).
7. Monitor execution of warranty programs.
8. Monitor demilitarization procedures.
9. Validate Military Awards/Incentives programs submissions.
10. Assess life cycle management as subject matter expert (SME).

REFERENCE(S):

1. Applicable Technical Information
2. Applicable Unit Logistics Support Summary (ULSS)
3. MCO P4790.1_
4. MCO P4790.2_

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2014 MONITOR GROUND ORDNANCE EQUIPMENT FORMAL SCHOOL TRAINING

CONDITION(S): Given the reference, automated systems with internet access, personnel, personnel requirements and mission requirements.

STANDARD(S): Ensure that personnel are trained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Coordinate formal Military Occupational Specialty (MOS) training with higher/adjacent agencies.
3. Coordinate executive level staff actions.
4. Analyze effectiveness of formal MOS training.

REFERENCE(S):

1. Applicable Technical Information
2. MCO P4790.1_
3. MCO P4790.2_
4. Table of Organization & Equipment (T/O&E)
5. MCO 1510 Series
6. MCO 1553.2
7. MCO 1553.3

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2015 PREPARE CORRESPONDENCE MESSAGES RELATING TO GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to publish.

STANDARD(S): To ensure correspondence is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Prepare correspondence, as required.
2. Prepare messages, as required.
3. Prepare reports, as required.
4. Prepare policy letters, as required.
5. Review all correspondence submitted by subordinates.
6. Direct correspondence filing procedures.
7. Staff correspondence to higher/adjacent agencies.

REFERENCE(S):

1. Local Policies and Procedures
2. SECNAVINST 5216.5

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2016 REVIEW HIGHER HEADQUARTERS DIRECTIVES RELATING TO GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to publish.

STANDARD(S): To ensure policies and procedures contained in higher headquarters directives support mission requirements.

PERFORMANCE STEPS:

1. Determine applicability.
2. Recommend changes, as required.
3. Analyze impact.
4. Analyze effectiveness of review.

REFERENCE(S):

1. MCO P4790.2_
2. Table of Organization & Equipment (T/O&E)
3. MCWP 4-1
4. MCWP 4-11

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2017 ESTABLISH MAJOR SUBORDINATE COMMAND LEVEL INSPECTION PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to publish.

STANDARD(S): To ensure that ground ordnance equipment related planning and organization are sound policies, complies with, and that readiness and capability are sustained to support mission requirements.

PERFORMANCE STEPS:

1. Validate effectiveness of maintenance related programs.
2. Validate compliance with directives.
3. Validate equipment readiness.
4. Analyze trend indicators.
5. Direct corrective action.
6. Analyze effectiveness of corrective action.

REFERENCE(S):

1. Applicable Technical Information
2. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTION: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Capt)

2102-ADMN-2018 PERFORM OCCUPATIONAL SPONSOR DUTIES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given Table of Organizations & Equipment (T/O&E), automated systems with internet access, and references.

STANDARD(S): To ensure management of the Occupational Field 21 in support of Marine Corps mission.

PERFORMANCE STEPS:

1. Exercise oversight of occupational field specialties as the Subject Matter Expert (SME).
2. Participate in the combat development systems process.
3. Assist in managing grade structure for officers.
4. Assist in managing grade structure for enlisted Marines.
5. Coordinate with Total Force Structure Division in the conduct of structure reviews of all TO/E's.
6. Validate existing structure requirements.
7. Determine requisite manning levels necessary to adequately support MOS structure.
8. Interface with MCCDC, Training and Education Command, and formal schools.
9. Review training tracks and analyze career progression training to meet Marine Corps requirements.
10. Review Individual Training Standards.
11. Validate Training Input Plan.
12. Review Course Content Review Board initiatives.
13. Establish point of contact for occupational field 21 for Deputy Commandant for Manpower and Reserve Affairs.
14. Provide occupational field input to officer and enlisted plans section for grade shaping and accessions.
15. Screen LAT movers and additional MOS requests.
16. Coordinate with officer and enlisted assignments in regards to prerequisites, pending structure change, unique assignments requirements, and MOS briefs.

REFERENCE(S):

1. Applicable Technical Information
2. Applicable Unit Logistics Support Summary (ULSS)
3. Marine Corps Manual
4. MCBUL 3000
5. OPNAVINST 5530.13
6. Table of Organization & Equipment (T/O&E)
7. Current ALMARs
8. Current MARADMINs

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Required by (Maj)

MOS 2110

ORDNANCE VEHICLE MAINTENANCE OFFICER

ADMINISTRATIVE NOTE #1

Various staff assignments will include but are not limited to Headquarters Marine Corps (HQMC), post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level, the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, Stations and HQMC.

3. Automated systems include CD-ROM, web based information and all applications of electronic media.

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2110-ADMN-2001 MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), equipment records, automated systems with internet access, and references.

STANDARD(S): Ensure that ground ordnance equipment remains combat ready per the references.

PERFORMANCE STEPS:

1. Determine mission requirements.
2. Prioritize ground ordnance equipment maintenance effort to maximize combat effectiveness.

REFERENCE(S):

1. 29 CFR 1910.12000_
2. Applicable MI's
3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
12. MCO 1553.2
13. MCO 1553.3
14. MCO 1650.17_
15. MCO 3000.11
16. MCO 4030.16_
17. MCO 4030.19_

18. MCO 4030.25_
19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_
52. MCO P4600.19_
53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA Unit Training Management
60. MCRP 3-OB How to Conduct Training
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit Embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_

75. TM 4795-12
76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2002 EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records and applicable references.

STANDARD(S): Ensure all applicable maintenance management programs are established per the references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Analyze capabilities.
3. Validate resource requirements.
4. Analyze external requirements.
5. Project future maintenance requirements.
6. Develop procedures utilizing functional areas of maintenance management.
7. Implement maintenance management programs.
8. Manage maintenance management programs.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P1200.7_ MOS Manual
3. MCO 3000.11
4. TM 4700-15/1_
5. Applicable Technical Information
6. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2003 MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, personnel, maintenance facility, and a budget.

STANDARD(S): To ensure that maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the references and commanders intent.

PERFORMANCE STEPS:

1. Determine required resources.
2. Prioritize available resources.
3. Plan employment of available resources.
4. Organize available resources.
5. Coordinate available resources.

REFERENCE(S):

1. MCO P4790.2_
2. Table of Organization & Equipment (T/O&E)
3. TM 4700-15/1_
4. MCO 4400.150
5. MCWP 4-1
6. MCDP-4
7. MCO 4733.1_
8. MCO 4710.8_
9. MCO 5215.1_
10. MCO 5215.17_
11. MCO P5600.31_
12. MCO P4400.82_
13. MCO 3000.11_
14. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2004 MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and references.

STANDARD(S): Ensure the quantity, serviceability, and accountability of all information sources are maintained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Register requirements.
3. Manage publications control program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P5215.1_
2. MCO 5600.31_
3. Table of Organization & Equipment (T/O&E)
4. UM-PLMS

5. SL 1-2/Sl 1-3
6. UM-MCPDS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2005 MONITOR MAINTENANCE SHOP-LEVEL MOS TRAINING PROGRAM

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, personnel records, and mission requirements.

STANDARD(S): Ensure Ordnance maintenance personnel are trained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCE(S):

1. MCO 1510 Series, Individual Training Standard
2. MCO P4790.2_
3. MCO 1553.3_
4. MCO 1553.2_
5. MCRP 3-OA Unit Training Management
6. MCRP 3-OB How to Conduct Training
7. MCWP 4-1
8. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2006 MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, and references.

STANDARD(S): Ensure support equipment is utilized and maintenance programs are implemented.

PERFORMANCE STEPS:

1. Validate requirements.
2. Ensure control procedures are established.
3. Ensure Preventive Maintenance Checks and Services(PMCS) is conducted.
4. Ensure corrective maintenance is conducted.
5. Analyze effectivness of support program.

REFERENCE(S):

1. MCO P4790.2_
2. TM 4700-15/1_
3. MCO 4733.1_
4. MCO P4790.2_
5. TI 4733-15/1_
6. TI 4733-15/11_
7. Current MARADMINs
8. Applicable Technical Information
9. Table of Organization & Equipment (T/O&E)
10. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibration equipment). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2007 MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, unit budget, mission requirements and references.

STANDARD(S): Ensure proper supply procedures are adhered to per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate supply support requirements.
2. Coordinate requisition procedures.
3. Direct the accountability of all repair parts.
4. Direct validation procedures.
5. Direct reconciliation procedures.
6. Coordinate with internal supply support agencies.
7. Coordinate with external supply support agencies.
8. Validate budget requirements.

REFERENCE(S):

1. MCO P4400.82_
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 8300.1_
5. MCO 4340.1_
6. MCO P4400.150_
7. MCO 4400.16_
8. UM 4400-124
9. Local Policies and Procedures
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2008 MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, maintenance facilities, mission requirements and references.

STANDARD(S): Ensure that maintenance facilities are established per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission.
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. Applicable Technical Information
4. MCO P11262.2_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2009 MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD(S): Ensure that maintenance production flow is accomplished per the mission requirements, resources, and references.

PERFORMANCE STEPS:

1. Validate production capability.
2. Prioritize maintenance effort.
3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCE(S):

1. MCO P4790.1_

2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000
5. Table of Organization & Equipment (T/O&E)
6. Applicable Technical Information
7. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2010 MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure that maintenance related programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Manage Product Quality Deficiency Report (PQDR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistic Support (CLS).
7. Manage execution of warranty programs.
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives Program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO 4733.1_
3. MCO 4855.10_
4. MCO P4790.1_
5. MCO 4105.2_
6. MCO 1650.17_
5. MCO P4790.3_
6. MCO 3000.11_
7. MCO 4790.18
8. MCBUL 3000
9. TM 4795-12
10. TM 4795-34
11. TM 4750-15/1
12. DOD 4160.21-M-1
13. Applicable Unit Logistics Support Summary (ULSS)
14. Applicable Technical Information
15. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2011 MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000
5. MCO 4400.16_
6. TM 4700-15/1_
7. Applicable Technical Information
8. Local policies and procedures
9. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2012 MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Analyze quality control effectiveness.

5. Coordinate with external maintenance activities.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCO 4400.16_
5. MCO 4400.82_
6. MCO 4400.150_
7. MCBUL 3000
8. TM 4700-15/1_
9. Local Policies and Procedures
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2013 MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment requiring modification.
2. Monitor modification program.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P4790.1
3. Table of Organization & Equipment (T/O&E)
4. TM 4700-15/1_
5. Applicable MI’s

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2014 MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: Ensure environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate environmental compliance requirements.
2. Coordinate with unit environmental compliance representative.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:

1. 29 CFR 1910.12000_
2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2015 MANAGE SHOP SAFETY PROGRAM

CONDITION(S): Given the references, automated systems with internet access, and a maintenance facility.

STANDARD(S): Ensure shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCE(S):

1. 29 CFR 1910.12000_

2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs and industrial hygiene. See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2016 MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCE(S):

1. MSE/Unit embarkation
2. Table of Organization & Equipment (T/O&E)
3. MCO 4030.16_
4. MCO 4030.19_
5. MCO 4030.25_
6. MCO 4030.33_
7. MCO 4030.36_
8. MCO 4110.2
9. MCO 4400.16_
10. MCO P4400.150_
11. MCO P4600.14_
12. MCO P4600.19_
13. MCO 4600.25_
14. MCO 4600.30_
15. MCO 4610.15_

16. MCO P4610.19_

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2017 MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:

1. MCO P4790.2_
2. Current ALMARs
3. Current MARADMINs
4. Applicable Technical Information
5. Local Policies and Procedures
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, Supply System II+ (ATLASS II+),and Defense Message System (DMS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2018 PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to be published.

STANDARD(S): Ensure routine correspondence, messages, staff papers, and policy letters are completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Prepare correspondence, as required.
2. Prepare messages, as required.
3. Prepare reports, as required.
4. Prepare staff papers, as required.
5. Prepare policy letters, as required.
6. Review all correspondence submitted by subordinates.
7. Direct correspondence filing procedures.
8. Staff correspondence to higher and adjacent agencies.

REFERENCE(S):

1. MCO P1070.12
2. SECNAVINST 5216.5
3. MCWP 3-1
4. Local policies and procedures
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2019 MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records, and ground ordnance equipment storage facilities.

STANDARD(S): Ensure ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
2. Conduct AA&E personnel screenings.
3. Analyze effectiveness of security programs.

REFERENCE(S):

1. MCO 5530.14_
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 8300.1
7. Current ALMARs
8. Current MARADMINs
9. Applicable Technical Information
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-ADMN-2020 ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): Ensure equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.

REFERENCE(S):

1. MCO P4790.2_
2. Applicable Technical Information
3. Applicable Unit Logistics Support Summary (ULSS)
4. MCO 4420.15_
5. MCO 8300.1_, Marine Corps Serialized Control Of Small Arms System
6. MCO P4400.82_
7. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

DUTY AREA 2 TECHNICAL FUNCTIONS

2110-TECH-2001 SERVE AS THE TECHNICAL ADVISER FOR THE FAMILY OF GROUND ORDNANCE VEHICLES

CONDITION(S): Provided with guidance and command philosophy from the Commanding Officer and his staff in accordance with the references.

STANDARD(S): Ensure unit readiness is sustained at an acceptable level and provide recommendations to the Commanding Officer regarding operations and maintenance of ground ordnance equipment.

PERFORMANCE STEPS:

1. Prepare information on all matters relating to ordnance vehicles.
2. Provide guidance on all matters relating to ordnance vehicles.
3. Provide recommendations on all matters relating to ordnance vehicles.
4. Conduct internal reviews.

REFERENCE:

1. 29 CFR 1910.12000_
2. Applicable MI’s
3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 Series, Individual Training Standards
12. MCO 1553.2, Management For Marine Corps Formal Schools And Training Centers
13. MCO 1553.3, Unit Training Management (UTM)
14. MCO 1650.17_, Marine Corps Military Incentive Awards Program
15. MCO 3000.11, Marine Corps Automated Readiness Evaluation System
17. MCO 4030.16_, Packaging And Packaging Maintenance Of Small Arms Weapons Using V....
17. MCO 4030.19_
18. MCO 4030.25_, Responsibilities For Technical Escort Of Dangerous Materials
19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_
52. MCO P4600.19_

53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA UNIT TRAINING MANAGEMENT
60. MCRP 3-OB HOW TO CONDUCT TRAINING
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_
75. TM 4795-12
76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

2110-TECH-2002 PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF THE FAMILY OF GROUND ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records and maintenance facilities.

STANDARD: Ensure maintenance of ordnance vehicles is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions.
5. Manage maintenance effort.
6. Manage maintenance personnel.
7. Ensure safety of personnel.
8. Analyze effectiveness of administrative functions.
9. Focus ground ordnance equipment maintenance efforts to maximize combat effectiveness

REFERENCE(S):
1. MCO 4790.2_, MIMMS Field Procedures Manual
2. MCWP 4-11, Tactical-Level Logistics
3. MCWP 4-24, Maintenance Operations

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-TECH-2003 PERFORM DUTIES AS LOAD TEST CERTIFICATION OFFICER

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment and equipment records.

STANDARD: Ensure load testing is conducted, certified, and maintained per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate load test condition inspection requirements.
2. Establish a load test certification schedule.
3. Certify annual condition inspections.
4. Assign test director.
5. Assign test inspectors.
6. Coordinate load testing with supporting agencies.
7. Analyze effectiveness of administrative functions.

REFERENCE(S):

1. MCO P11240.106_
2. MCO P11262.2_
3. NAVFAC P307_
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (standard) Sustainment (24) Req by (WO)

2110-TECH-2004 DIRECT RECOVERY OPERATIONS FOR GROUND ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and equipment.

STANDARD: Ensure recovery of vehicle is safely accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Supervise recovery training.
2. Validate recovery requirements.
3. Validate Battle Damage Assessment and Repair (BDAR).

4. Validate ORM for recovery.
5. Provide technical guidance to the commander for recovery operations.
6. Supervise recovery operations.
7. Analyze effectiveness of administrative functions.
8. Analyze recovery operations effectiveness.

REFERENCES:

1. MCO P4790.2_
2. TI- 8005-25/12
3. FMFRP 4-34
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-TECH-2005 MANAGE LICENSING PROGRAM FOR GROUND ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel records and equipment.

STANDARD: Ensure required personnel are trained and licensed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate licensing requirements.
2. Maintain the licensing program.
3. Validate ORM.
4. Analyze effectiveness of licensing program.

REFERENCE(S):

1. MCO 8400.6_
2. Applicable Technical Information
3. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-TECH-2006 MANAGE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR GROUND ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and NAVMC 10561.

STANDARD: Ensure oil analysis is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment requiring oil analysis.
2. Analyze results.
3. Direct corrective action.
4. Analyze effectiveness of administrative functions.

REFERENCES:

1. MCO 4790.2_
2. TI 4731-14/1C
3. MCO 4731.1
4. TM 4700-15/1_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2110-TECH-2007 MANAGE UNIT AMMUNITION CONTROL PROGRAM

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), ammunition records, ammunition, and personnel.

STANDARD: Ensure mission requirements are sustained per the references.

PERFORMANCE STEPS:

1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition handling procedures are adhered to
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers certification.

REFERENCE:

1. MCO 1510.78_
2. MCO 4340.1_
3. MCO 8010.1_
4. MCO 8020.10_
5. MCO 8025.1_
6. MCBul 8011
7. UM 4400-15
8. NAVSEA SWO20-AC-SAF-010
9. NAVSEA SW020-AF-ABK-010
10. NAVSEA TWO24-AA-ORD-010

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

MOS 2111

SMALL ARMS REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR MAINTENANCE

2111-OPRM-1001 MAINTAIN ARMORY SUPPORT EQUIPMENT

CONDITION(S): Given applicable equipment, cleaning materials, applicable current authorized technical information, automated systems with internet access in a garrison or field environment

STANDARD(S): Ensure armory support equipment is serviceable and ready for use per the references.

PERFORMANCE STEPS:

1. Inspect/use/maintain tools.
2. Inspect/use/maintain test equipment.
3. Inspect/use/maintain pullover gage kit.
4. Inspect/use/maintain M3 borescope.
5. Inspect/use/maintain Test Set Electrical Systems TS-4348.
6. Inventory kits, sets, chests, and equipment as required and complete applicable forms and records.
7. Requisition required items with supporting supply source.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. MCO P5090.2, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
3. SC 518-95-CL-AO7, Small Arms Repairer Tool Kit
4. SL-3-00607A, Tool Kit, Small Arms Repairer
5. TM 4700-15/1, Ground Equipment Record Procedures Manual
6. TM 9-243, Common Tools Manual
7. TM 9-4933-258-13&P, Pullover Gage Kit
8. TM 9-6650-235-13&P, M3 Borescope

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

DUTY AREA 02 - MAINTAIN ARMORY SMALL ARMS AND OPTICAL DEVICES

2111-MAIN-1001 MAINTAIN M9 9MM SEMIAUTOMATIC PISTOL

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure pistols are fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform scheduled preventive maintenance checks and services (PMCS).
5. Identify/isolate problem.
6. Repair/replace unserviceable parts and/or components.
7. Secure/store weapon.
8. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 1005A-23&P/2A, Pistol Semiautomatic 9MM M9
3. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1002 MAINTAIN 12 GAUGE SERIES SHOTGUNS

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure shotgun is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1, Ground Equipment Record Procedures Manual
4. Required Technical information for current 12 gauge shotguns.

ADMINISTRATIVE INSTRUCTIONS: The reference with current technical information for current 12 gauge series shotgun(s). Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1003 MAINTAIN 5.56MM SERVICE RIFLE(S)

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure 5.56MM service rifle is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. Required Technical information for current 5.56mm Service rifles
3. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: The 5.56MM Service Rifle includes but not limited to the M16A2 and M4 series. Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1004 MAINTAIN .50 CALIBER SPECIAL APPLICATION SCOPE RIFLE (SASR)

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M82A1A caliber scoped rifle is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).

5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records.

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. Required Technical Information current with .50 Caliber (SASR)
3. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1005 MAINTAIN M203 40MM GRENADE LAUNCHER

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M203 grenade launcher is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete required maintenance administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1, Ground Equipment Record Procedures Manual
4. TM 9-1010-221-24&P, M203 Grenade Launcher

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1006 MAINTAIN M1911A1 .45 CALIBER MEU (SOC) PISTOL

CONDITION(S): Given assigned tools, applicable equipment, current authorized technical information, automated systems with internet access in a garrison and field environment.

STANDARD(S): Ensure M1911A1 .45 Cal. MEU (SOC) Pistol is fully operational per the references.

PERFORMANCE STEPS:

1. Clear the Weapon
2. Perform Function Check
3. Perform pre-fire inspection (PFI)
4. Perform limited technical inspection (LTI)
5. Perform Preventive maintenance checks and services (PMCS)
6. Identify/isolate problem.
7. Repair/replace unserviceable parts
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable

REFERENCES:

1. TI 8005-24/20
2. TM 00526X-24&P/2
3. TM 4700-15/1

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (Pvt)

2111-MAIN-1007 MAINTAIN M249 5.56MM SQUAD AUTOMATIC WEAPON (SAW)

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M249 5.56MM (SAW) is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 08671A-23-&P/2A, Machine Gun 5.56MM M249
4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1008 MAINTAIN M240 SERIES 7.62MM MACHINE GUNS

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M240 machine gun is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media. The Formal School instructs the M240G to a Standard. Units are required to instruct to a Standard, via MOJT, the other variants of the M240 machine gun within their inventory.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1009 MAINTAIN ALL VARIANTS OF .50 CALIBER MACHINE GUN

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure .50 caliber machine gun is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 02498A-23&P, M2 Gun, Machine
4. TM 10152A-24&P, M3P 50 Caliber Machine Gun
5. TM 4700-15/1, Ground Equipment Record Procedures Manual
6. TM 10004-25&P/2B

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media. The Formal School instructs the M2 to a Standard, M3P to a Preliminary. Units are required to instruct to a Standard, via MOJT, the other variants of the .50 Cal., machine gun within their inventory.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1010 MAINTAIN MACHINE GUN MOUNTS

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M3 tripod mount is fully operational per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform preventive maintenance checks and services (PMCS).
3. Repair/replace unserviceable parts.
4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TM 4700-15/1, Ground Equipment Record Procedures Manual
2. TM 9-1005-13&P/1, Machine Gun Mounts

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media. The Formal School instructs the M3, M122, MK64, T&E, and M240G flex mount to a Standard. Units are required to instruct to a Standard, via MOJT, the other variants of the Mounts within their inventory.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1011 MAINTAIN MK19 40MM MACHINE GUN VARIANTS

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure all variants of the MK19 40MM is operational per the references.

PERFORMANCE STEPS:

1. Clear weapon
2. Perform function check
3. Perform limited technical inspection (LTI)
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Identify/isolate problem.
7. Repair/replace unserviceable parts and/or components.
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TB 9-1000-247-34, Overseas Shipment of Small Arms
2. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 08521A-23&P/2A, Machine Gun 40MM MK19 MOD 3
4. TM 4700-15/1, Ground Equipment Record Procedures Manual
5. TM 10004-25&P/2B

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media. The MK19 variants include MK19 MOD 3 and the variant for the AAV-P7 (A1). The Formal School instructs the MK19 Mod 3 to a Standard and the Up Gun Weapon (UGW) variant is instructed to a Preliminary. Units are required to instruct to a Standard, via MOJT, the other variants of the MK19 40MM machine gun within their inventory.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1012 MAINTAIN MK 153 83MM ROCKET LAUNCHER

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure MK 153 83MM rocket launcher is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Boresight weapon.
6. Perform preventive maintenance checks and services (PMCS).
7. Identify/isolate problem.
8. Repair/replace unserviceable parts and/or components.
9. Secure/store weapon.
10. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TM 08673A-25&P/2A, Launcher, Assault Rocket 83mm (SMAW)
2. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1013 MAINTAIN M224 60MM MORTAR WITH BIPOD AND BASE PLATES

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M224 mortar is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Perform borescope procedure.
7. Perform pullover gage procedure.

8. Identify/isolate problem.
9. Repair/replace unserviceable parts and/or components.

10. Secure/store weapon.
11. Complete required maintenance and/or administrative forms and records when applicable

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 08206A-23&P/2 Lightweight Company Mortar 60MM, M224
3. TM 9-1000-202-14 Evaluation of Cannon Tubes
4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1014 MAINTAIN M252 81MM MORTAR WITH BIPOD AND BASE PLATE

CONDITION(S): Given assigned tools, applicable equipment, and current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M252 mortar is fully operational per the references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform limited technical inspection (LTI).
3. Perform pre-fire inspection (PFI).
4. Perform preventive maintenance checks and services (PMCS).
5. Perform borescope procedure.
6. Perform pullover gage procedure.
7. Identify/isolate problem.
8. Repair/replace unserviceable part and/or components.
9. Secure/store weapon.
10. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 09922A-23&P/2, 81MM Mortar M252
3. TM 9-1000-202-14 Evaluation of Cannon Tubes
4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1015 MAINTAIN GROUND ORDNANCE OPTICAL DEVICES

CONDITION(S): Given optical equipment, current authorized technical information and automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure ground ordnance optical devices are serviceable per the references.

PERFORMANCE STEPS:

1. Perform operations check.
2. Perform preventive maintenance checks and services (PMCS) on optical devices.
3. Repair/replace unserviceable parts.
4. Secure/store weapon.
5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TM 4700-15/1, Ground Equipment Record Procedures Manual
2. Required technical information for on hand optical devices

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. The FLC instructs the following optical systems AN/PVS-7, AN/PVS-14, AN/PVS-4, AN/TVS-5, laser boresight, M49 observations telescope, compass, binoculars. Units are required to instruct to a Standard, via MOJT, the other variants of ground ordnance optical items within their inventory. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (Pvt)

2111-MAIN-1016 MAINTAIN M40 SERIES SNIPER RIFLE

CONDITION(S): Given assigned tools, applicable equipment, and applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure M40 Series Sniper rifle is fully operational per the references

PERFORMANCE STEPS

1. Clear the weapon
2. Perform function check.
3. Perform limited technical inspection (LTI).
4. Perform pre-fire inspection (PFI).
5. Perform preventive maintenance checks and services (PMCS).
6. Secure/store weapon.
7. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TI 8005-24/20, Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 05539C-23&P, M40A1 Sniper Rifle 7.26
3. TM 4700-15/1, Ground Equipment Record Procedures Manual
4. Required technical information for the current M40 series sniper rifle

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (Pvt)

2111-MAIN-1017 MAINTAIN 7.62MM M14 DESIGNATED MARKSMAN RIFLE (DMR)

CONDITION(S): Given tools, equipment, current authorized technical information, automated systems with internet access in a garrison and field environment.

STANDARD(S): Ensure Designated Marksman Rifle (DMR) is fully operational per the references.

PERFORMANCE STEPS:

1. Clear the Weapon
2. Perform function check
3. Perform pre-fire inspection (PFI)
4. Perform limited technical inspection (LTI)
5. Perform preventive maintenance checks and services (PMCS)
6. Identify/isolate problem.
7. Repair/replace unserviceable parts
8. Secure/store weapon.
9. Complete required maintenance and/or administrative forms and records when applicable

REFERENCES:

1. TI 8005-24/20
2. TM 00648C-24&P/2
3. TM 4700-15/1_

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to 2nd echelon of maintenance for MOS 2111, MOS 2112 performs all 3rd echelon of maintenance and above. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req By (Pvt)

2111-MAIN-1018 MAINTAIN M82A3

CONDITION(S): Given an M82A3, tool box, and M82A3 inspection checklist.

STANDARD(S): Ensure weapon is fully operational per the inspection checklist.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Identify all unserviceable parts or components.
5. Disassemble weapon.
6. Replace all unserviceable parts and/or components.
7. Assemble weapon.
8. Collimate weapon.
9. Perform final inspection.
10. Perform function test.
11. Secure/store the weapon.
12. Complete all required forms/and records.

REFERENCE(S):

1. TM 09629A-23&P/2A, SASR, 50 Caliber M82A3

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req By (Cpl)

DUTY AREA 03 - SECURITY FUNCTIONS

2111-SEC-1001 ENSURE WEAPON SECURITY DURING TRANSPORTATION

CONDITION(S): Given weapons and ammunition requiring transportation to and/or from an armory and current authorized technical information, automated systems with internet access.

STANDARD(S): Ensure weapon security is accomplished accurately and safely per the references.

PERFORMANCE STEPS:

1. Verify that the units picking up or delivering weapons/ammunition have adequate armed guards.
2. Ensure security discrepancies are corrected prior to allowing weapons/ammunition to leave the armory.
3. Report all security violations through the chain of command.

REFERENCE(S):

1. MCO 5500.6, Arming of Security and Law Enforcement (LE) Personnel and the Use of Force

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2111-SEC-1002 ENSURE SECURITY OF PERSONALLY OWNED WEAPONS AND AMMUNITION

CONDITION(S): Given an armory facility, personally owned weapons and/or ammunition, and current authorized technical information, automated systems with internet access.

STANDARD(S): Provide safe storage, documentation, and issue and recovery procedures per the references.

PERFORMANCE STEPS:

1. Ensure proper documentation is completed for personally owned weapons and ammunition.
2. Accurately annotate brand name and condition of all privately owned gear turned in.
3. Ensure personally owned weapons and ammunition are safely and securely maintained.
4. Ensure appropriate procedures are established for issue and recovery of personally owned weapons and ammunition.

REFERENCE(S):

1. Local policies/procedures
2. MCO 8300.1, USMC SERIAL CNTL SM ARMS SYS
3. OPNAVINST 5530.13, Physical Security of Arms, Ammunition, and Explosives

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (12) Req By (Pvt)

2111-SEC-1003 PERFORM ARMORY PROCEDURES

CONDITION(S): Given an armory, equipment, personnel, current authorized technical information and automated systems with internet access in a garrison or field environment.

STANDARD(S): Ensure armory procedures are accomplished per the references.

PERFORMANCE STEPS:

1. Ensure security ammunition is properly stored.
2. Ensure security ammunition is properly issued and recovered.
3. Complete required accountability inventories for armory AA&E.
4. Complete required armory NAVMC forms and records.
5. Physically issue/recovery AA&E assets.
6. Comply with armory security procedures.
7. Maintain armory desktop procedures.

REFERENCE(S):

1. TM 4700-15/1, Ground Equipment Record Procedures Manual
2. OPNAVINST 5530.13
3. MCO 5500.6_
4. MCO P5530.14
5. MCO P4790.2_

6. MCO P4400.150_
7. MCO 8020.10
8. UM 4400.124_
9. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

CURRENT MCI(S):

1. MCI 21.24, Armory Procedures

Recommendation: This task replicates the duties that Corporals and below are required to perform on a daily basis.

2111-SEC-1004 MAINTAIN ARMORY PHYSICAL SECURITY

CONDITION(S): Given an armory, current technical information, automated systems with internet access and security ammunition in a field or garrison environment.

STANDARD(S): Ensure armory is in compliance with the references.

PERFORMANCE STEPS:

1. Identify physical security requirements
2. Evaluate physical security references
3. Enforce physical security procedures
4. Maintain Arms, Ammunition & Explosives (AA&E) screenings records
5. Conduct physical security training
6. Ensure accountability of (AA&E) within Armory
7. Correct noted discrepancies

REFERENCES:

1. MCO P5530.14_
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 4340.1_
7. MCO 8300.1_
8. Current ALMARs
9. Current MARADMINs
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)
12. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

DUTY AREA 04 – ADMINISTRATIVE FUNCTIONS

2111-ADMN-1001 COMPLY WITH RADIOLOGICAL PROGRAM

CONDITION(S): Given radiological material, automated systems with internet access, in both a field and garrison environment, and technical manuals.

STANDARD(S): Ensure radiological safety program includes all assets containing radiological material be stored, used and maintained safely and prevent accidents which may result from exposure to tritium or other radiological sources in a garrison or field environment per the references.

PERFORMANCE STEPS:

1. Identify on hand assets containing radiological material.
2. Utilize required/recommended handling protection when working with unserviceable assets containing radiological material.

REFERENCE(S):

1. NAVSEATM-50420-AA-RAD-010
2. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
3. MCO 5104.2, Marine Corps Radiofrequency Electromagnetic Field Personnel Protection Program
4. MCO P4400.105, Radioactive Commodities DOD Systems
5. TI-5104-15/2, Special Handling Considerations Tritium Fire Control
6. TI 01592C-15/1_
7. SI 01592C-14/1_
8. TI 5104-15/1_

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2111-ADMN-1002 FOLLOW BASIC SHOP PROCEDURES

CONDITION(S): Given common tools, power tools, precision measuring tools, and current authorized technical information, automated systems with internet access.

STANDARD(S): Maintain assigned work area in the accomplishment of maintenance assignments per the references.

PERFORMANCE STEPS:

1. Organize tools and equipment within work area.
2. Follow instructions for care of tools.
3. Comply with safety regulations.
4. Comply with hazardous material regulations.
5. Comply with LASER safety procedures

REFERENCE(S):

1. Material safety data sheets for hazardous materials
2. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
3. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
4. FM 9-243, USE AND CARE OF HAND TOOLS AND MEASURING TOOLS
5. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
6. TM 10209-10/1, Use and Care of Hand and Measure Tools
7. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must: (1) have been provided information and training to work with the hazardous chemical prior to their initial assignment; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2111-ADMN-1003 FOLLOW BASIC MAINTENANCE PROCEDURES

CONDITION(S): Given equipment repair records and forms and the references.

STANDARD(S): Validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Utilize required publications and directives.
2. Adhere to Modification Instructions.
3. Adhere to Calibration procedures.
4. Complete necessary maintenance management forms needed to document work.

REFERENCE(S):

1. MCO P4790.2_ MIMMS FIELD PROCEDURES MANUAL
2. TM 4700-15/1_ Ground Equipment Record Procedures Manual
3. UM 4790-5 MIMMS AIS Field Maintenance Procedures
4. UM 4400-124 FMF SASSY Using Unit Procedures
5. MCO P5215.17_ The Marine Corps Technical Publications System
6. NAVMC 2761 Catalog of Publications
7. SL-1-2
8. SL-1-3
9. TI-4733-15/1_ Calibration Requirements Marine Corps TMDE Calibration and Maintenance Program
10. TI-4733-15/11_
11. MCO 4733.1_
12. MCO P4400.150_

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

CURRENT MCI(S):

1. MCI 04.10, MIMMS-AIS (Maintenance Automated Information System)

2111-ADMN-1004 MAINTAIN ARMORY FUNCTIONAL AREAS

CONDITION(S): Given an armory, current technical information, automated systems with internet access, security ammunition, and personnel in a field or garrison environment.

STANDARD(S): Ensure functional areas are maintained per the references.

PERFORMANCE STEPS:

1. Maintain calibrations control program
2. Maintain tool control program
3. Maintain desktop/turnover procedures.
4. Maintain modification control program
5. Maintain preventive maintenance program
6. Maintain corrective maintenance program
7. Maintain quality control program
8. Maintain training program
9. Maintain embark program
10. Apply armory operational risk management (ORM)

REFERENCES:

1. MCO 1510.65B
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 4733.1_
5. MCO P4400.150
6. TI 4733-15/1_
7. TI 4733-15/11_
8. TI 8000 Series
9. Applicable MI’s
10. Current MARADMINs
11. Applicable Technical Information
12. MCO 4400.16_
13. UM 4790-5

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repair limited authorized echelon of maintenance.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

2111-ADMN-1005 MAINTAIN MAINTENANCE TRANSACTION REPORTS

CONDITION(S): Given current technical information and automated systems with internet access in a field or garrison environment.

STANDARD(S): Ensure armory maintenance transactions reports are updated per the references.

PERFORMANCE STEPS:

1. Analyze DPR
2. Verify transactions on the DTL
3. Verify exception reports
4. Verify LM2 report
5. Verify TAM report
6. Submit maintenance transactions
7. Conduct required reconciliation's

REFERENCES:

1. MCO 4400.16
2. MCO P4790.2
3. TM 4700-15/1
4. UM 4790-5
5. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+). Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req (Sgt)

2111-ADMN-1006 MAINTAIN ARMORY PUBLICATION AND DIRECTIVES PROGRAM

CONDITION(S): Given current technical information and automated systems with internet access in a field or garrison environment.

STANDARD(S): Ensure required publications and directives are on hand to accomplish the mission per the references.

PERFORMANCE STEPS:

1. Maintain publications requirements based on mission and T/E.
2. Maintain publications and directives on hand.
3. Determine deficiencies.
4. Take corrective actions as required.
5. Maintain armory publication and directives control procedures.

REFERENCE(S):

1. MCO P4790.2, MIMMS FIELD PROCEDURES MANUAL
2. MCO P5215.17, USMC TECHNICAL PUBLICATIONS SYSTEM
3. MCO P5600.31, MARINE CORPS PUBLICATIONS AND PRINTING REGULATIONS
4. NAVMC 2761, CATALOG OF PUBLICATIONS
5. SL-1-2, Index of Authorized Publications for Equipment Support
6. SL-1-3, Index of Authorized Publications for Equipment Support
7. TI 5600, Publication Info MC Equipment
8. TM 4700-15/1, Ground Equipment Record Procedures Manual
9. UM-PLMS

10. MCO P5215.1_

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

2111-ADMN-1007 MAINTAIN MAINTENANCE MANAGEMENT TRAINING PROGRAM

CONDITION(S): Given training records, schedules, and the references.

STANDARD(S): Ensure training is properly conducted and documented per the references.

PERFORMANCE STEPS:

1. Maintain maintenance management administrative training.
2. Schedule technical maintenance training.

REFERENCE(S):

1. Applicable equipment technical manuals
2. MCO P4790.2, MIMMS Field Procedures Manual

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (12) Req By (Pvt)

2111-ADMN-1008 MAINTAIN MAINTENANCE RECORDS AND REPORTS

CONDITION(S): Provided various maintenance reports, records, and references.

STANDARD(S): Ensure records are correct and processed per the references.

PERFORMANCE STEPS:

1. Review Daily Process Report (DPR).
2. Review Daily Transaction Listing.
3. Review Table of Authorized Material (TAM) report.
4. Review Weekly Exception Report.
5. Initiate corrective action for errors on all MIMMS reports.

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. UM 4400-124, FMF SASSY Using Unit Procedures

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (12) Req By (Pvt)

MOS 2112

PRECISION WEAPONS REPAIRER

DUTY AREA 01 - OPERATING MACHINE SHOP EQUIPMENT

2112-0PRM-2001 OPERATE ARBOR PRESS

CONDITION(S) Given an Arbor Press, slide, barrel bushing, safety equipment, Precision Weapons Repairer Tool Kit,, reference, and shop drawings

STANDARD(S): Ensure bushing will fit in accordance with reference.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Select proper arbor.
3. Perform operation.
4. Inspect fit.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TM 00526a-10/1
3. TM 00526A-24 & P/2
4. MEUSOC Build Procedures
5. TI 8005-24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2002 OPERATE BAND SAW

CONDITION (S) Given a Band Saw, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): in accordance with references and not to exceed more than 1/8" material left over shop drawings.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Check blade on band saw.
4. Determine proper band speed.
5. Perform cutting operation.
6. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. TC 9-524, Fundamentals of Machine Tools
3. TM 9-3419-224-10 Operators Manual, Saw, Band Metal Cutting
4. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2003 OPERATE BEAD BLASTER

CONDITION (S) Given a Bead Blaster, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): so that the work piece will have a clean uniform finish in accordance with references.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Place work piece inside bead blaster.
3. Bead blast material.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2004 OPERATE BELT SANDER

CONDITION (S) Given a Belt Sander, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): in accordance with references and not to exceed more than 1/8″ material left over shop drawings.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Sand work piece.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2005 OPERATE BENCH GRINDER

CONDITION(S): Given a Bench Grinder, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD(S): So that the work piece is in accordance with references to drawing tolerances.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Adjust tool rest.
4. Perform grinding operation.
5. Inspect work piece

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2006 OPERATE DISK SANDER

CONDITION(S): Given a Disk Sander, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD(S): So that the work piece is in accordance with references and not to exceed more than 1/8″ material left over shop drawings.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Sand work piece.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2007 OPERATE DRILL PRESS

CONDITION(S): Given a Drill Press, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD(S): So that the work piece is in accordance with references to drawing tolerance.

PERFORMANCE STEPS:

1. Observe safety procedures.

2. Layout work piece.

3. Select cutting speed.

4. Perform drill operation.

5. Inspect work piece

REFERENCE(S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools Pages 4-1 To 4-24; A8
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2008 OPERATE ROTARY TOOL

CONDITION(S): Given a Rotary Tool, work piece, safety equipment, Precision Weapons Repairer Tool Kit, and references,

STANDARD(S): So that the work piece is in accordance with references.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Perform operation using rotary tool.
3. Inspect work piece.

REFERENCE(S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. TI 00526A-25/2B
3. TI 00526-24/3C
4. TM 9-1005-211-12P
5. TM 9-1005-211-35
6. Nation Match .45 Cal Pistol Build Procedures
7. TI 8005–24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2009 OPERATE HEAT TREATMENT OVEN

CONDITION(S): Given a Heat Treatment Oven, work piece, Rockwell hardness tester, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD(S): So that the work piece is in accordance with references to drawing tolerances

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Set oven controls for operation.
3. Perform heat treating procedures, quenching, and tempering as required.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. TC 9-524, Fundamentals of Machine Tools
3. Machinist Handbook, 26th Edition
4. TO 1-1A9-9 TM 43-01-06 NAVAIR 01-1A3 Aerospace Metals – General Data and Usage Factors

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2010 OPERATE HYDRAULIC PRESS

CONDITION (S) Given a Hydraulic Press, work piece, safety equipment, Precision Weapons Repairer Tool Kit, and references

STANDARD (S): so that work piece is in accordance with references.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Adjust table height.
3. Select proper holding fixture.
4. Perform pressing or squeezing operation.
5. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. NM 1911 .45 Build Procedures
3. TM 02648C – 24 & P/2
4. DMR Build Procedures
5. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2011 OPERATE LATHE

CONDITION (S) Given a Lathe, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, lathe cutting tools, and shop drawings

STANDARD (S): so that work piece is in accordance with references to drawing tolerance.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Set up lathe for operation.
4. Face material on the lathe.
5. Turn material on the lathe.
6. Perform threading operations on the lathe.
7. Perform Drilling operation on the lathe.
8. Bore on the lathe.
9. Knurl on the lathe.
10. Polish on the lathe.
11. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2012 OPERATE MILLING MACHINE

CONDITION (S) Given a Milling Machine, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, mill cutting tools, and shop drawings

STANDARD (S): so that work piece is in accordance with references to drawing tolerance.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Set up mill for operation.
4. Perform facing operation on the mill.
5. Perform contouring operation on the mill.
6. Perform pocketing operation on the mill.
7. Perform angle cutting on the mill.
8. Drill using the mill.
9. Inspect work piece

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2013 OPERATE OXYACETYLENE EQUIPMENT

CONDITION (S) Given an Oxyacetylene Welding Equipment,, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): so that work piece is in accordance with references

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Set up equipment.
3. Perform oxyacetylene operation.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools

2. TC 0-237 Welding Theory and Application

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-OPRM-2014 OPERATE POLISHING MACHINE

CONDITION (S) Given a Polishing Machine, work piece, safety equipment, Precision Weapons Repairer Tool Kit, and references

STANDARD (S): so that work piece will have a polished and smooth finish.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Select proper polishing compound.
3. Polish piece to desired finish.
4. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req by (Cpl)

2112-0PRM-2015 OPERATE ROCKWELL HARDNESS TESTER

CONDITION (S) Given a Rockwell Hardness Tester, test block, safety equipment, Precision Weapons Repairer Tool Kit, and references

STANDARD (S): so that a proper reading is obtained.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Check tester with test block for hardness range.

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools
3. Machinist Handbook, 26th Edition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2016 OPERATE SURRFACE GRINDER

CONDITION (S) Given a Surface Grinder, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): so that work piece is in accordance with references to drawing tolerance.

PERFORMANCE STEPS:

1. Observe safety procedures.

2. Layout work piece.

3. Perform grinding operation.

4. Inspect work piece

REFERENCE (S):

1. FM 9-243, Use And Care Of Hand Tools And Measuring Tools
2. TC 9-524, Fundamentals Of Machine Tools

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2017 OPERATE PLASMA CUTTER

CONDITION (S) Given a Plasma Cutter, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): so that work piece is in accordance with references and not to exceed more than 1/8″ material left over shop drawings.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Select proper tip.
4. Select proper amperage.
5. Perform cutting operation.
6. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. TC 9-524, Fundamentals of Machine Tools
3. TC 0-237 Welding Theory and Application

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-0PRM-2018 OPERATE CHOP SAW

CONDITION (S): Given a Chop Saw, work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, and shop drawings

STANDARD (S): so that work piece is in accordance with references and not to exceed more than 1/8″ material left over shop drawings.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Layout work piece.
3. Set up stock.

4. Cut material.
5. Inspect work piece.

REFERENCE (S):

1. FM 9-243, Use and Care of Hand Tools and Measuring Tools
2. TC 9-524, Fundamentals of Machine Tools

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

DUTY AREA 02 – BUILDING WEAPONS

2112-BLDG-2001 BUILD A NATIONAL MATCH M1911 .45 CALIBER PISTOL

CONDITION (S) Given a standard M1911A1 .45 Caliber pistol, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M1911A1 match condition replacement parts, test facilities, .45 caliber ammunition, and general shop supplies

STANDARD (S): in accordance with references so that the weapon will fire three (3), ten (10) shot groups, with an average group size of three (3”) inches or less at fifty (50) yards.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Perform match modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Function check weapon.
9. Proof and function fire weapon.
10. Machine rest weapon and perform accuracy test.
11. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TI 00526A-25/2B
2. TI 00526-24/3C
3. TM 9-1005-211-12P
4. TM 9-1005-211-35
5. Nation Match .45 Cal Pistol Build Procedures
6. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 50 yard range with a machine rest.

Ordnance: .45 Caliber High Pressure Ammunition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-BLDG-2002 BUILD A MEUSOC M1911 .45 CALIBER PISTOL

CONDITION (S) Given a standard M1911A1 .45 Caliber pistol, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M1911A1 MEUSOC replacement parts, test facilities, and general shop supplies

STANDARD (S): in accordance with references so that the weapon is fully operational.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Perform MEUSOC modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Function check weapon.
9. Proof and function fire weapon.
10. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM00526A-10/1
2. TM 00526A-24 &P/2
3. MEUSOC Build Procedures
4. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 50 yard range with a machine rest.

Ordnance: .45 Caliber High Pressure Ammunition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-BLDG-2003 BUILD A NATIONAL MATCH M-16 SERIES 5.56MM RIFLE

CONDITION (S) Given a standard M-16 series 5.56mm rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M-16 series match condition replacement parts, test facilities, and general shop supplies

STANDARD (S): in accordance with references so that the weapon will fire three (3), five (5) shot groups, with an average group size of three (3”) inches or less at three hundred (300) yards.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Perform match modifications.
6. Refinish weapon.

7. Reassemble weapon.
8. Function check weapon.
9. Proof and function fire weapon.
10. Machine rest weapon and perform accuracy test.
11. Complete required maintenance and/or administrative forms or records
12. when applicable.

REFERENCE (S):

1. TM 05538C-23 & P/2A
2. National Match M-16 Build Procedures
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 300 yard range with a machine rest.

Ordnance: 5.56 Caliber High Pressure Ammunition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-BLDG-2004 BUILD A M-14/DMR 7.62MM NATO RIFLE

CONDITION (S) Given a standard M-14 7.62MM NATO rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, DMR replacement parts, test facilities, and general shop supplies

STANDARD (S): in accordance with references so that the weapon will fire three (3), five (5) shot groups, with an average group size of three (3”) inches or less at three hundred (300) yards.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Perform DMR modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Function check weapon.
9. Proof and function fire weapon.
10. Machine rest weapon and perform accuracy test.
11. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM 02648C – 24 & P/2
2. DMR BUILD PROCEDURES
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 300 yard range with a machine rest.

Ordnance: 7.62mm Caliber High Pressure Ammunition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-BLDG-2005 BUILD A M-40A3 SNIPER RIFLE

CONDITION (S) Given a Remington model 700 Receiver, safety equipment, Precision Weapons Repairer Tool Kit, ammunition, references, shop equipment, M-40A3 parts, test facilities, and general shop supplies

STANDARD (S): in accordance with references so that the weapon will fire three (3), five (5) shot groups, with an average group size of three (3”) inches or less at three hundred (300) yards.

PERFORMANCE STEPS:

1. Perform LTI.
2. Perform M-40A3 parts modification.
3. Refinish weapon.
4. Assemble M-40A3.
5. Function check weapon.
6. Proof and function fire weapon.
7. Machine rest weapon and perform accuracy test.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM-05539D-24 & P/2, Sniper Rifle, 7.62 M-40A3
2. Sniper Rifle Build Procedures
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 300 yard range with a machine rest.

Ordnance: .45 Caliber High Pressure Ammunition

SUPPORT REQUIREMENTS:

Ranges/Training Areas: 300 yard range with a machine rest.

Ordnance: 7.62mm Caliber High Pressure Ammunition

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-BLDG-2006 CHEMICALLY BLACKEN STEEL

CONDITION (S) Given work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, chemical blackening solution, cleaning solution, chemical blackening stabilizing solution, metal refinishing equipment, and general shop supplies

STANDARD (S): so that work piece has a uniform black shade, in accordance with references.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Set up refinish equipment.
3. Prepare work piece for finishing operation.
4. Refinish work piece.
5. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. Refinishing Procedureds

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

2112-BLDG-2007 PARKERIZE STEEL

CONDITION (S) Given work piece, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, Parkerizing solution, cleaning solution, , metal refinishing equipment, and general shop supplies

STANDARD (S): so that the work piece has a uniform black shade, in accordance with references

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Set up refinish equipment.
3. Bead Blast work piece.
4. Refinish work piece.
5. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. Refinishing Procedures

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

DUTY AREA 03 – MAINTAINING WEAPONS

2112-MAIN-2001 MAINTAIN A NATIONAL MATCH M1911A1 .45 CALIBER PISTOL

CONDITION (S) Given a National Match M1911A1 .45 Caliber pistol, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M1911A1 match condition replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TI 00526A-25/2B
2. TI 00526-24/3C
3. TM 9-1005-211-12P
4. TM 9-1005-211-35
5. Nation Match .45 Cal Pistol Build Procedures
6. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2002 MAINTAIN A MEUSOC M1911A1 .45 CALIBER PISTOL

CONDITION (S) Given a MEUSOC M1911A1 .45 Caliber pistol, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M1911A1 MEUSOC replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM00526A-10/1
2. TM 00526A-24 &P/2
3. MEUSOC Build Procedures
4. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2003 MAINTAIN A NATIONAL MATCH M-16 SERIES 5.56MM RIFLE

CONDITION (S) Given a National Match M-16 series 5.56mm rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M-16 series match condition replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM 05538C-23 & P/2A
2. National Match M-16 Build Procedures
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2004 MAINTAIN A M-14/DMR 7.62MM NATO RIFLE

CONDITION (S) Given a M-14/DMR 7.62MM NATO rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, DMR replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM 02648C – 24 & P/2
2. DMR Build Procedures
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2005 MAINTAIN A M-40A3 SNIPER RIFLE

CONDITION (S) Given an M-40A3 Sniper Rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M-40A3 parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM-05539D-24 & P/2, Sniper Rifle, 7.62 M-40A3
2. Sniper Rifle Build Procedures
3. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2006 MAINTAIN A M-82A3 SPECIAL APPLICATION SCOPED RIFLE (SASR)

CONDITION (S) Given an M-82A3 SASR, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, M-82A3 parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TM 09629A-23&P/2A, SASR, .50 Caliber M82
2. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2007 MAINTAIN MODEL 41 SMITH AND WESSON .22 CALIBER PISTOL

CONDITION (S) Given a Model 41 S&W .22 Caliber pistol, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, Model 41 replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

2112-MAIN-2008 MAINTAIN MODEL 40X REMINGTON .22 CALIBER RIFLE

CONDITION (S) Given a Model 40X Remington .22 Caliber Rifle, safety equipment, Precision Weapons Repairer Tool Kit, references, shop equipment, Model 41 replacement parts, and general shop supplies

STANDARD (S): so that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:

1. Clear weapon.
2. Perform function check.
3. Perform LTI.
4. Disassemble weapon.
5. Repair and/or replace all unserviceable parts and/or components.
6. Assemble weapon.
7. Function check weapon.
8. Complete required maintenance and/or administrative forms or records when applicable.

REFERENCE (S):

1. Manufacturer’s Maintenance Manual
2. TI 8005 – 24/20E, Trigger Weight Measurements and PFI

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (36) Req by (Cpl)

DUTY AREA 04 – TESTING WEAPONS

2112-TEST-2001 TEST AMMUNITION FOR USE IN PRECISION WEAPONS

CONDITION (S) Given weapons, Ammunition for test, written request for test, safety equipment, Precision Weapons Repairer Tool Kit, test facility, and references.

STANDARD (S): To ensure that a written recommendation for ammunition is submitted per the references and other specifications.

PERFORMANCE STEPS:

1. Observe safety procedures.
2. Order test lots of ammunition.
3. Test each lot.
4. Select best test lot.
5. Match test lot to each weapon when required.
6. Provide written report on ammunition test.

REFERENCE (S):

1. MCO 3591.14, Use of Service Weapon in Competition
2. MCO 8373.2, Auth ALW Maint & Acct Rifle/Pistol

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (48) Req by (Cpl)

MOS 2120

WEAPONS REPAIR OFFICER

ADMINISTRATIVE NOTE #1:
Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. Automated systems include CD-ROM, web based information and all applicable electronic media.

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2120-ADMN-2001 MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), equipment records, automated systems with internet access, and references.

STANDARD(S): To ensure that ground ordnance equipment remains combat ready per the references.

PERFORMANCE STEPS:

1. Determine mission requirements.
2. Focus ground ordnance equipment maintenance effort to maximize combat effectiveness.

REFERENCE(S):

1. CFR 1910.12000_
2. Applicable MI's
3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 Series, Individual Training Standard
12. MCO 1553.2
13. MCO 1553.3
14. MCO 1650.17_
15. MCO 3000.11
16. MCO 4030.16_
17. MCO 4030.19_
18. MCO 4030.25_

19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_
52. MCO P4600.19_
53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA Unit Training Management
60. MCRP 3-OB How to Conduct Training
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_
75. TM 4795-12

76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2002 EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records and applicable references.

STANDARD(S): To ensure all applicable maintenance management programs are established per the references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Analyze capabilities.
3. Validate resource requirements.
4. Analyze external requirements.
5. Anticipate future maintenance requirements.
6. Develop procedures utilizing functional areas of maintenance management.
7. Implement maintenance management programs.
8. Manage maintenance management programs.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P1200.7_ MOS Manual
3. MCO 3000.11
4. TM 4700-15/1_
5. Applicable Technical Information
6. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2003 MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, personnel, maintenance facility, and a budget.

STANDARD(S): To ensure that maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the references and commanders intent.

PERFORMANCE STEPS:

1. Determine required resources
2. Prioritize available resources
3. Plan employment of available resources
4. Organize available resources
5. Coordinate available resources

REFERENCE(S):

1. MCO P4790.2_
2. Table of Organization & Equipment (T/O&E)
3. TM 4700-15/1_
4. MCO 4400.150
5. MCWP 4-1
6. MCDP-4
7. MCO 4733.1_
8. MCO 4710.8_
9. MCO 5215.1_
10. MCO 5215.17_
11. MCO P5600.31_
12. MCO P4400.82_
13. MCO 3000.11_
14. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2004 MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and references.

STANDARD(S): To ensure the quantity, serviceability, and accountability of all information sources is maintained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Register requirements.
3. Manage the publications control program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P5215.1_
3. MCO 5600.31_
4. Table of Organization & Equipment (T/O&E)
5. UM-PLMS
6. SL 1-2/Sl 1-3
7. UM-MCPDS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2005 MONITOR MAINTENANCE SHOP LEVEL MOS TRAINING PROGRAM

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, personnel records, and mission requirements.

STANDARD(S): To ensure that personnel are trained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCE(S):

1. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
2. MCO P4790.2_
3. MCO 1553.3_
4. MCO 1553.2_
5. MCRP 3-OA UNIT TRAINING MANAGEMENT
6. MCRP 3-OB HOW TO CONDUCT TRAINING
7. MCWP 4-1
8. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2006 MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records and references.

STANDARD(S): To ensure support equipment and maintenance programs are implemented per applicable references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Ensure control procedures are established.
3. Ensure Preventive Maintenance Checks and Services(PMCS) is conducted.
4. Ensure corrective maintenance is conducted.
5. Analyze effectivness of support program.

REFERENCE(S):

1. MCO P4790.2_
2. TM 4700-15/1_
3. MCO 4733.1_
4. MCO P4790.2_
5. TI 4733-15/1_
6. TI 4733-15/11_
7. Current MARADMINs
8. Applicable Technical Information
9. Table of Organization & Equipment (T/O&E)
10. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibration equipment). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2007 MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, unit budget, mission requirements and references.

STANDARD(S): To ensure that all supply procedures are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate supply support requirements.
2. Coordinate requisition procedures.
3. Direct the accountability of all repair parts.
4. Direct validation procedures.
5. Direct reconciliation procedures.
6. Coordinate with internal supply support agencies.
7. Coordinate with external supply support agencies.
8. Validate budget requirements.

REFERENCE(S):

1. MCO P4400.82_
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 8300.1_
5. MCO 4340.1_
6. MCO P4400.150_
7. MCO 4400.16_
8. UM 4400-124
9. Local Policies and Procedures
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2008 MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, maintenance facilities, mission requirements and references.

STANDARD(S): To ensure that maintenance facilities are established per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission.
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. Applicable Technical Information
4. MCO P11262.2_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2009 MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD(S): To ensure that maintenance production flow is accomplished per the mission requirements, resources and references.

PERFORMANCE STEPS:

1. Validate production capability.
2. Prioritize maintenance effort.
3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000

5. Table of Organization & Equipment (T/O&E)
6. Applicable Technical Information
7. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2010 MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E),and equipment records.

STANDARD(S): To ensure that maintenance related programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Manage Product Quality Deficiency Report (PQDR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistic Support (CLS).
7. Manage execution of warranty programs.
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives Program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO 4733.1_
3. MCO 4855.10_
4. MCO P4790.1_
5. MCO 4105.2_
6. MCO 1650.17_
7. MCO P4790.3_
8. MCO 3000.11_
9. MCO 4790.18
10. MCBUL 3000
11. TM 4795-12
12. TM 4795-34
13. TM 4750-15/1
14. DOD 4160.21-M-1
15. Applicable Unit Logistics Support Summary (ULSS)
16. Applicable Technical Information
17. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2011 MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000
5. MCO 4400.16_
6. TM 4700-15/1_
7. Applicable Technical Information
8. Local policies and procedures
9. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2012 MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Analyze quality control effectiveness.
5. Coordinate with external maintenance activities.

REFERENCE(S):

1. MCO P4790.1_

2. MCO P4790.2_
3. MCO 3000.11_
4. MCO 4400.16_
5. MCO 4400.82_
6. MCO 4400.150_
7. MCBUL 3000
8. TM 4700-15/1_
9. Local Policies and Procedures
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2013 MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment requiring modification.
2. Monitor modification program.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCE(S):

5. MCO P4790.2_
6. MCO P4790.1
7. Table of Organization & Equipment (T/O&E)
8. TM 4700-15/1_
9. Applicable MI’s

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2014 MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate environmental compliance requirements.
5. Coordinate with unit environmental compliance representative.
6. Direct corrective actions.
7. Analyze effectiveness of program.

REFERENCES:

1. 29 CFR 1910.12000_
10. MCO 5100.29
11. MCO P4790.2_
12. MCO P5090.2_
13. MCO 5100.8_
14. MCO 5104.3_
15. MCO P4400.105_
16. MCO 4450.12
17. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2015 MANAGE SHOP SAFETY PROGRAM

CONDITION(S): Given the references, automated systems with internet access, and a maintenance facility.

STANDARD(S): To ensure that shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCE(S):

1. 29 CFR 1910.12000_
2. MCO 5100.29
6. MCO P4790.2_
7. MCO P5090.2_
8. MCO 5100.8_
9. MCO 5104.3_
10. MCO P4400.105_
11. MCO 4450.12
12. TB MED 524_

13. NAVSEATM 50420-AA-RAD-010
14. Current ALMARs
15. Current MARADMINs
16. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs and industrial hygiene. See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2016 MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCE(S):

1. MSE/Unit embarkation
2. Table of Organization & Equipment (T/O&E)
1. MCO 4030.16_
2. MCO 4030.19_
3. MCO 4030.25_
4. MCO 4030.33_
5. MCO 4030.36_
6. MCO 4110.2
7. MCO 4400.16_
10. MCO P4400.150_
11. MCO P4600.14_
12. MCO P4600.19_
13. MCO 4600.25_
14. MCO 4600.30_
15. MCO 4610.15_
16. MCO P4610.19_

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2017 MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:

1. MCO P4790.2_
2. Current ALMARs
3. Current MARADMINs
4. Applicable Technical Information
5. Local Policies and Procedures
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, Supply System II+ (ATLASS II+),and Defense Message System (DMS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2018 PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to be published.

STANDARD(S): To ensure routine correspondence, messages, staff papers, and policy letters are completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Prepare correspondence, as required.
2. Prepare messages, as required.
3. Prepare reports, as required.
4. Prepare staff papers, as required.
5. Prepare policy letters, as required.
6. Review all correspondence submitted by subordinates.
8. Direct correspondence filing procedures.

9. Staff correspondence to higher and adjacent agencies.

REFERENCE(S):

1. MCO P1070.12
2. SECNAVINST 5216.5
3. MCWP 3-1
4. Local policies and procedures
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2019 MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD(S): To ensure that ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
5. Conduct AA&E personnel screenings.
6. Analyze effectiveness of security programs.

REFERENCE(S):

1. MCO 5530.14_
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 8300.1
7. Current ALMARs
8. Current MARADMINs
9. Applicable Technical Information
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-ADMN-2020 ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that the equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.

REFERENCE(S):

1. MCO P4790.2_
2. Applicable Technical Information
3. Applicable Unit Logistics Support Summary (ULSS)
4. MCO 4420.15_
5. MCO 8300.1_
6. MCO P4400.82_
7. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

DUTY AREA 2 TECHNICAL FUNCTIONS

2120-TECH-2001 SERVE AS THE TECHNICAL ADVISER FOR OF GROUND ORDNANCE WEAPONS

CONDITION(S): Provided with guidance and command philosophy from the Commanding Officer and his staff in accordance with the applicable references.

STANDARD(S): To ensure that unit readiness is sustained at an acceptable level and provide recommendations to the Commanding Officer regarding operations and maintenance of ground ordnance equipment.

PERFORMANCE STEPS:

1. Prepare information on all matters relating to ground ordnance weapons.
2. Provide guidance on all matters relating to ground ordnance weapons.
3. Provide recommendations on all matters relating to ground ordnance weapons.
4. Conduct internal reviews.

REFERENCE:

1. 29 CFR 1910.12000_
2. Applicable MI’s

3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
12. MCO 1553.2
13. MCO 1553.3
14. MCO 1650.17_
15. MCO 3000.11
16. MCO 4030.16_
17. MCO 4030.19_
18. MCO 4030.25_
19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_
52. MCO P4600.19_
53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA UNIT TRAINING MANAGEMENT

60. MCRP 3-OB HOW TO CONDUCT TRAINING
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_
75. TM 4795-12
76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: Ground ordnance weapons include Small Arms weapons, ground ordnance Electro-Optical equipment, and Artillery. See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

2120-TECH-2002 PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF GROUND ORDNANCE WEAPONS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records and maintenance facilities.

STANDARD: To ensure that maintenance of ground ordnance weapons is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Anticipate requirements.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions.
5. Manage maintenance effort.
6. Manage maintenance personnel.
7. Ensure safety of personnel.
8. Analyze effectiveness of administrative functions.
9. Focus ground ordnance equipment maintenance efforts to maximize combat effectiveness

REFERENCE(S):

NOTE: See all references from Task 2120.02.01.

ADMINISTRATIVE INSTRUCTIONS: Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. 3. Automated systems include CD-ROM, web based information and all applicable electronic media. Ground ordnance weapons include Small Arms weapons, ground ordnance Electro-Optical equipment, and Artillery.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-TECH-2003 MANAGE UNIT AMMUNITION CONTROL PROGRAM

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), ammunition records, ammunition, and personnel.

STANDARD: To ensure that mission requirements are sustained per the references.

PERFORMANCE STEPS:

1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition handling procedures are adhered to
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers certification.

REFERENCE:

1. MCO 1510.78
2. MCO 4340.1
3. MCO 8010.1
4. MCO 8020.10
5. MCO 8025.1
6. MCBul 8011
7. UM 4400-15
8. NAVSEA SWO20-AC-SAF-010
9. NAVSEA SW020-AF-ABK-010
10. NAVSEA TWO24-AA-ORD-010

ADMINISTRATIVE INSTRUCTIONS: Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. 3. Automated systems include CD-ROM, web based information and all applicable electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2120-TECH-2004 PERFORM DUTIES AS LOAD TEST CERTIFICATION OFFICER

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment and equipment records.

STANDARD: To ensure that load testing is conducted, certified, and maintained per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate load test condition inspection requirements.
2. Establish a load test certification schedule.
3. Certify annual condition inspections.
4. Assign test director.
5. Assign test inspectors.
6. Coordinate load testing with supporting agencies.
7. Analyze effectiveness of administrative functions.

REFERENCE(S):

1. MCO P11240.106_
2. MCO P11262.2_
3. NAVFAC P307
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. 3. Automated systems include CD-ROM, web based information and all applicable electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

2120-TECH-2005 DIRECT RECOVERY OPERATIONS FOR ARTILLERY

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and equipment.

STANDARD: To ensure that the recovery of artillery pieces are safely accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Supervise recovery training.
2. Validate recovery requirements.
3. Validate Battle Damage Assessment and Repair (BDAR).
4. Validate ORM for recovery.
5. Provide technical guidance to the commander for recovery operations.
6. Supervise recovery operations.
7. Analyze effectiveness of administrative functions.
8. Analyze recovery operations effectiveness.

REFERENCES:

1. MCO P4790.2_
2. Applicable Technical Information
3. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. 3. Automated systems include CD-ROM, web based information and all applicable electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

2120-TECH-2006 MANAGE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR GROUND ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and NAVMC 10561.

STANDARD: To ensure that the oil analysis is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment requiring oil analysis.
2. Analyze results.
3. Direct corrective action.
4. Analyze effectiveness of administrative functions.

REFERENCES:

1. MCO 4790.2_
2. TI 4731-14/1C
3. MCO 4731.1
4. TM 4700-15/1_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Various staff assignments will include but are not limited to Headquarters Marine Corps(HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. Automated systems include CD-ROM, web based information and all applicable electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

MOS 2125

ELECTRO-OPTIC INSTRUMENT REPAIR OFFICER

ADMINISTRATIVE NOTE #1:
Various staff assignments will include but are not limited to Headquarters Marine Corps (HQMC), Post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level the Initial Training Setting will vary. These settings will change as follows:

1. MOJT (Standard) Sustainment (24) Req by (CWO-3) for Posts, Bases, Stations, Regiments, and Battalions.

2. MOJT (Standard) Sustainment (24) Req by (CWO-5) for Posts, Bases, and Stations and HQMC.

3. Automated systems include CD-ROM, web based information and all applicable electronic media.

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2125-ADMN-2001 MANAGE THE UNIT GROUND ORDNANCE MAINTENANCE OPERATIONS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), equipment records, automated systems with internet access, and references.

STANDARD(S): To ensure that ground ordnance equipment remains combat ready per the references.

PERFORMANCE STEPS:

1. Determine mission requirements.
2. Focus ground ordnance equipment maintenance effort to maximize combat effectiveness.

REFERENCE(S):

1. 29 CFR 1910.12000_
2. Applicable MI's
3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
12. MCO 1553.2
13. MCO 1553.3
14. MCO 1650.17_
15. MCO 3000.11
16. MCO 4030.16_
17. MCO 4030.19_
18. MCO 4030.25_

19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_
52. MCO P4600.19_
53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA UNIT TRAINING MANAGEMENT
60. MCRP 3-OB HOW TO CONDUCT TRAINING
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_
75. TM 4795-12

76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2002 EMPLOY GROUND ORDNANCE EQUIPMENT MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records and applicable references.

STANDARD(S): To ensure all applicable maintenance management programs are established per the references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Analyze capabilities.
3. Validate resource requirements.
4. Analyze external requirements.
5. Anticipate future maintenance requirements.
6. Develop procedures utilizing functional areas of maintenance management.
7. Implement maintenance management programs.
8. Manage maintenance management programs.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P1200.7_ MOS Manual
3. MCO 3000.11
4. TM 4700-15/1_
5. Applicable Technical Information
6. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2003 MANAGE GROUND ORDNANCE EQUIPMENT MAINTENANCE RESOURCES

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, personnel, maintenance facility, and a budget.

STANDARD(S): To ensure that maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the references and commanders intent.

PERFORMANCE STEPS:

1. Determine required resources
2. Prioritize available resources
3. Plan employment of available resources
4. Organize available resources
5. Coordinate available resources

REFERENCE(S):

1. MCO P4790.2_
2. Table of Organization & Equipment (T/O&E)
3. TM 4700-15/1_
4. MCO 4400.150
5. MCWP 4-1
6. MCDP-4
7. MCO 4733.1_
8. MCO 4710.8_
9. MCO 5215.1_
10. MCO 5215.17_
11. MCO P5600.31_
12. MCO P4400.82_
13. MCO 3000.11_
14. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2004 MANAGE TECHNICAL INFORMATION AND DIRECTIVES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and references.

STANDARD(S): To ensure the quantity, serviceability, and accountability of all information sources is maintained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Register requirements.
3. Manage the publications control program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P5215.1_
3. MCO 5600.31_
4. Table of Organization & Equipment (T/O&E)
5. UM-PLMS
6. SL 1-2/Sl 1-3
7. UM-MCPDS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2005 MONITOR MAINTENANCE SHOP LEVEL MOS TRAINING PROGRAM

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, personnel records, and mission requirements.

STANDARD(S): To ensure that personnel are trained per the references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCE(S):

1. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
2. MCO P4790.2_
3. MCO 1553.3_
4. MCO 1553.2_
5. MCRP 3-OA UNIT TRAINING MANAGEMENT
6. MCRP 3-OB HOW TO CONDUCT TRAINING
7. MCWP 4-1
8. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2006 MANAGE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records and references.

STANDARD(S): To ensure support equipment and maintenance programs are implemented per applicable references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Ensure control procedures are established.
1. Ensure Preventive Maintenance Checks and Services(PMCS) is conducted.
2. Ensure corrective maintenance is conducted.
3. Analyze effectivness of support program.

REFERENCE(S):

1. MCO P4790.2_
2. TM 4700-15/1_
3. MCO 4733.1_
4. MCO P4790.2_
5. TI 4733-15/1_
6. TI 4733-15/11_
7. Current MARADMINs
8. Applicable Technical Information
10. Table of Organization & Equipment (T/O&E)
10. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibration equipment). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2007 MANAGE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, unit budget, mission requirements and references.

STANDARD(S): To ensure that all supply procedures are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate supply support requirements.
2. Coordinate requisition procedures.
8. Direct the accountability of all repair parts.
9. Direct validation procedures.
10. Direct reconciliation procedures.
11. Coordinate with internal supply support agencies.
12. Coordinate with external supply support agencies.
13. Validate budget requirements.

REFERENCE(S):

1. MCO P4400.82_
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 8300.1_
5. MCO 4340.1_
6. MCO P4400.150_
7. MCO 4400.16_
8. UM 4400-124
9. Local Policies and Procedures
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2008 MANAGE GROUND ORDNANCE MAINTENANCE FACILITIES

CONDITION(S): Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, maintenance facilities, mission requirements and references.

STANDARD(S): To ensure that maintenance facilities are established per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission.
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. Applicable Technical Information
4. MCO P11262.2_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2009 MANAGE MAINTENANCE PRODUCTION SCHEDULE FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD(S): To ensure that maintenance production flow is accomplished per the mission requirements, resources and references.

PERFORMANCE STEPS:

1. Validate production capability.
2. Prioritize maintenance effort.
3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCE(S):

1. MCO P4790.1_

2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000
5. Table of Organization & Equipment (T/O&E)
6. Applicable Technical Information
7. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2010 MANAGE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E),and equipment records.

STANDARD(S): To ensure that maintenance related programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate mission requirements.
2. Manage Product Quality Deficiency Report (PQDR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistic Support (CLS).
7. Manage execution of warranty programs.
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives Program.

REFERENCE(S):

1. MCO P4790.2_
2. MCO 4733.1_
3. MCO 4855.10_
4. MCO P4790.1_
5. MCO 4105.2_
6. MCO 1650.17_
7. MCO P4790.3_
8. MCO 3000.11_
9. MCO 4790.18
10. MCBUL 3000
11. TM 4795-12
12. TM 4795-34
13. TM 4750-15/1
14. DOD 4160.21-M-1
15. Applicable Unit Logistics Support Summary (ULSS)
16. Applicable Technical Information
17. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2011 MANAGE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, Automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCBUL 3000
5. MCO 4400.16_
6. TM 4700-15/1_
7. Applicable Technical Information
8. Local policies and procedures
9. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2012 MANAGE CORRECTIVE MAINTENANCE PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Analyze quality control effectiveness.

5. Coordinate with external maintenance activities.

REFERENCE(S):

1. MCO P4790.1_
2. MCO P4790.2_
3. MCO 3000.11_
4. MCO 4400.16_
5. MCO 4400.82_
6. MCO 4400.150_
7. MCBUL 3000
8. TM 4700-15/1_
9. Local Policies and Procedures
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2013 MANAGE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment requiring modification.
2. Monitor modification program.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCE(S):

1. MCO P4790.2_
2. MCO P4790.1
3. Table of Organization & Equipment (T/O&E)
4. TM 4700-15/1_
5. Applicable MI’s

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2014 MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate environmental compliance requirements.
2. Coordinate with unit environmental compliance representative.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:

1. 29 CFR 1910.12000_
2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2015 MANAGE SHOP SAFETY PROGRAM

CONDITION(S): Given the references, automated systems with internet access, and a maintenance facility.

STANDARD(S): To ensure that shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCE(S):

1. 29 CFR 1910.12000_

2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs and industrial hygiene. See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2016 MANAGE EMBARKATION PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCE(S):

1. MSE/Unit embarkation
2. Table of Organization & Equipment (T/O&E)
3. MCO 4030.16_
4. MCO 4030.19_
5. MCO 4030.25_
6. MCO 4030.33_
7. MCO 4030.36_
8. MCO 4110.2
9. MCO 4400.16_
10. MCO P4400.150_
11. MCO P4600.14_
12. MCO P4600.19_
13. MCO 4600.25_
14. MCO 4600.30_
15. MCO 4610.15_

16. MCO P4610.19_

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2017 MANAGE MAINTENANCE SHOP INFORMATION REQUIREMENTS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:

1. MCO P4790.2_
2. Current ALMARs
3. Current MARADMINs
4. Applicable Technical Information
5. Local Policies and Procedures
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, Supply System II+ (ATLASS II+),and Defense Message System (DMS). See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2018 PREPARE ROUTINE CORRESPONDENCE, MESSAGES, STAFF PAPERS AND POLICY LETTERS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, and the information required to be published.

STANDARD(S): To ensure routine correspondence, messages, staff papers, and policy letters are completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Prepare correspondence as required.
2. Prepare messages as required.
3. Prepare reports as required.
4. Prepare staff papers as required.
5. Prepare policy letters as required.
6. Review all correspondence submitted by subordinates.
7. Direct correspondence filing procedures.
8. Staff correspondence to higher and adjacent agencies.

REFERENCE(S):

1. MCO P1070.12
2. SECNAVINST 5216.5
3. MCWP 3-1
4. Local policies and procedures
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2019 MANAGE PHYSICAL SECURITY PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD(S): To ensure that ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
4. Conduct AA&E personnel screenings.
5. Analyze effectiveness of security programs.

REFERENCE(S):

1. MCO 5530.14_
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 8300.1
7. Current ALMARs
8. Current MARADMINs
9. Applicable Technical Information
10. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-ADMN-2020 ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION(S): Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD(S): To ensure that the equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.

REFERENCE(S):

1. MCO P4790.2_
2. Applicable Technical Information
3. Applicable Unit Logistics Support Summary (ULSS)
4. MCO 4420.15_
5. MCO 8300.1_
6. MCO P4400.82_
7. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

DUTY AREA 2 TECHNICAL FUNCTIONS

2125-TECH-2001 SERVE AS THE TECHNICAL ADVISOR FOR ELECTRO-OPTICAL ORDNANCE EQUIPMENT

CONDITION(S): Provided with guidance and command philosophy from the Commanding Officer and his staff in accordance with the applicable references.

STANDARD(S): To ensure that unit readiness is sustained at an acceptable level and will make recommendations to the commanding officer regarding operations and maintenance of Electro-Optical ordnance equipment.

PERFORMANCE STEPS:

1. Prepare information on all matters relating to Electro-Optical ordnance equipment.
2. Provide guidance on all matters relating to Electro-Optical ordnance equipment.

3. Provide recommendations on all matters relating to Electro-Optical ordnance equipment.
4. Conduct internal reviews.

REFERENCE:

1. 29 CFR 1910.12000_
2. Applicable MI's
3. Applicable Technical Information
4. Applicable Unit Logistics Support Summary (ULSS)
5. Current ALMARs
6. Current MARADMINs
7. DOD 4160.21-M-1
8. Local Policies and Procedures
9. MCBUL 3000
10. MCDP-4
11. MCO 1510 SERIES, INDIVIDUAL TRAINING STANDARD
12. MCO 1553.2
13. MCO 1553.3
14. MCO 1650.17_
15. MCO 3000.11
16. MCO 4030.16_
17. MCO 4030.19_
18. MCO 4030.25_
19. MCO 4030.33_
20. MCO 4030.36_
21. MCO 4105.2_
22. MCO 4110.2
23. MCO 4340.1
24. MCO 4400.150_
25. MCO 4400.16_
26. MCO P4400.82
27. MCO 4420.15
28. MCO 4450.12
29. MCO 4600.25_
30. MCO 4600.30_
31. MCO 4610.15_
32. MCO 4710.8
33. MCO 4733.1_
34. MCO 4790.18
35. MCO 4790.2_
36. MCO 4855.10_
37. MCO 5100.29
38. MCO 5100.8_
39. MCO 5104.3_
40. MCO 5215.1
41. MCO 5215.17
42. MCO 5500.6_
43. MCO 5530.14_
44. MCO 8300.1
45. MCO 8400.6_
46. MCO P11240.106_
47. MCO P11262.2
48. MCO P1200.7_
49. MCO P4400.105_
50. MCO P4400.150_
51. MCO P4600.14_

52. MCO P4600.19_
53. MCO P4610.19_
54. MCO P4790.1_
55. MCO P4790.2_
56. MCO P4790.3_
57. MCO P5090.2_
58. MCO P5600.31
59. MCRP 3-OA UNIT TRAINING MANAGEMENT
60. MCRP 3-OB HOW TO CONDUCT TRAINING
61. MCWP 3-1
62. MCWP 4-1
63. MSE/Unit embarkation
64. NAVFAC P307_
65. NAVSEATM 50420-AA-RAD-010
66. OPNAVINST 5530.13_
67. OPNAVINST 5530.14_
68. SECNAVINST 5216.5
69. SL 1-2/Sl 1-3
70. Table of Organization & Equipment (T/O&E)
71. TB MED 524_
72. TI 4733-15/1_
73. TI 4733-15/11_
74. TM 4700-15/1_
75. TM 4795-12
76. TM 4795-34
77. UM 4400-124
78. UM 4790-5
79. UM-MCPDS
80. UM-PLMS

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

2125-TECH-2002 PROVIDE TECHNICAL MANAGEMENT FOR THE REPAIR OF ELECTRO-OPTICAL ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records and maintenance facilities.

STANDARD: To ensure that maintenance of electro-optical ordnance equipment is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate requirements.
2. Validate deficiencies.
3. Validate maintenance solutions.
4. Direct maintenance effort.
5. Direct maintenance personnel.
6. Ensure safety of personnel.
7. Analyze effectiveness of administrative functions.
8. Advise command on matters pertaining to electro-optical equipment.

9. Direct compliance of radiological safety.
10. Direct compliance of LASER safety.
11. Provide technical expertise in the acquisition of electro-optical ordnance equipment.

REFERENCE(S):

NOTE: See all references from Task 2125.02.01.

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (WO)

2125-TECH-2003 MANAGE UNIT AMMUNITION CONTROL PROGRAM

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), ammunition records, ammunition, and personnel.

STANDARD: To ensure that mission requirements are sustained per the references.

PERFORMANCE STEPS:

1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition handling procedures are adhered to
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers certification.

REFERENCE:

1. MCO 1510.78
2. MCO 4340.1
3. MCO 8010.1
4. MCO 8020.10
5. MCO 8025.1
6. MCBul 8011
7. UM 4400-15
8. NAVSEA SWO20-AC-SAF-010
9. NAVSEA SW020-AF-ABK-010
10. NAVSEA TWO24-AA-ORD-010

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (WO)

MOS 2131

TOWED ARTILLERY SYSTEMS REPAIRER

ADMINISTRATIVE NOTE #1:

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Hazardous material use that may render exposure is limited to personnel who have been provided information and training prior to initial assignment to work with a hazardous chemical, who have reviewed hazardous materials material safety data sheets for personal protective equipment and special precautions while working with chemicals, and who take precautions to avoid exposure to other employees.

3. Automated systems include CD-ROM, web based information, and all applications of electronic media.

DUTY AREA 01 – ORGANIZATIONAL MAINTENANCE

2131-ORGM-1001 MAINTAIN HOWITZER TOOLS

CONDITION(S): Given tools, test equipment, cleaning materials, access to automated systems with internet access, software, and references in a garrison or field environment.

STANDARD(S): Ensure tools are serviceable per the references.

PERFORMANCE STEPS:

1. Maintain common tools.
2. Maintain special tools.
3. Conduct tool inventories using applicable SL-3.
4. Complete maintenance/administrative forms and records.

REFERENCE(S):

1. Applicable SL-3, M198
2. LO 9-1025-211-13, HOWITZER, MEDIUM TOWED, 155MM M198
3. SC 4931-95-CL-J54, Purging Kit, Fire Control
4. TM 00640A-13&P/1 MS, Pullover Gage, Complete (KIT)
5. TM 00999-23&P/1, Recoil excercise for M198 155mm howitzer
6. TM 08552A-13&P, Maintenance Manual for Borescope M3
7. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
8. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
9. TM 9-1025-211-34P, Howitzer Med Towed 155mm M198 parts
10. TM 9-4933-201-15P, Pump Kit Hydraulic Oil Gun
11. TM 9-243, Use and Care of Hand Tools and Measuring Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (36) Req By (PFC)

2131-ORGM-1002 PERFORM HOWITZER PMCS

CONDITION(S): Given a howitzer, assigned tools, access to automated systems with software and the references, in a garrison or field environment.

STANDARD(S): Ensure howitzer is fully operational per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform orginizational PMCS.
3. Perform annual PMCS.
4. Perform special PMCS.
5. Perform corrosion control.
6. Complete maintenance/administrative forms and records.

REFERENCE(S):

1. LO 9-1025-211-13, Howitzer, Medium Towed, 155MM M198
2. MCO P4790.2, MIMMS Field Procedures Manual
3. MCO P5090.2, Environmental Compliance and Protection Manual
4. TM 4700-15/1, Ground Equipment Record Procedures Manual
5. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
6. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
7. TM 9-1025-211-10, Organizational Maintenance Manual, Howitzer, Medium, Towed, M198 155MM

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (PFC)

2131-ORGM-1003 MAINTAIN HOWITZER COLLATERAL EQUIPMENT

CONDITION: Given a howitzer, assigned tools, test equipment, access to automated systems with software, and references in a garrison or field environment.

STANDARD: Ensure that all required maintenance is identified and effect repairs to the authorized echelon of maintenance utilizing the references.

PERFORMANCE STEPS:

1. Inspect equipment for serviceability.
2. Perform fault isolation procedures.
3. Repair components.
4. Replace components.
5. Complete maintenance/administrative forms and records.

REFERENCES:

1. TM 9-1025-211-20&P
2. TM 11-7440-283-12-2
3. TM 9-1025-211-10
4. TM 9-1025-211-34
5. TM 9-1025-211-34P

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Automated systems include CD-ROM, web based information and all applications of electronic media.

3. Collateral equipment includes but is not limited to the chronograph, gun data display unit (GDU), M1 series collimator, M1 series gunners quadrant, M2 series aiming circle and the vehicle tail light.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (18) Red By (PFC)

2131-ORGM-1004 REPAIR M199 CANNON TUBE ASSEMBLY

CONDITION(S): Given an M199 cannon tube, tools, equipment, access to automated systems with software, and references, in a garrison or field environment.

STANDARD(S): Ensure that all required maintenance is identified and effect repairs to the authorized echelon of maintenance utilizing the applicable references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform fault isolation procedures.
3. Repair components.
4. Replace components.
5. Complete maintenance/administrative forms and records.

REFERENCE(S):

1. LO 9-1025-211-13, Howitzer, Medium Towed, 155MM M198
2. MCO P5090.2, Environmental Compliance and Protection Manual
3. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
4. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
5. TM 9-1025-211-34P, Howitzer Med Towed 155mm M198 parts
6. TM 9-1025-211-10, Organizational Maintenance Manual, Howitzer, Medium, Towed, M198 155MM

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (18) Req By (PFC)

2131-ORGM-1005 REPAIR M45 RECOIL MECHANISM

CONDITION(S): Given an M45 recoil mechanism, assigned tools, other applicable equipment, access to automated systems with internet access with software, and applicable references in a garrison or field environment.

STANDARD(S): Ensure all required maintenance is identified and repairs are completed to the authorized echelon of maintenance utilizing the applicable references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform fault isolation procedures.
3. Repair or replace components.
4. Complete required maintenance and/or administrative forms and records.

REFERENCE(S):

1. LO 9-1025-211-13, Howitzer, Medium Towed, 155MM M198
2. MCO P5090.2, Environmental Compliance and Protection Manual
3. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
4. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
5. TM 9-1025-211-34P, Howitzer Med Towed 155mm M198 parts
6. TM 9-1025-211-10, Organizational Maintenance Manual, Howitzer, Medium, Towed, M198 155MM

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (18) Req By (PFC)

2131-ORGM-1006 REPAIR M39 CARRIAGE

CONDITION(S): Given an M39 carriage assembly, assigned tools, test equipment, access to automated systems with internet access and applicable software and applicable references in a garrison or field environment.

STANDARD(S): Ensure all required maintenance is identified and repairs are completed to the authorized echelon of maintenance utilizing the applicable references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform fault isolation procedures.
3. Repair or replace components.
4. Perform fire control alignment test and optical PM/CM.
5. Complete required maintenance and/or administrative forms and records.

REFERENCE(S):

1. LO 9-1025-211-13, HOWITZER, MEDIUM TOWED, 155MM M198
2. MCO P5090.2, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
3. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
4. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
5. TM 9-1025-211-34P, Howitzer Med Towed 155mm M198 parts
6. TM 11-7440-283-12-2,

7. TM 9-1025-211-10, Organizational Maintenance Manual, Howitzer, Medium, Towed, M198 155MM

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. M39 carriage assembly includes but is not limited to the elevation mechanism, traversing mechanism, hydraulic system, wheel assembly, brake system, trails, equilibrator, Hypac system, manifold assembly and cradle assembly.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (18) Req By (PFC)

DUTY AREA 02 - ADMINISTRATIVE FUNCTIONS

2131-ADMN-1001 FOLLOW BASIC SHOP PROCEDURES

CONDITION(S): Given common tools, power tools, precision measuring tools, and the references.

STANDARD(S): Maintain assigned work area in the accomplishment of maintenance assignments per the references.

PERFORMANCE STEPS:

1. Organize tools and equipment within work area.
2. Follow instructions for care of tools.
3. Observe safety regulations.
4. Observe hazardous material regulations.

REFERENCE(S):

1. Material safety data sheets for hazardous materials
2. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
3. DOD INST 6050.5_, DOD Hazard Communication Program
4. Dod Inst 6055.11_, Protection Of DOD Personnel From Exposure To Radiofrequency Radiation and Military Exempt Lasers
5. Fm 9-243, Use and Care Of Hand Tools and Measuring Tools
6. Mco P5090.2_, Environmental Compliance and Protection Manual
7. TM 10209-10/1, Use and Care of Hand and Measure Tools
8. TM 9-254, General Maintenance Procedures for Fire Control Materials
9. U.S. ARMY TB 43-0134, Battery Disposition and Disposal

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (LCpl)

2131-ADMN-1002 FOLLOW BASIC MAINTENANCE PROCEDURES

CONDITION(S): Given equipment repair records and forms and the references.

STANDARD(S): Validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Utilize required publications and directives.
2. Adhere to Modification Instructions.
3. Adhere to Calibration procedures.
4. Complete necessary maintenance management forms needed to document work.

REFERENCE(S):

1. MCO 4790.2 MIMMS Field Procedures Manual
2. TM 4700-15/1 Ground Equipment Record Procedures Manual
3. UM 4790-5 MIMMS AIS Field Maintenance Procedures
4. UM 4400-124 FMF SASSY Using Unit Procedures
5. MCO P5215.17 The Marine Corps Technical Publications System
6. NAVMC 2761 Catalog of Publications
7. SL-1-2
8. SL-1-3
9. TI-4733-15/1 Calibration Requirements Marine Corps TMDE Calibration and Maintenance Program

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (LCpl)

CURRENT MCI(S):

1. MCI 04.10, MIMMS-AIS (Marine Corps Integrated Maintenance Management System)

2131-ADMN-1003 MAINTAIN ARTILLERY FUNCTIONAL AREAS

CONDITION(S): Given artillery functional areas, current technical information, and automated systems with internet access in a field or garrison environment.

STANDARD(S): To ensure that the functional areas are maintained per the references.

PERFORMANCE STEPS:

1. Maintain calibrations control program.
2. Maintain tool control program.
3. Maintain desktop/turnover procedures.
4. Maintain modification control program.
5. Maintain preventive maintenance program.
6. Maintain corrective maintenance program.
7. Maintain quality control program.

8. Maintain training program.
9. Maintain embark program.
10. Apply artillery operational risk management (ORM).

REFERENCES:

1. MCO 1510.65B
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 4733.1_
5. MCO P4400.150
6. TI 4733-15/1_
7. TI 4733-15/11_
8. TI 8000 Series
9. Applicable MI's
10. Current MARADMINs
11. Applicable Technical Information
12. MCO 4400.16_
13. UM 4790-5

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repair limited authorized echelon of maintenance. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

2131-ADMN-1004 MAINTAIN MAINTENANCE TRANSACTION REPORTS

CONDITION(S): Given current technical information and automated systems with internet access in a field or garrison environment.

STANDARD(S): To ensure that all armory maintenance transactions reports are updated per the references.

PERFORMANCE STEPS:

1. Analyze DPR.
2. Verify transactions on the DTL.
3. Verify exception reports.
4. Verify LM2 report.
5. Verify TAM report.
6. Submit maintenance transactions.
7. Conduct required reconciliation's.

REFERENCES:

1. MCO 4400.16
2. MCO P4790.2
3. TM 4700-15/1
4. UM 4790-5
5. Local Policies and Procedures

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req (Sgt)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+). Automated systems include CD-ROM, and web based information.

2131-ADMN-1005 MAINTAIN ARTILLERY PUBLICATION AND DIRECTIVES PROGRAM

CONDITION(S): Given current technical information and automated systems with internet access in a field or garrison environment.

STANDARD(S): To ensure that the required publications and directives are on hand to accomplish mission per the references.

PERFORMANCE STEPS:

1. Maintain publications requirements based on mission and T/E.
2. Maintain publications and directives on hand.
3. Determine deficiencies.
4. Take corrective actions as required.
5. Maintain armory publication and directives control procedures.

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. MCO P5215.17, USMC Technical Publications System
3. MCO P5600.31, Marine Corps Publications and Printing Regulations
4. NAVMC 2761, Catalog of Publications
5. SL-1-2, Index of Authorized Publications for Equipment Support
6. SL-1-3, Index of Authorized Publications for Equipment Support
7. TI 5600, Publication Info MC Equipment
8. TM 4700-15/1, Ground Equipment Record Procedures Manual
9. UM-PLMS
10. MCO P5215.1_

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

MOS 2141

ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

ADMINISTRATIVE NOTE #1:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

2141-OPRM-1001 PERFORM AAV/FOV OPERATOR PMCS

CONDITION(S): Given an AAV/FOV, assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks and services.
2. Perform during operation checks and services.
3. Perform after operation checks and services.

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
2. TM 07268-10A/1A, Operator's Manual, AAVC7A1 Command Vehicle
3. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1002 PERFORM AAV/FOV OPERATOR MAINTENANCE

CONDITION(S): Given an AAV/FOV, assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Lubricate AAV/FOV.
2. Maintain tracks.
3. Maintain drive sprockets.
4. Maintain cooling system.
5. Maintain fuel system.
6. Maintain batteries.
7. Maintain electrical system.
8. Maintain driver's vision enhancement (DVE).

9. Maintain bilge pumps.
10. Maintain components.
11. Perform fresh water washdown of engine compartment.
12. Comply with hazardous materials handling regulations.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV.

2. TM 4795-12/1, Organizational Corrosion Prevention and Control Procedures.

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1003 OPERATE AAV

CONDITION(S): Given an AAV, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Start engine.
2. Operate on land.
3. Operate in water.
4. Operate smoke generation system.
5. Operate personnel heater.
6. Operate manual fire suppression system.
7. Operate lights.
8. Operate driver's vision enhancement (DVE).
9. Operate crew ventilation system.
10. Operate hatches.
11. Operate exhaust Plenums.
12. Operate ramp.
13. Install/Remove blackout covers.
14. Operate searchlight.
15. Perform recovery operations.
16. Perform emergency procedures.
17. Operate bow plane.
18. Operate bilge pumps.
19. Operate cold start system.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1004 MAINTAIN AAV/FOV EQUIPMENT RECORDS

CONDITION(S): Given AAV/FOV equipment records, access to automated system with software, and the reference.

STANDARD(S): Provide operational and maintenance history per the reference.

PERFORMANCE STEPS:

1. Record vehicle operation entries in logbook.

2. Record maintenance related entries in logbook.

REFERENCE(S):

1. TM 4700-15/1, Ground Equipment Record Procedures

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1005 OPERATE AAV/FOV COMMUNICATIONS EQUIPMENT

CONDITION(S): Given an AAV/FOV communications equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate audio frequency amplifier AM-7162/VIC-2.
2. Operate frequency selector control C-11291.
3. Operate intercom C-11133/VIC-2.
4. Operate intercom C-111335/VIC-2.
5. Operate SINCGARS.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

2. TM 11-5820-890-10-1, Operator's Manual, SINCGARS Ground, Combat Net Radio, ICOM

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1006 OPERATE AAVR7A1 RECOVERY EQUIPMENT

CONDITION(S): Given AAVR7A1 recovery equipment, access to automated system with software, and the reference.

STANDARD(S): Support maintenance, towing, and recovery operations per the reference.

PERFORMANCE STEPS:

1. Perform PMCS on recovery equipment.
2. Operate hydraulic pump.
3. Operate winch.

4. Operate crane.

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1007 OPERATE AAVR7A1 MAINTENANCE EQUIPMENT

CONDITION(S): Given AAVR7A1 maintenance equipment, access to automated system with software, and the reference.

STANDARD(S): To support mission requirements per the reference.

PERFORMANCE STEPS:

1. Perform operator PMCS on maintenance equipment.
2. Operate alternating current (AC) generator.
3. Prepare welding equipment for operation.
4. Operate air compressor.
5. Operate floodlights/worklights.
6. Install/Remove ramp supports.

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-1008 PERFORM LAND BASED RECOVERY WITH THE AAV/FOV

CONDITION(S): Given a mired AAV7A1, an operational AAVR7A1, access to automated system with software, and the references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Survey recovery site.
2. Make recovery calculations.
3. Hook up rigging for recovery.
4. Perform recovery operations.
5. Stow rigging and associated hardware.

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Ensure safety precautions for cables under stress are followed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-OPRM-2001 OPERATE AAVP7A1 COLD WEATHER EQUIPMENT

CONDITION(S): Given an AAVP7A1, assigned tools, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Install winterization kit.
2. Operate and test winterization kit.
3. Remove winterization kit.
4. Store winterization kit.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

2141-OPRM-2002 MAINTAIN AAVR7A1 TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, cleaning materials, access to automated system with software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Inventory tools and equipment.
2. Inspect tools and equipment.
3. Perform tool maintenance/cleaning, as required.
4. Annotate discrepancies.
5. Report discrepancies per unit SOP.

REFERENCE(S):

1. Applicable SL-3s

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

3. TM 07267B-10/1A, Operator's Manual, AAVR7A1

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2141-ORGM-1001 PERFORM AAV/FOV ORGANIZATIONAL LEVEL PMCS

CONDITION(S): Given an AAV/FOV, assigned tools, access to automated system with software, and the references.

STANDARD(S): To determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform tune-up procedures.
2. Perform 50 hour/semiannual PMCS.
3. Perform 100 hour/annual PMCS.
4. Perform upgunned weapon station (UGWS) PMCS.
5. Perform PMCS on AAVR7A1 unique equipment.
6. Perform corrosion control procedures.

REFERENCE(S):

1. TM 0726678-25&P/2, AAV, Command, Model 7A1, AAVC7A1
2. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
3. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1
4. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
5. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
6. TM 10004A-25&P2, AAV Upgunned Weapon Station
7. TM 4795-12/1, Organizational Corrosion Prevention and Control Procedures

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-2001 MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness for cold weather operations per the reference.

PERFORMANCE STEPS:

1. Maintain personnel heater.
2. Maintain engine coolant heater.
3. Maintain battery box heat exchanger.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 09674A-25&P/4B, Maintenance Instructions for AAVP7A1
3. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

2141-ORGM-1002 MAINTAIN AAV/FOV SUSPENSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot suspension system.
2. Remove suspension components.
3. Inspect suspension components.
4. Repair components, as required.
5. Install suspension components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1003 MAINTAIN AAV/FOV POWER PLANT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Remove power plant.
2. Repair power plant.
3. Test power plant with ground hop kit.
4. Install power plant.
5. Test power plant inside vehicle.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Due to power plant weight, the RAMRS coolant tower must be removed prior to performance step 1 and 4.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1004 MAINTAIN AAV/FOV TRANSMISSION

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot transmission assembly.
2. Remove transmission components.
3. Inspect transmission components.
4. Maintain transmission electrical system.
5. Install transmission components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1005 MAINTAIN AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot engine.
2. Remove engine components.
3. Inspect engine components.
4. Install engine components.
5. Maintain engine electrical systems.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1006 MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Inspect cooling tower assembly.
2. Disassemble cooling tower assembly.
3. Test radiator assembly.

4. Assemble cooling tower assembly.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1007 MAINTAIN AAV/FOV FINAL DRIVES

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot final drive assembly.
2. Disconnect final drive assembly.
3. Remove final drive assembly.
4. Inspect final drive assembly.
5. Install final drive assembly.
6. Test final drive assembly.

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-2002 MAINTAIN AAV/FOV AIR ASPIRATION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot aspiration system.
2. Maintain air intake system.
3. Maintain grill and access system.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

2141-ORGM-2003 MAINTAIN AAV/FOV WATER PROPULSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot water drive system.
2. Maintain water jet deflectors.
3. Maintain water propulsion unit drive shafts.
4. Maintain right angle drives.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

2141-ORGM-1008 MAINTAIN AAV/FOV HYDRAULIC SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot hydraulic system.
2. Maintain hydraulic bilge pump circuit.
3. Maintain water steer circuit.
4. Maintain hydraulic pump and reservoir circuit.
5. Maintain hydraulic ramp control circuit.
6. Maintain hydraulic plenum circuit.
7. Maintain hydraulic bow plane circuit.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1009 MAINTAIN AAV/FOV ELECTRICAL SYSTEMS

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot electrical systems.
2. Maintain charging system circuit.
3. Maintain starting circuit.
4. Maintain cold start circuit.
5. Maintain lights and horn circuit.
6. Maintain slave circuit.
7. Maintain smoke generation system circuit.
8. Maintain tactical navigation circuit.
9. Maintain electrical bilge pump circuit.
10. Maintain power train circuit.
11. Maintain ventilation system circuit.
12. Maintain indicator panel and components.

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1010 MAINTAIN AAV/FOV FUEL SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Maintain fuel system components.
2. Troubleshoot fuel system.
3. Inspect fuel system components.
4. Remove fuel system components.
5. Install fuel system components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1011 MAINTAIN AAV/FOV CONTROLS AND LINKAGES

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot controls and linkages.
2. Maintain brake controls and linkages.
3. Maintain fuel throttle controls and linkages.
4. Maintain steering linkages.

5. Maintain water jet deflector control components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1012 MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot automatic fire suppression system.
2. Maintain automatic fire suppression system components.
3. Troubleshoot manual fire suppression system.
4. Maintain manual fire suppression system components.
5. Utilize automatic fire suppression tester.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1013 MAINTAIN AAV/FOV VENTILATION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot ventilation system.
2. Maintain crew and engine compartment ventilation system.
3. Maintain vent fan.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-2004 RECOVER SUBMERGED AAV/FOV

CONDITION(S): Given a crew, assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Prevent further damage or loss of assets per the references.

PERFORMANCE STEPS:

1. Conduct recovery operations.
2. Conduct salvage operations.
3. Conduct reconditioning operations.

REFERENCE(S):

1. Unit Maintenance Management Standing Operating Procedures (MMSOP)
2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: SSgt

2141-ORGM-2005 PREPARE AAV/FOV FOR SHIPMENT

CONDITION(S): Given a crew, assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Protect assets from physical damage during shipment per the reference.

PERFORMANCE STEPS:

1. Preserve vehicle.
2. Load and block vehicle.
3. Depreserve vehicle.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: Sgt

2141-ORGM-2006 MAINTAIN STORED AAV/FOV

CONDITION(S): Given a stored AAV/FOV/RAMRS, assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Protect assets from physical damage and deterioration per the references.

PERFORMANCE STEPS:

1. Perform in-storage care on vehicle.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

3. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: Sgt

2141-ORGM-1014 MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain recovery equipment.
2. Maintain maintenance equipment.

REFERENCE(S):

1. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-1015 MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot UGWS and components.
2. Inspect UGWS.
3. Remove UGWS components.
4. Maintain components.
5. Install components.
6. Remove UGWS.
7. Install UGWS.
8. Adjust UGWS.

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2141-ORGM-2007 PERFORM AN AAV/FOV MODIFICATION

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): To ensure vehicle upgrades are accomplished per the references.

PERFORMANCE STEPS:

1. Identify applicable modifications.
2. Perform modification.
3. Record status of modification on applicable forms and records.

REFERENCE(S):

1. Applicable Modification Instruction (MI) or Engineering Change Proposal (ECP)

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

3. SL-1-2, Index of Authorized Publications for Equipment Support

4. TI-5600, Publication Info MC Equipment

5. TM 4700-15/1, Ground Equipment Record Procedures

_ INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-ORGM-2008 PERFORM QUALITY CONTROL INSPECTION

CONDITION(S): Given a repaired piece of equipment, applicable tools and equipment, access to automated system with software, an Equipment Repair Order (ERO), and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify applicable reference.
2. Record inspection data on checklist.
3. Recommend corrective action, as required.
4. Record inspection on ERO.

REFERENCE(S):

1. Applicable equipment technical manuals

2. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Reference(s) for secondary repairables are too numerous to list.

2. Ensure applicable technical manuals are available to conduct inspections on secondary repairables.

3. Assistance from the unit Maintenance Officer or Chief may be required.

INITIAL TRAINING SETTING: MOJT Sustainment: 24 Req By: Cpl

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2141-INTM-2001 MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness for cold weather operations per the references.

PERFORMANCE STEPS:

1. Maintain personnel heater.
2. Maintain engine coolant heater.
3. Maintain battery box heat exchanger.

REFERENCE(S):

1. TM 09674A-25&P/2, AAV Special Mission Kits w/Ch 1
2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
3. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2002 MAINTAIN AAV/FOV TRANSMISSION

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Separate engine and transmission.
2. Remove components.
3. Inspect components.
4. Repair components.
5. Test components.
6. Install components.
7. Join engine and transmission.
8. Perform transmission run-in and test.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2003 MAINTAIN AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Separate engine and transmission.
2. Remove components.
3. Inspect components.
4. Repair components.
5. Test components.
6. Install components.
7. Perform engine tune-up.
8. Join engine and transmission.
9. Perform engine ground hop test.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2004 MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble cooling fan assembly.
2. Inspect components.
3. Repair components.
4. Assemble cooling fan assembly.
5. Test cooling fan assembly.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2005 MAINTAIN AAV/FOV FINAL DRIVE

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassembly of Final Drive.
2. Inspect Final Drive.
3. Repair Final Drive.
4. Assemble Final Drive.
5. Test Final Drive.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2006 MAINTAIN AAV/FOV WATER PROPULSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain water propulsion units.
2. Maintain water jet deflectors.
3. Maintain water propulsion unit drive shafts.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2007 MAINTAIN AAV/FOV HYDRAULIC SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain hydraulic bilge pumps' circuits.
2. Maintain hydraulic water steer unit circuit.
3. Maintain hydraulic pump and reservoir circuit.
4. Maintain hydraulic ramp control circuit.
5. Maintain hydraulic plenum circuit.
6. Maintain hydraulic bow plane circuit.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2008 MAINTAIN AAV/FOV ELECTRICAL SYSTEMS

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain charging system circuit.
2. Maintain starting circuit.
3. Maintain instrument distribution box.
4. Maintain power distribution box.
5. Maintain cold start circuit.
6. Maintain lights and horn circuit.
7. Maintain power plant circuit.
8. Maintain slave circuit.
9. Maintain smoke generation system circuit.
10. Maintain electrical bilge pump circuit.
11. Maintain power train circuit.
12. Maintain ventilation system circuit.
13. Maintain indicator panel and components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2009 MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot automatic fire suppression system.
2. Remove automatic fire suppression system components.
3. Install automatic fire suppression system components.
4. Maintain automatic fire suppression system components.
5. Troubleshoot manual fire suppression system.
6. Remove manual fire suppression system components.
7. Install manual fire suppression system components.
8. Maintain manual fire suppression system components.
9. Utilize automatic fire suppression tester.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2010 MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Remove components.
2. Inspect components.
3. Repair components.
4. Install components.
5. Adjust components.
6. Test components.

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2011 MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain air compressor.
2. Maintain welder.
3. Maintain winch.
4. Maintain crane.
5. Maintain fairlead.
6. Maintain magnetic clutches.
7. Maintain AC power electrical system.

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

2. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2012 MAINTAIN AAV/FOV TRACK TENSION ADJUSTER

CONDITION(S): Given assigned tools and equipment, and access to automated system with software.

STANDARD(S): Ensure operational readiness.

PERFORMANCE STEPS:

1. Disassemble track tension adjuster.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2013 REPAIR HYDRAULIC CYLINDER

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble hydraulic cylinder.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test hydraulic cylinder.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2014 REPAIR BOW PLANE ACTUATOR

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble bow plane actuator.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test bow plane actuator.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2015 REPAIR TRANSMISSION ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and
applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble transmission.
2. Inspect transmission.
3. Repair transmission.
4. Assemble transmission.
5. Adjust transmission components.
6. Run-in and test on dynamometer.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2016 REPAIR SPEED CHANGE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble speed change assembly.
2. Inspect components.
3. Test components.
4. Repair components.
5. Assemble components.
6. Test components.
7. Assemble speed change assembly.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2017 REPAIR AAV/FOV CLUTCH PACK ASSEMBLIES

CONDITION(S): Given assigned tools and equipment, access to automated system and
applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test clutch pack assembly.
2. Disassemble clutch pack assemblies.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test assembly.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2018 REPAIR BRAKE AND STEER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Inspect brake and steer assembly.
2. Disassemble brake and steer assembly.
3. Inspect components.
4. Repair components.
5. Assemble components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2019 REPAIR RANGE SELECTOR VALVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble range selector valve assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2020 REPAIR POWER TAKE-OFF ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power take-off assembly.
2. Inspect components.
3. Repair components.

4. Assemble components.
5. Test assembly.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2021 REPAIR MARINE DRIVE FRICTION CLUTCH

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test marine drive friction clutch.
2. Disassemble marine drive friction clutch.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test clutch.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2022 REPAIR FAN DRIVE FRICTION CLUTCH

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test fan drive friction clutch.
2. Disassemble fan drive friction clutch.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test clutch.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

2141-INTM-2023 REPAIR POWER DRIVEN ROTARY PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power driven rotary pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

2141-INTM-2024 REPAIR SOLENOID VALVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test solenoid valve assembly.
2. Disassemble solenoid valve assembly.
3. Inspect components.
4. Repair components.
5. Assemble components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2025 REPAIR PERSONNEL HEATER

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test personnel heater.
2. Disassemble personnel heater.
3. Inspect components.
4. Repair components.
5. Assemble heater assembly.
6. Test heater assembly.

REFERENCE(S):

1. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2026 REPAIR AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Disassemble engine.
2. Inspect engine.
3. Repair engine.
4. Assemble engine.
5. Perform engine tune-up.
6. Perform engine run-in and Dynamometer.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2027 REPAIR AAV/7A1 VT400 TURBOCHARGER

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble turbocharger.
2. Inspect components.
3. Repair components.

4. Assemble components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

2141-INTM-2028 REPAIR WATER PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble water pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

2141-INTM-2029 REPAIR AAV/FOV CYLINDER HEADS

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Disassemble cylinder heads.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test cylinder head.

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2030 REPAIR AAV/FOV FINAL DRIVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble final drive assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test final drive assembly.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2031 REPAIR HYDRAULIC BILGE PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble hydraulic bilge pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2141-INTM-2032 REPAIR AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test components.
2. Disassemble components.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test components.

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2033 REPAIR WATER JET PROPULSION UNIT

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble water jet propulsion unit.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2034 REPAIR DEFLECTOR ACTUATOR ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble deflector actuator assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2035 REPAIR CREW VENT FAN

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble crew vent fan.
2. Inspect components.
3. Repair components.
4. Assemble fan components.
5. Test crew vent fan.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2036 REPAIR RADIATOR

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble radiator.
2. Inspect radiator.
3. Repair radiator.
4. Assemble radiator.
5. Test radiator.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

2141-INTM-2037 REPAIR ELEVATION MECHANISM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble elevation mechanism.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Perform mechanism test.

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

2. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2038 REPAIR POWER-ASSISTED TRAVERSE MECHANISM

CONDITION(S): Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power-assisted traverse mechanism.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Perform mechanism test.

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

2141-INTM-2039 MAINTAIN AAV/FOV MK154 LAUNCHER

CONDITION(S): Given an AAV/FOV, an AAVR7A1, a MK154 Line Charge Kit, assigned tools and equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Inventory MK154 kit.
2. Install MK154.
3. Adjust MK154.
4. Conduct manual operation checks on MK154.
5. Conduct powered operation checks on MK154.
6. Maintain electrical system.
7. Maintain hydraulic system.
8. Remove MK154.
9. Store MK154.

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

2. TM 09962A-10/1, Operator's Manual, MK 154 Line Charge

3. TM 09962A-13&P/2, MK 154 Mine Charge Kit

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. The AAV/FOV must be on level ground with sufficient overhead clearance to install or remove the MK154.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2141-ADMN-2001 MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Ensure maintenance of the technical publications library.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections, as required.

REFERENCE(S):

1. ATLASS II+ User's Manual
2. Applicable equipment technical manuals
3. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
5. MCO 4855.10, Product Quality Deficiency Report (PQDR)
6. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
7. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
8. MCO P4400.150, Consumer-Level Supply Policy Manual
9. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
10. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
11. TM 4700-15/1, Ground Equipment Record Procedures
12. UM 4790-5, MIMMS AIS Field Maintenance Procedures

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

2141-ADMN-2002 ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outined in the references.

2. Review existing maintenance management procedures for compliance.

3. Ensure compliance with maintenance management programs, as applicable:

   a. Modification Control Program

   b. Warrant Program

   c. Inspect and Repair Only As Necessary Program

   d. WIR Program

   e. Quality Control Program

   f. Administrative Dead Line Program

   g. Contact Team Program

   h. Maintenance Stand-Down Program

i. Corrosion Prevention and Control Program

j. Hazardous Communication Program

k. Tool Control and Calibration Programs

l. Embarkation Program

4. Ensure actions are completed to correct any deficiencies.

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

2. TM 4700-15/1, Ground Equipment Record Procedures

3. UM 4790-5, MIMMS AIS Field Maintenance Procedures

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

2141-ADMN-2003 PERFORM OPERATOR TRAINING

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.

2. Provide instruction and guidance on performance of operator maintenance.

3. Provide instruction and guidance on maintenance safety program.

4. Maintain records of all training conducted.

REFERENCE(S):

1. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE)
Calibration and Maintenance Program (CAMP)

2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

3. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program

4. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS)
Introduction Manual

5. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual

6. TM 4700-15/1, Ground Equipment Record Procedures

7. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

2141-ADMN-2004 PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system with software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance schedule.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Identify and validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expended bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc report.
13. Perform evacuation procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. ATLASS II+ User's Manual

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

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2141-ADMN-2005 CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies, and the references.

STANDARD(S): To provide appropriate training sustainment and progression for subordinates per the references.

PERFORMANCE STEPS:

1. Review annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements.
6. Conduct ordnance maintenance training.
7. Participate in unit training evaluations and inspections.
8. Maintain records of all training conducted.

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm

2. MCO 1510.34, Individual Training Standards System (ITSS)

3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3

4. MCO 1553.3, Marine Corps Unit Training Management

5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)

6. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

MOS 2146

MAIN BATTLE TANK REPAIRER TECHNICIAN

ADMINISTRATIVE NOTE #1:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

2146-OPRM-1001 OPERATE M1A1 TANK

CONDITION(S): Given an M1A1 tank, ramp or test drive area, and the references.

STANDARD(S): Determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.

2. Operate vehicle as per instructions.

3. Perform during operation checks.

4. Perform after operation checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-10-1, Operator's Manual, Operator Controls, PMCS, and Operation Under Uusal Conditions for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams

2. TM 08953A-10-2, Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams

DISTANCE LEARNING PRODUCT(S):

1. MCI 18.43, Operating the M1A1 Tank

2146-OPRM-1002 PERFORM M88A2 OPERATOR PMCS

CONDITION(S): Given an M88A2, assigned tools, test equipment, suitable driving area, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.

2. Perform during operation checks and services.

3. Perform post-operation checks.

4. Perform weekly operation checks and services.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection and servicing the following items as required: track and suspension system, vision devices, .50-caliber machine gun and mount, instruments, dome and blackout marker lights, engine air cleaner, welding equipment, M88A2 under usual condition, gas-particulate filter unit, deep water fording kit, and M239 smoke grenade system.

2146-OPRM-1003 TROUBLESHOOT M88A2

CONDITION(S): Given an M88A2, assigned tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate vehicle as per instructions.

2. Identify any/all malfunctions.

3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspecting and checking the following items: engine, operator's control, transmission, winches and booms, auxiliary hydraulic system, light system, auxiliary power unit, ventilation blower, personnel heater, tracks and suspension, gas-particulate system, M239 smoke grenade system, and exhaust smoke generating system.

2146-OPRM-1004 OPERATE M88A2

CONDITION(S): Given an M88A2, suitable driving area, and the references.

STANDARD(S): To support maintenance, towing, and recovery operations per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.

2. Perform during operation checks.

3. Perform after operation checks.

4. Operate in normal/adverse conditions.

5. Perform recovery operations.

6. Perform towing operations.

7. Perform lifting operations.

8. Operate vehicle armament system.

9. Maintain logbook.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. FM 20-22, Recovery Vehicle Operations

2. FM 23-65, Browning Machinegun, .50-Caliber HB, M2

3. FM 31-70, Basic Cold Weather Manual

4. FM 31-71, Northern Operations

5. FM 31-76, Mountain Operations

6. FMFRP 4-34, Battlefield Damage Assessment and Repair

7. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

9. TM 4700-15/1, Ground Equipment Record Procedures

10. TM 9-1005-213-10, Machine Gun, .50-Caliber Browning, M2, Heavy Barrel, Flexible

11. TM 9-207, Oil Analysis Sampling Valve

12. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

13. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

14. TM 9-237, Welding Theory and Application

ADMINISTRATIVE INSTRUCTIONS:

1. Steps include the following: starting/stopping main engine, driving the M88A2, stopping the M88A2, performing towing and recovery operations, preparing hydraulic system for operations, operating the spade, boom, hoist winch, main winch, gas-particulate filter unit, smoke generator system, M239 smoke grenade system, and .50-caliber machine gun, use of lockout blocks and deep water fording kit, and maintaining the logbook.

2146-OPRM-1005 OPERATE M88A2 AUXILIARY POWER UNIT

CONDITION(S): Given an M88A2 and the references.

STANDARD(S): To support maintenance and recovery operations per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.

2. Perform during operation checks.

3. Conduct emergency hydraulic operations.

4. Conduct refuel/defuel operations.

5. Operate impact wrench.

6. Perform post-operation checks upon completion.

7. Complete maintenance and/or administrative forms and records, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

2146-OPRM-1006 OPERATE M88A2 COMMUNICATIONS SYSTEM

CONDITION(S): Given an M88A2 with communications equipment and the references.

STANDARD(S): To ensure effective communication in a combat and garrison environment per
the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance checks and services (PMCS).

2. Setup radios for operation.

3. Operate radio sets.

4. Operate intercommunication set.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 11-5820-890-10-1, Operator's Manual, SINCGARS Ground, Combat Net Radio, ICOM

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2146-ORGM-1001 MAINTAIN ORGANIZATIONAL TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Perform user maintenance for common tools.

2. Perform user maintenance for special tools .

3. Perform user maintenance for test equipment.

4. Perform user maintenance for M1A1 tools.

5. Perform user maintenance for M88A2 tools.

6. Perform user maintenance for AVLB tools.

7. Inventory kits, sets, chests, and equipment as required, and complete forms and records.

8. Requisition required items and reconcile as required with supporting supply source.

9. Complete required maintenance and/or administrative records and procedures, as applicable.

REFERENCE(S):

1. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS)
Introduction Manual

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual

3. SL-3-00456A, Tool Kit, General Mechanic's

4. SL-3-03533A, Tool Set, Wrench Impact

5. SL-3-07769B, Recovery Vehicle, Full-Tracked, Medium M88A2

6. SL-3-07928A, Tool Set, Organizational Maintenance 2nd Echelon, M88A2, Recovery Vehicle, Full-Tracked

7. SL-3-08940A, Launcher and M60A1 Tank Chassis, Transporting for Bridge,
Armored Vehicle Launched (AVLB) Scissoring Type

8. SL-3-08953A, Tank, Combat, Full-Tracked 120mm Gun, M1A1

9. SL-3-09561A, Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon

10. SL-3-09590A, Analyzer Set, Vehicular (STE-M1)

11. SL-3-10025A, Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

2146-ORGM-1002 PERFORM M1A1 HULL PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Perform semiannual PMCS.

3. Perform biannual/annual PMCS.

REFERENCE (S):

1. LI 08953a-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 5 of 5

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2146-ORGM-1003 PERFORM M1A1 TURRET PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Perform semiannual PMCS.

3. Perform biannual/annual PMCS.

4. Perform borescope PMCS.

5. Perform erosion gauge PMCS.

REFERENCE (S):

1. LI 08953a-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-3-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 1 of 4

3. TM 08953A-20-3-2, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 2 of 4

4. TM 08953A-20-3-3, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 3 of 4

5. TM 08953A-20-3-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 4 of 4

6. TM 750-116, General Procedures for Purging and Charging of Fire Control Instruments.

7. TM 9-6115-542-24&P/1 External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2146-ORGM-1004 TROUBLESHOOT M1A1 HULL SYSTEMS

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD: Determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1 tank, as required.

2. Identify and isolate malfunctions.

3. Troubleshoot hull system.

REFERENCE (S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (HULL), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

7. TM 9-4910-741-14-1, STE M1/FVS

8. TM 9-4910-741-14-2, STE M1/FVS

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: fuel supply system, hull auxiliary system, hull electrical system, NBC system, engine system, transmission system, hydraulic system, and NBC back-up system.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2146-ORGM-1005 TROUBLESHOOT M1A1 TURRET SYSTEMS

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD: Determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1 tank, as required.

2. Identify and isolate malfunctions.

3. Troubleshoot turret system.

REFERENCE (S):

1. TM 08953A-20-3-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 1 of 4

2. TM 08953A-20-3-2, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 2 of 4

3. TM 08953A-20-3-3, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 3 of 4

4. TM 08953A-20-3-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vol. 4 of 4

5. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

6. TM 9-4910-741-14-1, STE M1/FVS

7. TM 9-4910-741-14-2, STE M1/FVS

8. TM 9-6115-542-24&P/1 External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: turret electrical system, hydraulic and gun/turret drive system, fire control system, commander's weapon station system, smoke grenade system, auxiliary system, EAPU electrical system, turret circuit breaker system.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

2146-ORGM-2001 TROUBLESHOOT M1A1 MINE CLEARING BLADE

CONDITION(S): Given an M1A1 equipped with mine clearing blade, necessary tools and test equipment, assistant(s), access to automated system and applicable software

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Inspect mine clearing blade and control system.

2. Identify/Isolate malfunctions.

3. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 2590-10/1, Operator's Manual, Blade, Mine Clearing

2. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include checking raising indicator lamp, moldboard, and mine clearing blade motor.

2146-ORGM-1006 MAINTAIN M1A1 POWERPACK

CONDITION(S): Given an M1A1 powerpack, appropriate lifting device, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Isolate/Identify discrepancies and unserviceable parts or components

3. Perform corrective maintenance, as required.

4. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: engine rear exhaust duct seals, exhaust duct door assembly panel, exhaust duct nut, covers, screw assembly chain and washers, turbine exhaust duct, engine step plate, plenum-to-engine plain seal, ground hop powerpack, and ground hop pressure fluid filter.

2146-ORGM-1007 MAINTAIN M1A1 INDUCTION SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: precleaner-baffle, air cleaner assembly intake filter elements, air cleaner clamp, and pulse jet air system.

2146-ORGM-1008 MAINTAIN M1A1 FUEL SYSTEM

CONDITION(S): Given an M1A1, appropriate lift capability, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: testing and replacing fuel nozzle, and troubleshooting fuel pumps.

2146-ORGM-1009 MAINTAIN M1A1 COOLING SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: oil cooler fan ducts, oil cooler fan accessory gear box, cleaning left or right side oil cooler assembly, oil cooler fan, fan drive unit, double universal propeller shaft, engine and left side transmission oil cooler fan shroud seal, right side transmission oil cooler fan shroud seal, and oil cooler fan drive unit oil tube assemblies.

2146-ORGM-1010 MAINTAIN M1A1 ELECTRICAL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

7. TM 9-4910-741-14-1, STE M1/FVS

8. TM 9-4910-741-14-2, STE M1/FVS

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: generator, voltage regulator, starter motor 100-amp electromagnetic relay, ignition electrical, ignition exciter, engine starter, driver's instrument panel, driver's master control panel, driver's alert panel, air temperature controller, digital electronic control unit and components, hull networks distribution box and components, disconnect panel junction box, stoplight switch assembly and electrical bracket, headlights and components, stoplight-taillight and components, terminal boards (buss bar), turret networks box, tank commander's panel, turret distribution valve, slip ring, loader's panel, and maintaining batteries, wiring harnesses, and cable assemblies.

2146-ORGM-2002 MAINTAIN M1A1 FINAL DRIVE

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: final drive tube assembly, final drive, final drive packing retainer and packing, broken final drive cam headed straight pin or disconnect cam, and connecting final drive.

2146-ORGM-2003 MAINTAIN M1A1 BRAKE SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: dial pressure gauge, parking brake components, parking brake lock, service brake control components, and adjusting parking brake control assemblies and service brake control assembly.

2146-ORGM-1011 MAINTAIN M1A1 TRACK AND SUSPENSION

CONDITION(S): Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: suspension torsion bars, torsion bar cover, track support roller, idler wheel hub and arm assembly, upper spindle oil seal retainer, track adjusting link replacement, solid rubber roadwheel, shock absorber torsion bar housing assembly maintenance, road wheel hub and arm assembly, and track assembly.

2146-ORGM-2004 MAINTAIN M1A1 STEERING SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: replacing throttle steering assembly components, steering system components, and shift control assembly; adjusting throttle control and steering linkages; and testing throttle, steering, and shift control assemblies.

2146-ORGM-2005 MAINTAIN M1A1 HULL EXTERIOR

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

3. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

4. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

5. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

6. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

7. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

8. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

9. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

10. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

11. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

12. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

13. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: top deck and grilles, sponson, battery, precleaner, and engine covers, doors, and grille, NBC sponson box metal grille and access covers, upper ammunition armored plates, lower blow-off plates, hull skirts and vehicular fenders, rear grille mounting hinges, cracked skirts, repair/replace tow pintle assembly, and maintaining inflatable seat.

2146-ORGM-2006 MAINTAIN M1A1 INTERIOR HULL ASSEMBLY

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

8. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

9. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

10. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

11. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

12. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: driver hatch and lifting mechanism, driver periscopes, driver periscope washer, drain valves, ammunition compartment, and repair/replace driver vehicular seat and headrest.

2146-ORGM-1012 MAINTAIN M1A1 ACCESSORY ITEMS

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Man for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

7. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

8. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

9. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

10. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

11. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

12. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

13. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training the following systems and components: vehicular (personnel) heater, smoke generator components, driver periscope wiper, and external auxiliary power unit (EAPU).

2146-ORGM-2007 MAINTAIN M1A1 BILGE PUMP

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include servicing the following: replacing centrifugal bilge pump unit and repair/replace bilge pump unit tube assembly, metallic bent tube, and rubber hoses.

2146-ORGM-1013 MAINTAIN M1A1 HULL HYDRAULIC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: auxiliary hydraulic rotary pump, main hydraulic centrifugal pump, hydraulic distribution manifold, hydraulic distribution manifold pressure switch, hydraulic reservoir, hydraulic filter manifold tube assembly, hydraulic manifold filter elements, hydraulic heat exchanger and mounting bracket, hydraulic hull assemblies, tube assemblies, and fittings.

2146-ORGM-1014 MAINTAIN M1A1 FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: fire sensor, fire extinguisher control amplifier, reset switch assembly, fire extinguisher tube assemblies and nipples, valve and bottle assemblies, fire extinguisher manifold, fire extinguisher system manual controls, and fire extinguisher lines, hoses, and fittings inspections.

2146-ORGM-1015 MAINTAIN M1A1 NBC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: particle peparator, duct assemblies, hose and tube assemblies, NBC filter assembly, Venturi air circulating duct and pressure regulating flow valve, prioritization valve, and NBC system components, switches inspection and replacement.

2146-ORGM-1016 MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: commander's control panel assembly, loader's panel, turret networks box, hull/turret slip ring assembly, blasting machine, commander's weapon station azimuth drive system, commander's weapon station power control unit, turret electrical wiring harnesses and cable assemblies, turret switches, and turret dome light.

2146-ORGM-1017 MAINTAIN M1A1 TURRET SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: turret exterior storage boxes, turret ammunition doors, safety guards and pads, turret ammunition racks, turret blow off panels, NBC pressure relief guard and cover, turret bustle ammunition compartment, and turret interior stowage boxes.

2146-ORGM-1018 MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes training on the following systems and components: traverse servomechanism assembly, elevation servomechanism assembly, turret distribution valve, hand pump assembly, manual elevation/main accumulator assemblies, and turret hydraulic lines and fittings.

2146-ORGM-1019 MAINTAIN M1A1 TURRET ARMAMENT SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Tracked: 120mm Gun, M1A1

2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: 120mm gun, smoke grenade launcher, loader's weapon mount, coaxial machine gun mount, and commander's weapon mount.

2146-ORGM-1020 MAINTAIN M1A1 FIRE CONTROL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

2. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

3. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

4. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

5. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: commander's extension, gunner's primary sight, commander's control assembly, line-of-sight electronics unit, commander's weapon station manual drive

assembly, commander's weapon station unity tank periscope and junction box, commander's weapon station sight, handle, and linkage computer electronics unit, computer control panel, gun/turret drive electronics unit, crosswind sensor, cant unit assembly, rate gyroscopes, elevation mechanism disk filter, gunner's control grip assembly, laser rangefinder, thermal imaging system, collimator assembly, and gunner's auxiliary sight.

2146-ORGM-1021 MAINTAIN M1A1 TURRET NBC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

2. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

3. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

4. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

5. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: commander's, gunner's, and loader's NBC equipment, and gas particulate filter system.

2146-ORGM-2008 MAINTAIN M1A1 MINECLEARING BLADE

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Perform semiannual preventive maintenance checks and services (PMCS).

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Complete maintenance/administrative records and procedures.

REFERENCE(S):

1. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: LCpl

2146-ORGM-1022 PERFORM M88A2 ORGANIZATIONAL PMCS

CONDITION(S): Given an M88A2, necessary tools and test equipment, a driving area, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M88A2 to determine malfunctions.

2. Perform limited technical inspection (LTI).

3. Perform semiannual PMCS.

4. Remove unserviceable parts or components.

5. Repair/Replace unserviceable parts or components.

6. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1023 TROUBLESHOOT M88A2 SYSTEMS

CONDITION(S): Given an M88A2, necessary tools and test equipment, a driving area, assistant(s), access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M88A2 to determine malfunctions.

2. Perform limited technical inspection (LTI).

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

4. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: engine, fuel, and air intake/exhaust systems, oil cooling system, transmission center section and output reduction gears, driver controls, tracks and suspension, main and hoist winches, hoisting boom, spade, impact wrench, fuel transfer

pump, main hydraulic system, auxiliary hydraulic system, auxiliary power unit, personnel heater, gas-particulate ilter unit, M239 smoke grenade system, and exhaust smoke generating system.

2146-ORGM-1024 TROUBLESHOOT M88A2 ELECTRICAL SYSTEMS

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M88A2 to determine malfunctions.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

4. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: master relay system and slave receptacle, main engine manifold preheater and starting system, main engine fuel supply electrical system, main engine monitoring system, governor control system, transmission monitoring system, generator, APU starting system, APU fuel system, APU monitoring system, vehicle warning system, vehicle warning system-external vehicle warning horn, personnel heater and control system, interior lighting system, exterior lighting system, filter unit, gas-particulate, hydraulic reservoir monitoring system, smoke generating system, and main engine generator blower.

2146-ORGM-1025 MAINTAIN M88A2 POWER PLANT AND ASSEMBLIES

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

8. TM 9-4910-571-12&P, Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List Simplified Test Equipment for Internal Combustion Engines-Reprogrammable

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: main engine fuel, air intake and exhaust system, main engine cooling system, transmission, and removing/replacing power plant.

2146-ORGM-1026 MAINTAIN M88A2 ELECTRICAL SYSTEMS

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

7. TM 9-6140-200-12, Operator's Organizational, Direct Support, and General Support Maintenance Manual for Lead-Acid Storage Batteries; 4 HN, 24 V

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: charging/starting system and vehicle batteries, gauge and switch panels, lighting system, and vehicle wiring.

2146-ORGM-1027 MAINTAIN M88A2 SUSPENSION COMPONENTS

CONDITION(S): Given an M88A2, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: bumper springs and brackets, drive sprockets, compensating idler arm components, road wheel arm and hub components, shocks, torsion bars, track support roller components, and track.

2146-ORGM-2009 MAINTAIN M88A2 HULL AND RELATED COMPONENTS

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

3. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

4. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

5. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

7. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

8. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2010 MAINTAIN M88A2 PERSONNEL HEATER

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

a. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

7. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1028 MAINTAIN M88A2 FIRE EXTINGUISHER SYSTEM

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: removal/replacement and weighing of fire bottles.

2146-ORGM-1029 MAINTAIN M88A2 HYDRAULIC SYSTEM COMPONENTS

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-256-24P-2, Unit, Direct Support, and General Support Maintenance Repair Parts & Special Tools List for M88A2 Winch, Power Take-off and Hoist System

6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

7. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

8. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: main winch and spade assembly, hoist winch assembly, wire rope and roller assembly, and hoisting boom assembly.

2146-ORGM-1030 MAINTAIN M88A2 MAIN HYDRAULIC SYSTEM

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2011 MAINTAIN M88A2 AUXILIARY POWER UNIT

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1031 MAINTAIN M88A2 GAS PARTICULATE FILTER UNIT

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2013 MAINTAIN M88A2 SMOKE GRENADE LAUNCHERS

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 3-1040-266-20&P, Organizational Maintenance Manual: Launcher, Grenade, Smoke: Screening, RP, M239

2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2014 MAINTAIN M88A2 EXHAUST SMOKE GENERATING SYSTEM

CONDITION(S): Given an M88A2, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1032 PERFORM AVLB CHASSIS/LAUNCHER PMCS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Perform semiannual PMCS.

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Usr

9. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

10. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1033 TROUBLESHOOT AVLB CHASSIS/LAUNCHER

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Usr

9. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

10. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: power plant,transmission, brakes, steering, hull power generator/regulator, fire extinguisher, and hydraulics.

2146-ORGM-1034 MAINTAIN AVLB POWER PLANT

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: replacing power plant, disconnecting power take-off, and testing power plant using the ground hop.

2146-ORGM-1035 MAINTAIN AVLB ENGINE

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: engine oil cooler and transmission oil cooler.

2146-ORGM-1036 MAINTAIN AVLB FUEL SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: fuel pumps, engine fuel pump, and air cleaner system.

2146-ORGM-1037 MAINTAIN AVLB ELECTRICAL SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 9-6140-200-12, Operator's Organizational, Direct Support, and General Support Maintenance Man for Lead-Acid Storage Batteries; 4 HN, 24 V

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: engine generator and regulator assemblies, starter, engine fuel injector pump, master control panel, and batteries and associated components.

2146-ORGM-1038 MAINTAIN AVLB TRANSMISSION AND SHIFTING COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: shifting control and related parts, transmission oil breather tube, transmission main oil filter element, transmission side oil strainer assembly, adjusting shift linkage, neutral shift switch, and servobands.

2146-ORGM-1039 MAINTAIN AVLB FINAL DRIVE

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: final drives, final drive air pressure relief drive, and universal joint.

2146-ORGM-1040 MAINTAIN AVLB BRAKE SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: master cylinder, brake pressure gauge, brake quick disconnect and hose assembly, brake left and right hand slave cylinders and tube assemblies, brake control housing, parking brake control assemblies, bell crank, and bleed/adjust hydraulic brake system.

2146-ORGM-2015 MAINTAIN AVLB TRACK AND SUSPENSION SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2016 MAINTAIN AVLB STEERING SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2017 MAINTAIN AVLB EXTERIOR COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

3. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

5. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

6. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

7. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

8. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

9. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1041 MAINTAIN AVLB INTERIOR COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

3. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

5. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

6. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

7. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

8. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

9. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: engine access covers, bulkhead PTO ring, and slip ring box access cover.

2146-ORGM-2018 MAINTAIN AVLB PERSONNEL HEATER

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

2. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

3. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

4. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

5. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

6. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

7. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

8. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1042 MAINTAIN AVLB GAUGES

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

2. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

3. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

4. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

5. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

6. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

7. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: speedometer, speedometer flexible shaft assembly, speedometer adapter rotating bracket and speedometer shaft adapter assemblies, tachometer, tachometer bulkhead shaft adapter, tachometer flexible shaft assemblies, and tachometer-speedometer mounting bracket.

2146-ORGM-1043 MAINTAIN AVLB FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: interior release mechanism, exterior release handle body assembly, fixed fire extinguisher outside release handle control assembly, control valve assembly, fixed fire extinguisher cylinder, fixed fire extinguisher delay bottle and tubes, fixed fire extinguisher mounting bracket, fixed fire extinguisher manifold, discharge valves, tubes, engine compartment discharge manifold, and related parts.

2146-ORGM-2019 MAINTAIN AVLB SMOKE GENERATOR SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection, repair, and/or replacement of the following: smoke generator switch and guard, smoke generator switch indicator light and mounting bracket, smoke generator wiring harness, smoke generator fuel shut-off valve, smoke generator solenoid, smoke generator fuel hoses, lines, fittings, and smoke generator tee to turbo supercharger tube assembly.

2146-ORGM-2020 MAINTAIN AVLB SMOKE GRENADE LAUNCHER

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 3-1040-266-20&P, Organizational Maintenance Manual: Launcher, Grenade, Smoke: Screening, RP, M239

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection, repair, and/or replacement of the following: smoke grenade power box, smoke grenade push-button unit, smoke grenade wiring harness assemblies, smoke grenade launcher, smoke grenade storage box, and also performing a function check on the smoke grenade launcher.

2146-ORGM-1044 MAINTAIN AVLB HYDRAULIC SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Formal school training for this task includes the following: valves and associated hydraulics, filter, hose assemblies, hydraulic cylinders, and hydraulic reservoir components.

2146-ORGM-1045 MAINTAIN AVLB BRIDGE

CONDITION(S): Given an AVLB, assigned tools, test equipment, assistant(s), and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Usr

2. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1046 MAINTAIN M1A1 EXTERNAL AUXILIARY POWER UNIT (EAPU)

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), and references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-264-12, Lubrication Order, Tank Combat 120mm Gun M1A1

2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

7. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-1047 MAINTAIN M88A2 OUTPUT REDUCTION UNIT

CONDITION(S): Given an M88A2, assigned tools, test equipment, assistant(s), and references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

4. TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

8. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

9. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

10. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-ORGM-2021 APPLY DEEP WATER FORDING KIT TO M88A2

CONDITION(S): Given an M88A2, deep water fording kit, and the references.

STANDARD(S): To prepare for amphibious operations per the references.

PERFORMANCE STEPS:

1. Conduct fording kit inventory.

2. Apply deep water fording kit to M88A2.

3. Operate vehicle as per instructions.

4. Remove deep water fording kit.

5. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

4. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

5. TM 9-238, Deep-Water Fording of Ordnance Material

2146-ORGM-1048 PERFORM ANNUAL CONDITION INSPECTION OF M88A2 RECOVERY VEHICLE

CONDITION(S): Given an M88A2, applicable forms, an assistant, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Inspect lifting components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

2. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual

3. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

4. TM 4700-15/1, Ground Equipment Record Procedures

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

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2146-ORGM-1049 MAINTAIN GROUND HOP M88A2 MAIN WINCH

CONDITION(S): Given an M88A2, assigned tools, test equipment, suitable driving area, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance/administrative records and procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

2. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

3. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection, repair, and/or replacement of the following: pulling the nose cone, paying out the main winch, and limit switch adjustments.

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2146-INTM-1001 TROUBLESHOOT M1A1 HULL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 hull system components, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-24-1, Unit, Intermediate Direct Support and Intermediate General
Support Maintenance Manual Systems Schematics for M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

4. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500

5. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

6. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps must include inspection and troubleshooting of the following: in-tank fuel pump, driver's instrument panel, driver's master control panel, driver's alert panel, temperature control unit, digital electronic control unit, hull power distribution box, hull networks distribution box, dome light, hull wiring harnesses, and shift control assembly.

2146-INTM-1002 TROUBLESHOOT M1A1 TURRET SYSTEM COMPONENTS

CONDITION(S): Given M1A1 turret system components, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Complete required maintenance/administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-24-1, Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual Systems Schematics for M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

4. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500

5. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

6. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps must include inspection and checking the following: turret network box, loader's panel, dome light, tank commander's panel, commander's weapon station control handle, commander's weapon station power control unit, gun/turret drive electronic unit, commander's control assembly, gunner's control assembly, elevating mechanism, traversing mechanism, turret wiring harness, and hand pump assembly.

2146-INTM-2001 REPAIR AGT TURBINE ENGINE

CONDITION(S): Given an M1A1 AGT 1500, appropriate lifting device, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500

2. TM 9-2835-255-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Turbine Engine, Field Service Model AGT 1500

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable #1 bearing, removing and inspecting intermediate housing assembly, replacing unserviceable #12 and #4 annular ball bearing, removing and inspecting reduction gear box, replacing unserviceable #10 ball bearing, removing and inspecting shaft assembly and adapter, replacing unserviceable #5 bearing, removing and inspecting accessory gear box cover assembly.

2146-INTM-2002 MAINTAIN M1A1 FUEL SYSTEM COMPONENTS

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: repairing unserviceable EMFS, fuel pump driveshaft, fuel pump, and rotary variable differential transformers (RVDTs).

2146-INTM-2003 MAINTAIN M1A1 COOLING SYSTEM COMPONENTS

CONDITION(S): Given an M1A1 power pack, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing or replacing unserviceable oil cooling fan angle drive unit assembly and unserviceable oil cooler fans and tube axle.

2146-INTM-2004 MAINTAIN M1A1 HULL ELECTRICAL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 components, assigned tools test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

2. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

3. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500

4. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

5. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing generator, driver's instrument panel, driver's master control panel, driver's alert panel, temperature controller, digital electronic control unit (DECU), hull power distribution box, hull network distribution box, DECU supplemental battery box, headlight assembly, wiring harness, and starter.

2146-INTM-2005 REPAIR M1A1 FINAL DRIVE ASSEMBLY

CONDITION(S): Given M1A1 final drive assembly, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

4. TM 9-2520-276-34&P, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Final Drive Assemblies, Model X1100-3B

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing output shaft assembly and final drive assembly.

2146-INTM-2006 MAINTAIN M1A1 STEERING ASSEMBLY

CONDITION(S): Given an M1A1 steering assembly, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

4. TM 9-2520-276-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual for Transmission Assembly, Model X1100-3B

5. TM 9-2520-276-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Transmission Assemblies

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable access cover, switches and connectors, housing, identification plate, and unserviceable electrical wires.

2146-INTM-2007 MAINTAIN M1A1 CHASSIS ACCESSORIES

CONDITION(S): Given an M1A1, an appropriate lifting device, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

3. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

4. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include replacing or adjusting the following: unserviceable hull turret seal, race ring wiper seal, turret ring headless shoulder pin, bump stop bracket, ammunition doors, sound suppressors, and removing, repairing, and/or replacing the race ring assembly.

2146-INTM-2008 MAINTAIN M1A1 FIRE SUPPRESSION EQUIPMENT COMPONENTS

CONDITION(S): Given M1A1 fire suppression components, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable fire extinguisher
distribution tube assemblies and repairing unserviceable valve and bottle assembly.

2146-INTM-2009 MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 turret electrical system components, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

2. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2

3. TM 9-1200-206-34-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 1 of 3 for M1 and M1A1 Sighting and Fire Control

4. TM 9-1200-206-34-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 2 of 3 for M1 and M1A1 Sighting and Fire Control

5. TM 9-1200-206-34-3, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol 3 of 3 for M1 and M1A1 Sighting and Fire Control

6. TM 9-1200-206-34P-2, Direct Support and General Support Repair Parts and Special Tools List for M1, IPM1, and M1A1 Sighting and Fire Control Components

7. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

8. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

9. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test
Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing gunner's control assembly, commander's control assembly, gun/turret drive electronics unit, turret networks box assembly, loader's panel, tank commander's panel assembly, commander's weapon station control handle assembly, machine gun safety switch assembly, wiring harness, and commander's weapons station power control unit assembly.

2146-INTM-2010 MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM COMPONENTS

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2

4. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing traversing mechanism assembly, elevating mechanism assembly, hand pump and hydraulic handle assembly, traverse servomechanism assembly, and elevation servomechanism assembly.

2146-INTM-2011 MAINTAIN M1A1 TURRET ASSEMBLY COMPONENTS

CONDITION(S): Given an M1A1, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2

4. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: repairing turret lock assembly, turret race assembly, commander's weapon station azimuth drive gear box, commander's weapon station elevation manual drive, and turret ammunition doors.

2146-INTM-2012 MAINTAIN M1A1 ARMAMENT SYSTEM COMPONENTS

CONDITION(S): Given M1A1 armament system, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance/administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1

2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2

4. TM 9-1000-202-14, Evaluation of Cannon Tubes

5. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

6. TM 9-6650-235-13&P, M3 Borescope Manual

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable 120mm gun mount, replacing and/or adjusting gun trunnion resolver, replacing gunner's auxiliary sight front seal, and replacing recoil mechanism and recoil mechanism wipers.

2146-INTM-2013 MAINTAIN M1A1 MINE CLEARING BLADE COMPONENTS

CONDITION(S): Given an M1A1 mine clearing blade, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 2590-10/1, Operator's Manual, Blade, Mine Clearing

2. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable motor housing, speed gear assembly, and motor assembly.

2146-INTM-2014 MAINTAIN X11003B TRANSMISSION

CONDITION(S): Given an M1A1, X11003B transmission, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-276-34, Intermediate Direct Support and Intermediate General
Support Maintenance Manual for Transmission Assembly, Model X1100-3B

2. TM 9-2520-276-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Transmission Assemblies

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable right brake apply shaft assembly, housing, and brake pad.

2146-INTM-2015 MAINTAIN EXTERNAL AUXILIARY POWER UNIT (EAPU)

CONDITION(S): Given an M1A1 external auxiliary power unit, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.

2. Troubleshoot malfunctions.

3. Take corrective/remedial action per the references.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: replacing unserviceable engine, repairing fuel, electrical, and/or air intake systems.

2146-INTM-2016 TROUBLESHOOT M88A2

CONDITION(S): Given an M88A2, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A2

2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

3. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A2

4. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A2 Winch, Power Take-off and Hoist System

5. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium M88A2

6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection, and checking the following: fuel system, purge pump, electrical system, mechanical tachometer and speedometer, auxiliary power unit, bilge pump, personnel heater, and main hydraulic system.

2146-INTM-2017 MAINTAIN M88A2 SYSTEMS

CONDITION(S): Given an M88A2, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1

2. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2

3. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A2

4. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A2 Winch, Power Take-off and Hoist System

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2

6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include repair and/or replacement of the following: power plant, fuel tanks, electric fuel pump, purge pump, personnel heater, electrical components, hydraulic components, auxiliary power unit, adjust and load test main winch, hoist winch, and live boom, hoistng boom assembly, main winch and spade assembly, hydraulic subplate assembly, mechanical transmission and main hydraulic pump assembly, hoist winch assembly, hydraulic oil tank assembly, spade subplate and combination control valve assembly, flow regulator subplate assembly, smoke grenade launcher, and adjust and load test main winch, hoist winch, and live boom.

2146-INTM-2018 MAINTAIN M88A2 TURBOSUPERCHARGER

CONDITION(S): Given an M88A2, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A2

2. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A2 Winch, Power Take-off and Hoist System

3. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: disassembling turbosupercharger, inspecting and repairing turbosupercharger, assemnbling turbosupercharger, and testing/adjusting turbosupercharger.

2146-INTM-2019 REPAIR M88A2 ENGINE

CONDITION(S): Given an AVDS-1790-2D engine, assigned tools, test equipment, access to automated system with software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2815-220-34, Direct Support and General Support Maintenance Manual for Engine w/Container: Turbosupercharged, Diesel, Fuel Injection, 90 Degree "V" Type, Air-Cooled 12 Cyl, Assembly; Mod-D

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: disassemble engine, inspect and repaire engine, assemble engine, and test/adjust engine.

2146-INTM-2020 REPAIR M88A2 TRANSMISSION

CONDITION(S): Given an XT-1410-4 transmission, assigned tools, test equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-215-34, Direct and General Support and Depot Maintenance for Transmission, Cross Drive Assembly (Allison Model XT 1410-4)

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: disassemble transmission, inspect and repair transmission, assemble transmission, and test/adjust transmission.

2146-INTM-2021 REPAIR M88A2 OUTPUT REDUCTION UNIT

CONDITION(S): Given an output reduction unit (ORU), assigned tools, test equipment, access to automated system with software, and the reference.

STANDARD(S): Ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble ORU.
2. Inspect/repair ORU.
3. Assemble ORU.
4. Test/adjust ORU.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-215-34, Direct and General Support and Depot Maintenance for Transmission, Cross Drive Assembly (Allison Model XT 1410-4)

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1.

2146-INTM-2022 MAINTAIN M88A2 FUEL SYSTEM

CONDITION(S): Given an M88A2, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A2

2. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A2 Winch, Power Take-off and Hoist System

3. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: remove and test fuel injectors, repair, replace, and time injector pump, and replace/adjust Viking pump.

2146-INTM-2023 MAINTAIN AVLB ENGINE

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): Ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include the following: disassembling engine, inspecting and repairing engine, assembling engine, and testing and adjusting engine.

2146-INTM-2024 MAINTAIN AVLB FUEL SYSTEM

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

4. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

5. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: removing and testing fuel injectors and timing injectors and Viking pump.

2146-INTM-2025 MAINTAIN AVLB ELECTRICAL SYSTEM

CONDITION(S): Given and AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove, repair, and/or replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: inspection, repair, and/or replacement of the wiring harnesses, starter, and generator.

2146-INTM-2026 MAINTAIN AVLB TRANSMISSION

CONDITION(S): Given an AVLB power plant, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: disassembling transmission, inspecting and repairing transmission, assembling transmission, and testing and adjusting ransmission.

2146-INTM-2027 MAINTAIN AVLB BRAKE SYSTEM COMPONENTS

CONDITION(S): Given AVLB brake system components, assigned tools, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: inspection, repair, and/or replacement of the brake master cylinder and brake slave cylinder.

2146-INTM-2028 MAINTAIN AVLB SUSPENSION SYSTEM

CONDITION(S): Given an AVLB, suspension components, assigned tools, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include inspection, repair, and/or replacement of the following: road wheel arm assembly, track support axle assembly, compensating idler arm assembly, and track adjusting link.

2146-INTM-2029 MAINTAIN AVLB FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an AVLB, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

2. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: inspection, repair, and/or replacement of the fixed fire extinguishing cylinder.

2146-INTM-2030 MAINTAIN AVLB LAUNCHER

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative records and forms, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-20, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: inspection, repair, and/or replacement of the following: reservoir blower assembly, reservoir quadrant blower motor, accessories control box, tongue assembly, boom-outrigger, and maintaining pump-clutch and valve bank and hydraulic cylinders and reservoir.

2146-INTM-2031 MAINTAIN AVLB FINAL DRIVE

CONDITION(S): Given an AVLB final drive, appropriate lifting devices, assigned tools, test equipment, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.

4. Complete required maintenance and/or administrative records and forms, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-20, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge

2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. See Administrative Note #1.

2. Steps include: disassembling final drive, inspecting and repairing final drive, assembling final drive, and testing/adjusting final drive.

2146-INTM-2032 MAINTAIN INTERMEDIATE TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, cleaning materials, access to automated system with software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Maintain tools.

2. Maintain special tools.

3. Maintain test equipment.

4. Maintain M1A1 tools.

5. Maintain M88A2 tools.

6. Maintain AVLB tools.

7. Inventory kits, sets, chests, and equipment as required and complete applicable forms and records.

8. Requisition required items and reconcile as required with supporting supply source.

9. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. MCO 4400.150, Consumer Level Supply Policy Manual

2. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual

3. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

4. SL-3-00456A, Tool Kit, General Mechanic's

5. SL-3-03533A, Tool Set, Wrench Impact

6. SL-3-07769B, Recovery Vehicle, Full-Tracked, Medium M88A2

7. SL-3-07928A, Tool Set, Organizational Maintenance 2nd Echelon, M88A2, Recovery Vehicle, Full-Tracked

8. SL-3-08940A, Launcher and M60A1 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched (AVLB) Scissoring Type

9. SL-3-08953A, Tank, Combat, Full-Tracked 120mm Gun, M1A1

10. SL-3-09561A, Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon

11. SL-3-09590A, Analyzer Set, Vehicular (STE-M1)

12. SL-3-10025A, Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon

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DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2146-ADMN-2001 MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.

2. Manage support and test equipment use, inventory, and maintenance.

3. Maintain electronic and paper-based technical publications libraries.

4. Coordinate supply support requirements.

5. Maintain preventive/corrective maintenance schedules.

6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.

7. Ensure shop safety procedures are established and followed.

8. Ensure appropriate disposal of hazardous waste.

9. Conduct routine and unscheduled internal inspections, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual

2. Applicable equipment technical manuals

3. MCO 4731.1, Oil Analysis Program for Ground Equipment

4. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)

5. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

6. MCO 4855.10, Product Quality Deficiency Report (PQDR)

7. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program

8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

9. MCO P4400.150, Consumer-Level Supply Policy Manual

10. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual

11. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

12. TM 4700-15/1, Ground Equipment Record Procedures

13. UM 4790-5, MIMMS AIS Field Maintenance Procedures

2146-ADMN-2002 ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outined in the references.

2. Review existing maintenance management procedures for compliance.

3. Comply with maintenance management programs, as applicable:

   a. Modification Control Program

   b. Warrant Program

   c. Joint Oil Analysis Program

   d. Inspect Repair Only As Necessary Program

   e. WIR Program

   f. Quality Control Program

   g. Administrative Dead Line Program

   h. Contact Team Program

   i. Maintenance Stand-Down Program

   j. Corrosion Prevention and Control Program

k. Hazardous Communication Program

l. Tool Control and Calibration Programs

m. Embarkation Program

4. Correct any deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

2. TM 4700-15/1, Ground Equipment Record Procedures

3. UM 4790-5, MIMMS AIS Field Maintenance Procedures

2146-ADMN-2002 SUPERVISE MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.

2. Provide instruction and guidance on performance of operator maintenance.

3. Provide instruction and guidance on maintenance safety program.

4. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO 4731.1, Oil Analysis Program for Ground Equipment

2. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)

3. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

4. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program

5. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual

6. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

7. TM 4700-15/1, Ground Equipment Record Procedures

8. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2146-ADMN-2004 PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system with software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.

2. Identify preventive maintenance requirements.

3. Develop preventive maintenance schedule.

4. Update job status.

5. Update man-hours.

6. Update priority.

7. Update meters.

8. Validate modification requirements.

9. Develop calibration schedule.

10. Develop pre-expended bin (PEB)/parts package.

11. Create adhoc report.

12. Analyze adhoc report.

13. Perform evacuation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

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2146-ADMN-2005 CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, equipment and supplies, and the references.

STANDARD(S): Provide training sustainment and progression for subordinates per the references.

PERFORMANCE STEPS:

1. Review the annual training plan for training requirements.

2. Identify individual training requirements.

3. Develop a training schedule.

4. Apply training program policies and procedures.

5. Schedule support requirements, as needed.

6. Conduct ordnance maintenance training appropriate to unit size and mission.

7. Participate in unit training evaluations and inspections, as required.

8. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm

2. MCO 1510.34, Individual Training Standards System (ITSS)

3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3

4. MCO 1553.3, Marine Corps Unit Training Management

5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)

6. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

MOS 2147

LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR AND CREW/OPERATOR MAINTENANCE

2147-OPRM-1001 PERFORM LAV OPERATOR MAINTENANCE

CONDITION(S): Given an LAV, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.
2. Perform operator level troubleshooting.
3. Operate vehicle per instructions.
4. Perform during operations checks.
5. Perform after operations checks.
6. Record entries in ordnance vehicle logbook.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. LI 08650A-12A, Lubrication Instructions, LAV-Command & Control
3. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
4. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull
5. LI 08654A-12, Lubrication Instructions, LAV-Logistics
6. LI 08655A-12A, Lubrication Instructions, LAV-Mortar
7. LI 09999A-12, Lubrication Instructions, LAV-MEWSS
8. TI-2320-15/55B, Deadline Criteria
9. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25
10. TM 08651A-10A, Operator's Manual, LAV Recovery
11. TM 08652A-10/2A, Operator's Manual, LAV Anti-Tank Auto/Hull
12. TM 08653A-10/1, Operator's Manual, LAV-Air Defense
13. TM 08654A-10A, Operator's Manual, LAV Logistics

14. TM 08655A-10A, Operator's Manual, LAV-M

15. TM 09999A-10/2, Operator's Manual, LAV MEWSS

16. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Steps include inspection, removal, repair, and/or replacement of the following: communications equipment, driver's and commander's night vision periscopes, fluid levels, lubrication points, wheel drive assembly, service hull drain plug, air cleaner element, fuel strainer/separator, batteries, air reservoirs, brake system, weather protection grill cover, driver's windshield, driver's cover, tie down strap, smoke grenade launcher, LAV tires, collateral equipment, NBC system, maintenance equipment, and performing corrosion control.

2147-OPRM-1002 OPERATE LAV-25

CONDITION(S): Given an LAV-25, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.

2. Operate LAV-25 turret and 25mm automatic chain gun.

3. Perform operator level troubleshooting.

4. Operate vehicle per instructions.

5. Perform during operations checks.

6. Perform after operations checks.

7. Operate associated SL-3 equipment.

8. Record entries in ordnance vehicle logbook.

9. Record entries in weapons record book.

10. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

3. SL-3-08594A, Stocklist, LAV-25

4. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret

5. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25

6. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2. Steps include inspecting: air intake and exhaust system, braking system, commander's night vision periscope, communications system, compressed air system, crew heater assembly, driver's night periscope, electrical system, bilge pump, engine, suspension assemblies, propeller drive assembly, steering system, transmission, wheel drive assemblies, and recovery equipment.

3. Vehicle not operated off-road or in simulated combat situations during formal school training.

2147-OPRM-1003 OPERATE LAV-ANTI-TANK (AT)

CONDITION(S): Given an LAV-AT, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Remove and repair or replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

3. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull

4. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25

5. TM 08652A-10/1A, Operator's Manual, LAV-AT Turret

6. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2. Steps include inspection, removal, repair and/or replacement of the following: annunciator panel, compressed air and brake system, NBC system, power pack assembly, steering system, hydraulic system, electrical system, suspension system, drive train system, fuel system, cooling system, communications system, air intake system/exhaust system, fire suppression system, personal heater, and pneumatic system.

2147-OPRM-1004 OPERATE LAV-RECOVERY

CONDITION(S): Given an LAV, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance requirements to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.

2. Perform operator level troubleshooting.

3. Operate LAV-R.

   a. Ensure crane annual condition inspection is current prior to use.

   b. Ensure not to exceed crane capacity.

   c. Operate all auxiliary equipment.

4. Perform during operations checks.

5. Perform after operations checks.

6. Perform first echelon preventive maintenance checks and services (PMCS).

7. Operate associated SL-3 equipment.

8. Properly record inventories.

9. Make appropriate entries in ordnance vehicle logbook.

10. Perform daily crane inspection.

11. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery

2. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

3. SL-3-08651A, Stocklist, LAV-Recovery

4. TM 08651A-10A, Operator's Manual, LAV Recovery

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2. Steps include limited technical inspection of the LAV-R.

2147-OPRM-1004 OPERATE LAV-RECOVERY

CONDITION(S): Given an LAV-M, assigned tools and test equipment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To determine corrective maintenance required to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.

2. Perform operator level troubleshooting.

3. Operate LAV-M.

4. Perform during operations checks.

5. Perform after operations checks.

6. Properly record inventories.

7. Make appropriate entries in ordnance vehicle logbook.

8. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08655A-12A, Lubrication Instructions, LAV-Mortar

2. TM 08655A-10A, Operator's Manual, LAV-M

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS: MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-OPRM-2002 OPERATE LAV-COMMAND & CONTROL (C2)

CONDITION(S): Given an LAV-C2, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.

2. Perform operator level troubleshooting.

3. Operate LAV-C2.

4. Perform during operations checks.

5. Perform after operations checks.

6. Make appropriate entries in ordnance vehicle logbook.

7. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08650A-12A, Lubrication Instructions, LAV-Command & Control

2. TM 08650A-10, Operator's Manual, LAV Command & Control

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS: MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as

required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-OPRM-2003 OPERATE LAV-MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)

CONDITION(S): Given an LAV-MEWSS, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.

2. Perform operator level troubleshooting.

3. Operate LAV-MEWSS.

4. Perform during operations checks.

5. Perform after operations checks.

6. Make appropriate entries in ordnance vehicle logbook.

7. Complete required maintenance and/or administrative records and forms, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 09999A-12, Lubrication Instructions, LAV-MEWSS

2. TM 09999A-10/2, Operator's Manual, LAV MEWSS

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Steps include inspection, removal, and replacement of the following: turntable, roof hatch, and ammunition rack.

2147-OPRM-2004 OPERATE LAV-LOGISTICS (L)

CONDITION(S): Given an LAV-L, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.

2. Perform operator level troubleshooting.

3. Operate LAV-L.

4. Perform during operations checks.

5. Perform after operations checks.

6. Perform first echelon preventive maintenance checks and services (PMCS).

7. Operate associated SL-3 equipment.

8. Properly record inventories.

9. Make appropriate entries in ordnance vehicle logbook.

10. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08654A-12, Lubrication Instructions, LAV-Logistics

2. SL-3-08654A, Stocklist, LAV-Logistics

3. TM 08654A-10A, Operator's Manual, LAV Logistics

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-OPRM-1005 MAINTAIN LAV TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure safety and availability to support mission requirements per the references.

PERFORMANCE STEPS:

1. Maintain all common, fabricated, TMDE, and special tools.

2. Inventory all common, fabricated, TMDE, and special tools.

3. Take appropriate action for all unserviceable and missing tools.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual

2. SL-3 08721A, Tool Kit, Armor LAV-25

3. SL-3 08723A, Tool Set, F/M242 25mm Cannon

4. SL-3 08894A, Tool Kit, Organizational Maintenance, 2nd Echelon

5. SL-3 08895A, Tool Kit, Intermediate Maintenance, LAV

6. SL-3 08896A, Tool Kit, Maintenance, 4th Echelon, LAV

7. SL-3 10262A, GPIA LAV Electronics System Test Set

8. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other
hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all
LAV variants, systems, and components as required to support Mission-Essential task
Lists (METL) and equipment on hand.

4. Formal school training includes: introduction to and inventory of General
Mechanic's Tool Box, familiarization with special tools and test equipment used in the
course of instruction.

2147-OPRM-1006 PERFORM LAV PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To minimize corrective maintenance, in accordance with the procedures and specifications listed per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Perform all required PMCS.

3. Perform corrosion control.

4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

3. LI 08651A-12A, Lubrication Instructions, LAV-Recovery

4. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

5. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull

6. LI 08654A-12, Lubrication Instructions, LAV-Logistics

7. LI 08655A-12A, Lubrication Instructions, LAV-Mortar

8. LI 09999A-12, Lubrication Instructions, LAV-MEWSS

9. SL-4 08594A, Stocklist, Repair Parts, LAV-25

10. SL-4 08650A, Stocklist, Repair Parts, LAV-C2

11. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

12. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

13. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense

14. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics

15. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar

16. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS

17. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

18. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

19. TM 08650A-20B, Organizational Maintenance, LAV-C2

20. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

21. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

22. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull

23. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret

24. TM 08653A-20/2, Organizational Maintenance, LAV Air Defense Auto/Hull

25. TM 08654A-20B, Organizational Maintenance, LAV-Logistics

26. TM 08655A-20B, Organizational Maintenance, LAV-Mortar

27. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun

28. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METLs) and equipment on hand.

DUTY AREA 02 - ORGANIZATIONAL MAINTENANCE

2147-ORGM-1001 MAINTAIN LAV HULL (ALL VARIANTS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. SL-4 08650A, Stocklist, Repair Parts, LAV-C2

4. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

5. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

6. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense

7. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics

8. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar

9. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS

10. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

11. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

12. TM 08650A-20B, Organizational Maintenance, LAV-C2

13. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

14. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

15. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull

16. TM 08653A-20, Organizational Maintenance, LAV-Air Defense

17. TM 08654A-20B, Organizational Maintenance, LAV-Logistics

18. TM 08655A-20B, Organizational Maintenance, LAV-Mortar

19. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun

20. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this TASK include components not listed for instruction under tasks 2147.03.02 through 2147.03.14.

2147-ORGM-1002 MAINTAIN LAV SUSPENSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics,
removal and installation of shocks, struts, and control arm assemblies.

2147-ORGM-1003 MAINTAIN LAV ENGINE

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Make adjustments to specifications.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

2. TM 4700-15/1, Ground Equipment Record Procedures

3. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-ORGM-1004 MAINTAIN LAV TRANSMISSION

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Adjust modulator and complete road test.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. SL-4 8A191B/8B040B, Stocklist, Transmission

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

5. TM 8A191B-34/1, XMSN Auto Model 653

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics and identification of components of the LAV transmission.

2147-ORGM-1005 MAINTAIN LAV POWERPACK

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Identify discrepancies/unserviceable parts or components.

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-ORGM-1006 MAINTAIN LAV STEERING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Adjust components within specifications.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics and identification of components of the steering system, concept of operations, wheel alignment, and tire wear indicators.

2147-ORGM-1007 MAINTAIN LAV COOLING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components and path of flow of the cooling system.

2147-ORGM-1008 MAINTAIN LAV FUEL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. TI-10340-15/1C, Fuel Requirements, Authorized Fuel for Engine

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Steps include inspection, removal, and replacement of the following: power pack, mounting brackets, engine controls, and transmission controls.

2147-ORGM-1009 MAINTAIN LAV HULL ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 08650A-20B, Organizational Maintenance, LAV-C2

5. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

6. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

7. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull

8. TM 08653A-20, Organizational Maintenance, LAV-Air Defense

9. TM 08654A-20B, Organizational Maintenance, LAV-Logistics

10. TM 08655A-20B, Organizational Maintenance, LAV-Mortar

11. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

12. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components and path of flow of the electrical system.

2147-ORGM-1010 MAINTAIN LAV PNEUMATIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 08650A-20B, Organizational Maintenance, LAV-C2

5. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

6. TM 08653A-20, Organizational Maintenance, LAV-Air Defense

7. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

8. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow of the pneumatic system.

2147-ORGM-1011 MAINTAIN LAV HULL HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

4. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

5. TM 08650A-20B, Organizational Maintenance, LAV-C2

6. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

7. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

8. TM 08653A-20, Organizational Maintenance, LAV-Air Defense

9. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

10. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow of the hydraulic system.

2147-ORGM-1012 MAINTAIN LAV BRAKE SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Adjust to specifications.

4. Bleed brake system.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Steps include inspection, removal, and replacement of the following: brake shoes and wheel cylinders.

2147-ORGM-1013 MAINTAIN LAV DRIVE TRAIN

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components to include marine drive system.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts and components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics and identification of components of the LAV drive train, concept of operations, removal and installation of the transfer case, differentials, marine drive, and drive shafts.

2147-ORGM-2001 MAINTAIN LAV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and inspection of the fire suppression system.

5. Check for compliance of hydrostatic test date on storage tank. Perform visual inspection on tanks to ensure continued usage.

2147-ORGM-2002 MAINTAIN LAV-25 TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove and install LAV-25 turret.

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

4. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.03.16 and 2147.03.17.

2147-ORGM-2003 MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret

4. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow.

2147-ORGM-2004 MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow.

2147-ORGM-2005 MAINTAIN LAV-AT TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Perform turret bleed down procedures when working on pressurized hydraulic system.

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Remove LAV-AT Turret.

6. Install LAV-AT turret.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-10/1A, Operator's Manual, LAV-AT Turret

4. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.03.09 and 2147.03.10.

2147-ORGM-2006 MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Perform turret bleed down procedures when working on pressurized hydraulic system.

3. Remove unserviceable parts or components.

4. Repair/Replace unserviceable parts or components.

5. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2007 MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2008 MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Perform turret bleed down procedures when working on pressurized hydraulic system.

3. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other
hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, concept of operations, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2009 MAINTAIN LAV-RECOVERY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

3. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.03.23 and 2147.03.24.

2147-ORGM-2010 MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

3. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2011 MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery

2. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

3. SL-4 08594A, Stocklist, Repair Parts, LAV-25

4. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

5. TM 08651A-10A, Operator's Manual, LAV Recovery

6. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

7. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2012 MAINTAIN M242 25MM AUTOMATIC CHAIN GUN

CONDITION(S): Given an M242 25mm automatic chain gun in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret

2. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and removal and installation of components within authorized echelon of maintenance.

2147-ORGM-2013 MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Maintain LAV-AT turret sights, optics, and viewing devices within the authorized echelon of maintenance per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8H161B-20, Light Armored Vehicle (LAV) Thermal Sight System

2. TM 8H161B-34, Light Armored Vehicle (LAV) Thermal Sight System

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Steps include inspection, removal, and replacement of the following: night sight and associated equipment, daysight/tracker associated equipment, image transfer assembly, and purging the image transfer assembly.

2147-ORGM-2014 MAINTAIN LAV-AT TURRET CONTROLS AND INDICATORS

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Maintain LAV-AT turret controls and indicators within the authorized echelon of maintenance per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

2. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Steps include inspection, removal, and replacement of the following: turret controls and indicators.

2147-ORGM-2015 CONVERT LAV-AT TURRET STOW AND LOW STOW

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Convert the LAV-AT turret launcher/erection arm assembly per applicable references.

PERFORMANCE STEPS:

1. Convert stow to low stow.

2. Convert low stow to stow.

3. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

2. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

DUTY AREA 03 - INTERMEDIATE MAINTENANCE

2147-INTM-2001 MAINTAIN LAV HULL (ALL VARIANTS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. LI 08651A-12A, Lubrication Instructions, LAV-Recovery

3. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull

4. LI 08654A-12, Lubrication Instructions, LAV-Logistics

5. LI 08655A-12A, Lubrication Instructions, LAV-Mortar

6. LI 09999A-12, Lubrication Instructions, LAV-MEWSS

7. SL-4 08594A, Stocklist, Repair Parts, LAV-25

8. SL-4 08650A, Stocklist, Repair Parts, LAV-C2

9. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

10. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

11. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense

12. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics

13. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar

14. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS

15. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

16. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

17. TM 08650A-20B, Organizational Maintenance, LAV-C2

18. TM 08650A-34, Intermediate Maintenance, LAV-C2

19. TM 08651A-20B, Organizational Maintenance, LAV-Recovery

20. TM 08651A-34, Intermediate Maintenance, LAV-Recovery

21. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull

22. TM 08652A-34/6A, Intermediate Maintenance, LAV Anti Tank Auto/Hull

23. TM 08653A-20, Organizational Maintenance, LAV-Air Defense

24. TM 08653A-34/3, Intermediate Maintenance, LAV Air Defense Auto/Hull

25. TM 08654A-20B, Organizational Maintenance, LAV-Logistics

26. TM 08655A-20B, Organizational Maintenance, LAV-Mortar

27. TM 08655A-34, Intermediate Maintenance, LAV-Mortar

28. TM 09999A-14, MEWSS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not listed for instruction under tasks 2147.04.02 through 2147.04.12.

2147-INTM-2002 MAINTAIN LAV SUSPENSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered may include but are not limited to the following: repair of planetary gear and control arm.

2147-INTM-2003 MAINTAIN LAV ENGINE

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. TM 4700-15/1, Ground Equipment Record Procedures

3. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: repair of blower seals, turbocharger seals, tune-up, separation of engine from transmission, and cylinder head inspection and replacement.

2147-INTM-2004 MAINTAIN LAV TRANSMISSION

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 8A191B/8B040B, Stocklist, Transmission

3. TM 4700-15/1, Ground Equipment Record Procedures

4. TM 8A191B-34/1, XMSN Auto Model 653

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: separation of transmission from engine.

2147-INTM-2005 MAINTAIN LAV POWERPACK

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

5. TM 8A191B-34/1, XMSN Auto Model 653

6. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: removal and separation of engine and transmission.

2147-INTM-2006 MAINTAIN LAV STEERING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.

2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.

4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-INTM-2007 MAINTAIN LAV HULL ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. SL-4 08650A, Stocklist, Repair Parts, LAV-C2
3. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
4. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
5. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense
6. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics
7. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar
8. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS
9. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
10. TM 08650A-34, Intermediate Maintenance, LAV-C2
11. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
12. TM 08652A-34/6A, Intermediate Maintenance, LAV Anti Tank Auto/Hull
13. TM 08653A-34/3, Intermediate Maintenance, LAV Air Defense Auto/Hull
14. TM 08654A-34, Intermediate Maintenance, LAV-Logistics
15. TM 08655A-34, Intermediate Maintenance, LAV-Mortar

16. TM 09999A-14, MEWSS

17. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: reading schematics.

2147-INTM-2008 MAINTAIN LAV HULL PNEUMATIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-INTM-2009 MAINTAIN LAV HULL HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-INTM-2010 MAINTAIN LAV BRAKE SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-INTM-2011 MAINTAIN LAV DRIVE TRAIN

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: replace differential, transfer case, marine drive, and propeller drive seals.

2147-INTM-2012 MAINTAIN LAV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2147-INTM-2013 MAINTAIN LAV-25 TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.04.14 and 2147.04.15.

2147-INTM-2014 MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Make adjustments to specifications.

4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret

2. SL-4 08594A, Stocklist, Repair Parts, LAV-25

3. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: repair of hydraulic power supply, manual elevation hand crank, elevation actuator, and traverse drive assembly.

2147-INTM-2015 MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25

2. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: repair of the PDA, CDA, and hand control assemblies.

2147-INTM-2016 MAINTAIN LAV-AT TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

2. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.04.17 through 2147.04.19.

2147-INTM-2017 MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

4. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Perform turret bleed down procedures when working on pressurized hydraulic system.

5. Items covered include but are not limited to the following: repair of hydraulic power supply, azimuth drive, and accumulator assemblies.

2147-INTM-2018 MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret

2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

4. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: RAD adjustment, repair of gunner's control panel, and microswitch replacement and adjustment.

2147-INTM-2019 MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank

2. TM 08652A-34/3, Organizational Maintenance, LAV Anti Tank Turret

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: ITA removal and installation.

2147-INTM-2020 MAINTAIN LAV-RECOVERY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 08651A-34, Intermediate Maintenance, LAV-Recovery

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.04.21 and 2147.04.22.

2147-INTM-2021 MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

3. TM 08651A-34, Intermediate Maintenance, LAV-Recovery

4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: reading schematics.

2147-INTM-2022 MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery

2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

4. TM 08651A-34, Intermediate Maintenance, LAV-Recovery

5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: winch adjustment, troubleshooting, remove and install crane, and reading schematics.

2147-INTM-2023 MAINTAIN M242 25MM AUTOMATIC CHAIN GUN

CONDITION(S): Given an M242 25mm automatic chain gun in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system with software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

2. Identify, remove, repair, and replace unserviceable parts or components.

3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret

2. TM 08672A-30&P, Maintenance Manual, 25mm Automatic Chain Gun

3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2147-ADMN-2001 MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.

2. Manage support and test equipment use, inventory, and maintenance.

3. Ensure maintenance of the technical publications library.

4. Coordinate supply support requirements.

5. Maintain preventive/corrective maintenance schedules.

6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.

7. Ensure shop safety procedures are established and followed.

8. Ensure appropriate disposal of hazardous waste.

9. Conduct routine and unscheduled internal inspections, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual

2. Applicable equipment technical manuals

3. MCO 4731.1, Oil Analysis Program for Ground Equipment

4. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)

5. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

6. MCO 4855.10, Product Quality Deficiency Report (PQDR)

7. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program

8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

9. MCO P4400.150, Consumer-Level Supply Policy Manual

10. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual

11. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

12. TM 4700-15/1, Ground Equipment Record Procedures

13. UM 4790-5, MIMMS AIS Field Maintenance Procedures

2147-ADMN-2002 ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outlined in the references.

2. Review existing maintenance management procedures for compliance.

3. Ensure compliance with maintenance management programs, as applicable:

   a. Modification Control Program

   b. Warranty Program

c. Joint Oil Analysis Program

d. Inspect Only As Necessary Program

e. WIR Program

f. Quality Control Program

g. Administrative Dead Line Program

h. Contact Team Program

i. Maintenance Stand-Down Program

j. Corrosion Prevention and Control Program

k. Hazardous Communication Program

l. Tool Control and Calibration Programs

m. Embarkation Program

4. Ensure actions are completed to correct any deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

2. TM 4700-15/1, Ground Equipment Record Procedures

3. UM 4790-5, MIMMS AIS Field Maintenance Procedures

2147-ADMN-2003 PERFORM OPERATOR TRAINING

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.

2. Provide instruction and guidance on performance of operator maintenance.

3. Provide instruction and guidance on maintenance safety program.

4. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO 4731.1, Oil Analysis Program for Ground Equipment

2. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE)
Calibration and Maintenance Program (CAMP)

3. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program

4. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program

5. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS)
Introduction Manual

6. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual

7. TM 4700-15/1, Ground Equipment Record Procedures

8. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2147-ADMN-2004 PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system and applicable software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.

2. Identify preventive maintenance requirements.

3. Develop preventive maintenance schedule.

4. Update job status.

5. Update man-hours.

6. Update priority.

7. Update meters.

8. Identify and validate modification requirements.

9. Develop calibration schedule.

10. Develop pre-expended bin (PEB)/parts package.

11. Create adhoc report.

12. Analyze adhoc report.

13. Perform evacuation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual

2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual

2147-ADMN-2005 CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies, and the references.

STANDARD(S): To provide appropriate training sustainment and progression for subordinates per the references.

PERFORMANCE STEPS:

1. Review the annual training plan for training requirements.

2. Identify individual training requirements.

3. Develop a training schedule.

4. Apply training program policies and procedures.

5. Schedule support requirements, as needed.

6. Conduct ordnance maintenance training appropriate to unit size and mission.

7. Participate in unit training evaluations and inspections, as required.

8. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm

2. MCO 1510.34, Individual Training Standards System (ITSS)

3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3

4. MCO 1553.3, Marine Corps Unit Training Management

5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)

4. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

MOS 2149

ORDNANCE VEHICLE MAINTENANCE CHIEF

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2149-ADMN-2001 ESTABLISH MAINTENANCE MANAGEMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that mission requirements are completed per the references.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. Analyze capabilities.
3. Determine resource requirements.
4. Analyze external requirements.
5. Develop procedures to comply with functional areas of maintenance management.
6. Implement maintenance management programs.
7. Supervise maintenance management programs.

REFERENCES:

1. MCO P4400.150_
2. MCO P4790.2_
3. MCO P1200.7_
4. Local Policies and Procedures
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2002 SUPERVISE GROUND ORDNANCE MAINTENANCE RESOURCES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, personnel, maintenance facilities and a budget.

STANDARD: To ensure that mission requirements and equipment readiness are maintained per the references.

PERFORMANCE STEPS:

1. Identify available resources.
2. Consolidate time into usable blocks.
3. Assist the Maintenance Officer/MMO in conducting T/O&E reviews.
4. Identify personnel strengths and weaknesses to match them against mission requirements.

5. Ensure that repair parts and maintenance related supplies are requisitioned when required.
6. Ensure accountability of repair parts and maintenance related supplies.
7. Identify all tools, chests, sets and TMDE equipment are on hand to support mission requirements.
8. Identify facilities required to support the mission.
9. Identify publication requirements to support the mission.
10. Identify funding requirements to support the mission.

REFERENCES:

1. MCO P5600.31
2. MCO P4790.2_
3. MCWP 4-11
4. MCDP-4
5. TM 4700-15/1_
6. MCO P4400.150_
7. MCO 4733.1_
8. MCO P5215.1_
9. MCO P5215.17_
10. MCO 4710.8
11. Table of Organization & Equipment (T/O&E)
12. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2003 SUPERVISE PUBLICATIONS AND DIRECTIVES IN SUPPORT OF GROUND ORDNANCE EQUIPMENT PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that maintenance libraries and mission requirements are maintained per the references.

PERFORMANCE STEPS:

1. Determine publication requirements.
2. Register requirements.
3. Establish control procedures.
4. Maintain the publication control system.
5. Conduct internal reviews.

REFERENCES:

1. Table of Organization & Equipment (T/O&E)
2. MCO P5215.1_
3. SL 1-2/3
4. UM-MCPDS
5. Local Policies and Procedures
6. UM-PLMS

7. MCO 5600.31
8. MCO P5215.17
9. MCO P4790.2_
10. Special allowance list

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2004 MANAGE GROUND ORDNANCE MAINTENANCE MOS TRAINING PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and personnel records.

STANDARD: To ensure that maintenance MOS training is conducted per the references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Identify training resources.
3. Establish the MOS training sustainment matrix.
4. Schedule annual MOS training.
5. Develop lesson plans.
6. Conduct training.
7. Document training.
8. Conduct internal reviews of training plan.

REFERENCES:

1. MCO 1510 Series
2. MCO P4790.2_
3. MCO 1553.3
4. MCRP 3-OA
5. MCRP 3-OB
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2005 SUPERVISE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment is utilized per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Establish control procedures.
3. Supervise tool control procedures.
4. Supervise calibration procedures.
5. Supervise preventive maintenance for support equipment.
6. Supervise corrective maintenance for support equipment.
7. Conduct internal reviews.

REFERENCES:

1. MCO P4790.2_
2. TM 4700-15/1_
3. MCO 4733.1_
4. MCO P4400.150_
5. TI 4733-15/1_
6. TI 4733-15/11_
7. Current MARADMINs
8. Applicable Technical Information
9. Table of Organization & Equipment (T/O&E)
10. Special Allowance List

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibrations equipment). Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2006 SUPERVISE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that supply support programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify supply requirements.
2. Supervise the accountability for all repair parts.
3. Supervise validation procedures.
4. Supervise reconciliation procedures.
5. Conduct internal reviews.

REFERENCES:

1. MCO P4400.82
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 8300.1
5. MCO 4340.1
6. MCO P4400.150_
7. UM 4400-124

8. Table Of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2007 SUPERVISE GROUND ORDNANCE MAINTENANCE FACILITIES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, and facilities.

STANDARD: To ensure that maintenance facilities are utilized per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify facility requirements.
2. Develop maintenance flow plan.
3. Organize facilities to support mission.
4. Evaluate Operational Risk Management (ORM).
5. Maintain facilities.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. Applicable Technical Information
4. MCO P11262.2
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2008 SUPERVISE MAINTENANCE PRODUCTION SCHEDULES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD: To ensure that maintenance production is accomplished per the mission requirements available resources and references.

PERFORMANCE STEPS:

1. Determine available resources.
2. Evaluate workload.
3. Consolidate time into usable blocks.
4. Determine production capability.
5. Prioritize workload.
6. Assign work.

7. Ensure quality control procedures.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. Local Policies and Procedures
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2009 SUPERVISE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that maintenance related programs are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. Supervise Product Quality Deficiency Report (PQDR) program.
3. Supervise Corrosion Prevention and Control (CPAC) program.
4. Supervise a Quality Control (QC) program.
5. Supervise unit level execution of Depot Level Maintenance programs.
6. Supervise execution of Contract Logistic Support (CLS).
7. Supervise execution of equipment warranties.
8. Supervise demilitarization procedures.
9. Supervise Military Awards/Incentives Program.

REFERENCES:

1. MCO P4790.2_
2. MCO 4733.1_
3. MCO 4855.10_
4. MCO P4790.1_
5. MCO 4105.2_
6. MCO 1650.17_
7. MCO P4790.3_
8. MCO 3000.11C
9. MCO 4790.18
10. MCO 8300.1
11. TM 4795-12
12. TM 4795-34
13. TM 4750-15/1
14. DOD 4160.21-M-1
15. Applicable Unit Logistics Support Summary (ULSS)
16. Applicable Technical Information
17. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2010 SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify PMCS requirements.
2. Identify cyclic maintenance requirements.
3. Identify special maintenance requirements.
4. Identify deferred maintenance requirements.
5. Develop PMCS schedule.
6. Supervise documentation of PMCS program.
7. Supervise Quality Control (QC) procedures for PMCS program.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Technical Information
5. Local Policies and Procedures
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2011 SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify corrective maintenance requirements.
2. Supervise the prioritization of corrective maintenance requirements.
3. Ensure all applicable maintenance procedures are followed.

4. Ensure all applicable reporting procedures are followed.
5. Monitor progress of corrective maintenance.
6. Ensure quality control procedures are followed.
7. Maintain liaison with external maintenance activities.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Technical Information
5. Applicable Unit Logistics Support Summary (ULSS)
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2012 SUPERVISE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify equipment modification requirements.
2. Verify equipment configurations.
3. Supervise modifications.
4. Supervise documentation of modifications.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Modification Instructions (MI’s)
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2013 MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine environmental compliance requirements.
2. Monitor unit environmental compliance with unit representative.
3. Implement corrective actions.

REFERENCES:

1. 29 CFR 1910.12000_
2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.150_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of environmental compliance should include but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2014 SUPERVISE SHOP SAFETY PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine safety program requirements.
2. Monitor compliance with shop safety procedures.
3. Implement corrective actions.

REFERENCES:

1. 29 CFR 1910.12000_
2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_

5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygeine. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2015 SUPERVISE EMBARKATION OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine embarkation requirements.
2. Ensure that requirements are documented.
3. Supervise coordination with embarkation personnel.
4. Supervise the preparation of equipment for embark.

REFERENCES:

1. MSE/Unit embarkation
2. Table of Organization & Equipment (T/O&E)
3. MCWP 4-1
4. NAVMC 2706
5. MCO 4030.16_
6. MCO 4030.19_
7. MCO 4030.25_
8. MCO 4030.33_
9. MCO 4030.36_
10. MCO 4110.2
11. MCO 4400.16_
12. MCO P4400.150_
13. MCO P4600.14_
14. MCO P4600.19_
15. MCO 4600.25_
16. MCO 4600.30_
17. MCO 4610.15_
18. MCO P4610.19_

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2016 SUPERVISE MAINTENANCE SHOP INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify maintenance information requirements.
2. Identify required output reports.
3. Supervise completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Recommend corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:

1. MCO P4790.2_
2. Current MARADMINs
3. Applicable Technical Information
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+), and Defense Messaging System (DMS). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2017 PREPARE ROUTINE CORRESPONDENCE, MESSAGES AND REPORTS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and the information required to publish.

STANDARD: To ensure correspondence, messages and reports are completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Draft correspondence as required.
2. Draft messages as required.
3. Draft reports as required.
4. Supervise maintenance of files.

REFERENCES:

1. SECNAVINST 5216.5_
2. Local Policies and Procedures
3. MCO P1070.12
4. MCWP 3-1
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2018 COORDINATE LOAD TEST PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment and equipment records.

STANDARD: To ensure that load testing is conducted, certified, and maintained per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify load testing requirements.
2. Establish a load test certification schedule.
3. Assist certifying authority.
4. Supervise completion of administrative functions.

REFERENCES:

1. MCO P11240.106_
2. MCO P11262.2_
3. NAVFAC P307_
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2019 SUPERVISE PHYSICAL SECURITY OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD: To ensure that ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify security requirements.
2. Review security procedures.
3. Evaluate security compliance of ordnance storage facilities.
4. Assist in Arms, Ammunition & Explosives (AA&E) screenings.
5. Ensure personnel are security trained.
6. Ensure accountability of AA&E.

REFERENCES:

1. MCO P5530.14
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 4340.1_
7. MCO 8300.1_
8. Current ALMARs
9. Current MARADMINs
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2020 ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Monitor completion of administrative functions.

REFERENCES:

1. MCO P4790.2_
2. Applicable Technical Information
3. Applicable Unit Logistics Support Summary (ULSS)
4. MCO 4420.15_
5. MCO 8300.1_
6. MCO 4400.82_
7. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-ADMN-2021 IDENTIFY THE PHASES IN THE ACQUISITION PROCESS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that the equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify lifecycle milestones in the acquisition process.
2. Identify types of acquisition.

REFERENCES:

1. TM 4420-15/1
2. MCO 4105 Series
3. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (MSgt)

DUTY AREA 2 TECHNICAL FUNCTIONS

2149-TECH-2001 SUPERVISE RECOVERY OPERATIONS OF ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and equipment.

STANDARD: To ensure that the recovery of vehicle is safely accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Conduct recovery training.
2. Identify recovery requirements.

3. Conduct Battle Damage Assessment and Repair (BDAR).
4. Conduct ORM for recovery.
5. Supervise recovery operations.
6. Coordinate external recovery support.
7. Monitor completion of administrative functions.

REFERENCES:

1. MCO P4790.2_
2. TI-8005-25/12
3. FMFRP 4-34
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-TECH-2002 SUPERVISE LICENSING PROGRAM FOR ORDNANCE RECOVERY VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel records and equipment.

STANDARD: To ensure that the required personnel are trained and licensed per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify licensing requirements.
2. Review licensing program.
3. Coordinate licensing training.
4. Ensure training is documented.
5. Coordinate ORM.

REFERENCES:

1. MCO 8400.6_
2. FM 21-305 Manual for the Wheeled Vehicle Driver
3. Applicable Technical Information
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-TECH-2003 SUPERVISE THE JOINT OIL ANALYSIS PROGRAM (JOAP) FOR ORDNANCE VEHICLE

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and NAVMC 10561.

STANDARD: To ensure that the oil analysis is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine equipment requiring oil analysis.
2. Analyze results.
3. Determine corrective action.
4. Monitor administrative functions.

REFERENCES:

1. MCO 4790.2_
2. TI 4731-14/1C
3. MCO 4731.1
4. TM 4700-15/1_
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Administrative function includes records and reports. Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2149-TECH-2004 PROVIDE TECHNICAL SUPERVISION IN THE REPAIR FOR THE FAMILY OF ORDNANCE VEHICLES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records and maintenance facilities.

STANDARD: To ensure that maintenance of ordnance vehicles is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Identify deficiencies.
3. Identify maintenance solutions.
4. Supervise maintenance.
5. Supervise maintenance personnel.
6. Ensure safety of personnel.
7. Supervise completion of administrative functions.

REFERENCES:

1. MCO P4790.2_
2. TI- 8005-25/12
3. TM 4700.15/1_
4. Applicable Technical Information

5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

MOS 2161

MACHINIST

DUTY AREA 01 - OPERATION AND ORGANIZATIONAL MAINTENANCE

2161-OPRM-1001 OPERATE A BANDSAW

CONDITION(S): Given a machinist tool box, a lay out die, a piece of raw stock, special measuring tools, a shop drawing, safety equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that the bandsaw is set up for filing, cutting, polishing, and contour cutting, per the Machinist's Handbook, and references.

PERFORMANCE STEPS:

1. Lay out work.

2. Perform preventive maintenance check on bandsaw.

3. Set up bandsaw for operation.

4. Cut stock to dimensions given on shop drawing.

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PVT)

2161-OPRM-1002 OPERATE A BENCH GRINDER

CONDITION(S Given machinist's tool box, material required for grinding, shop drawing, coolant, safety equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the bench grinder will be operated safely per the references.

PERFORMANCE STEPS:

1. Lay out work.

2. Perform preventive maintenance check on grinder.

3. Start bench grinder.

4. Dress grinding wheel.

5. Grind material to size per shop drawing.

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PVT)

2161-OPRM-1003 OPERATE A HORIZONTAL BAND SAW (CUTOFF SAW)

CONDITION(S): Given machinist's tool box, stock, safety equipment, lay out die, shop drawing, manufacturer/operator's manual, machinist's handbook, measuring tools, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that cutoff operations are completed accurately and safely per the references.

PERFORMANCE STEPS:

1. Lay out work.

2. Perform preventive maintenance check on saw.

3. Set up saw for specific cut.

4. Perform the cutting operation.

5. Complete required maintenance and/or administrative forms and records applicable.

REFERENCE(S):

1. Machinist’s handbook

2. Operator’s manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (PVT)

2161-OPRM-1004 OPERATE CYLINDRICAL GRINDER

CONDITION(S): Given versa mill, machinist's tool box, shop drawing, safety equipment, and automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the project will be produced accurately and safely per the references.

PERFORMANCE STEPS:

1. Lay out work.

2. Perform preventive maintenance check on grinder.

3. Set up machine.

4. Grind stock per shop drawing.

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.
INITIAL TRAINING SETTING: FLC (Preliminary) Sustainment (6) Req By (Pvt)

2161-OPRM-1005 OPERATE A DRILL PRESS

CONDITION(S): Given drill press, machinist's toolbox lay out equipment, stock, safety equipment, shop drawing, appropriate bits, measuring tools, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that the drill press will be operated safely and per the specifications and references.

PERFORMANCE STEPS:

1. Lay out stock.

2. Perform preventive maintenance check on drilling machine and bits.

3. Set up drill.

4. Perform drilling operation per shop drawings.

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1006 OPERATE A DRILL GRINDING MACHINE

CONDITION(S): Given a drill grinding machine, drill bits to be sharpened, safety equipment, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the drill grinding machine is operated safely and per the machinist's handbook and references.

PERFORMANCE STEPS:

1. Set up drill grinding machine.
2. Grind drill bits.

3. Conduct Preventive Maintenance Checks and services (PMCS)

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual.

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (LCpl)

2161-OPRM-1007 OPERATE ELECTRO DISINTEGRATING MACHINE

CONDITION(S): Given electro disintegrating machine accessories, machinist's tool box, piece containing broken bolt, hardened drill bit, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure electro disintegrating machine is operated safely per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance check on machine.

2. Remove broken parts as required.

3. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Operator's manual

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.
INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2161-OPRM-1008 OPERATE HONING MACHINE

CONDITION(S): Given a honing machine, accessories, items to be honed, safety equipment, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the honing operations are conducted safely per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance checks on honing machine.

2. Set up machine for operation.

3. Perform honing operations.

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2161-OPRM-1009 OPERATE HYDRAULIC PRESS

CONDITION(S): Given an hydraulic press, material or equipment requiring pressing in or out, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that the pressing operations are completed safely and project is completed according to design, specifications, and the references.

PERFORMANCE STEPS:

1. Set up hydraulic press.
2. Perform pressing operation.

3. Conduct Preventive Maintenance Checks and services (PMCS).

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: FLC (Preliminary) Sustainment (6) Req By (Pvt)

2161-OPRM-1010 OPERATE LAPPING MACHINE

CONDITION(S): Given lapping machine, lapping compound, parts requiring lapping, in a garrison or field environment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that lap designated parts are lapped properly after determining proper grit of lapping compound per the references.

PERFORMANCE STEPS:

1. Select proper grit of lapping compound.

2. Set up machine.

3. Perform lapping operation.

4. Check accuracy of lapping operation.

5. Clean up lapped material and machine.

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools
5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: This training standard only applies to Marines working in a shop that is equipped with the machine and is therefore not a requirement for all Marines serving in the 2161 MOS. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (LCpl)

2161-OPRM-1011 SET UP LATHE

CONDITION(S): Given specific task, lathe, accessories, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that the lathe is operational and the correct method of holding material in lathe is determined using available accessories per the references.

PERFORMANCE STEPS:

1. Determine type of operation that must be performed.

2. Determine type of holding device or devices required to perform operation.

3. Perform required lathe procedures.

4. Conduct Preventive Maintenance Checks and services (PMCS).

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1012 PERFORM THREADING OPERATIONS

CONDITION(S): Given lathe with attachments, requirement to cut internal or external threads, measuring equipment, material to thread, alternate holding device, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the device cuts internal or external threads to include V sharp, acme, square cuts on material to required specifications using thread per inch or revolutions per inch method.

PERFORMANCE STEPS:

1. Determine specifications for type of thread to be cut.

2. Set up lathe, holding devices, accessories and material to be threaded.

3. Perform external threading with lathe.

4. Perform external threading with die.

5. Perform internal threading with lathe.

6. Perform internal threading with tap.

7. Measure thread to ensure correct tolerances.

8. Perform Preventive Maintenance Checks and services (PMCS).

9. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1013 PERFORM LATHE OPERATIONS

CONDITION(S): Given lathe with attachments, drill bits, reamers, material requiring one or more of these operations, machinist's tool box, specifications, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure drilling, boring, and reaming operations on material using lathe with attachments to required specifications.

PERFORMANCE STEPS:

1. Determine type of drilling, boring and/or reaming operation required.

2. Set up lathe with required attachments.

3. Perform drilling, boring, and/or reaming operations.

4. Ensure finished product meets specifications.

5. Conduct Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1014 PERFORM LATHE TURNING OPERATIONS

CONDITION(S): Given lathe with attachments, measuring equipment, machinist's tool box, material requiring turning, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure lathe turning operations to include straight taper, facing, grooving, radii, parting, filing and polishing, using lathe with attachments are to required specifications, per the references.

PERFORMANCE STEPS:

1. Determine type of turning operation required.

2. Set up lathe and accessories for required operations.

3. Perform turning operation.

4. Ensure turned material meets required specifications.

5. Conduct Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1015 OPERATE MILLING MACHINE

CONDITION(S): Given milling machine with attachments and accessories, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that milling operations are performed to required specifications per the references.

PERFORMANCE STEPS:

1. Determine type of operation required.

2. Set up milling machine to perform required operation.

3. Perform milling operation or series of operations.

4. Ensure milled material meets required specifications.

5. Conduct Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1016 PERFORM CUTTING OPERATION UTILIZING OXYACETYLENE WELDING EQUIPMENT

CONDITION(S): Given oxyacetylene welding equipment, material to be cut, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure cutting operations are performed safely and accurately per the references.

PERFORMANCE STEPS:

1. Lay out work.

2. Set up equipment.

3. Perform cutting operation.

4. Conduct Preventive Maintenance Checks and services (PMCS).

5. Complete required maintenance and/or administrative forms and records, when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-237, Welding Theory

5. TC 9-524, Fundamentals of Machine Tools

6. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (LCpl)

2161-OPRM-1017 OPERATE HARDNESS TESTER

CONDITION(S): Given hardness tester, specifications, material to be tested, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the material is tested as specified per the references.

PERFORMANCE STEPS:

1. Determine type of test to be conducted.

2. Set up machine and material to be heated.

3. Conduct hardness test.

4. Document results of test.

5. Perform Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1018 OPERATE SURFACE GRINDER

CONDITION(S): Given surface grinder, material to be ground, test equipment, safety equipment, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that the material is ground to specifications per the references.

PERFORMANCE STEPS:

1. Determine speed and feed to be used.

2. Set up machine for grinding operation.
3. Perform grinding operation.

4. Check ground material for proper tolerances.

5. Conduct Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (Cpl)

2161-OPRM-1019 OPERATE VALVE GRINDING MACHINE

CONDITION(S): Given valve grinding machine, valve, safety equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the valve will be ground to specifications per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance check on machine.

2. Set machine for required angle.

3. Perform valve grinding operation.

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools
5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2161-OPRM-1020 OPERATE LATHE MILLING ATTACHMENT/VERSA MILL

CONDITION(S): Given lathe milling attachment/versa mill, material to be milled, cutters, lathe with accessories, machinist's tool box, measuring instruments, specifications, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure milling operations are accurate, performed per specifications, and the references.

PERFORMANCE STEPS:

1. Determine type of milling operation required.

2. Set up lathe with milling attachment for desired operation.

3. Perform required milling operations.

4. Ensure material milled conforms to required specifications.

5. Conduct Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM
4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-OPRM-1021 OPERATE MACHINIST’S VAN

CONDITION(S): Given machine shop van, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the machinist’s van is ready to perform required machinist operations per the references.

PERFORMANCE STEPS:

1. Set up machinist’s van.

2. Inventory machinist’s van.

3. Perform machinist’s van Preventive Maintenance Checks and services (PMCS).

4. Perform machining operations.

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Applicable SL-3s

2. Machinist's handbook

3. Operator’s Manual

4. SC 4940-95-CL-B02 Shop Equipment Semi-Trailer Mounted

5. TM 9-4940-559-14&P Shop Equipment, General Purpose Repair Semi-Trailer Mounted, Model SEGPRSM

6. TM 4700-15/1, Ground Equipment Record Procedures Manual

7. UM 4400-124, FMF SASSY Using Unit Procedures

8. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: FLC (Preliminary) Sustainment (6) Req By (Pvt)

2161-OPRM-1022 OPERATE A DIGITAL READ OUT (DRO)

CONDITION(S): Given a machine with x, y, and z digital read out, automated systems with internet access, the current authorized technical information, and machinist tool box.

STANDARD(S): To ensure operations are performed to required specifications per the references.
PERFORMANCE STEPS:

1. Zero display.

2. Use an edge finder/cutting tool to set absolute zero.

3. Set absolute zero using tool offset.

4. Change the position of absolute zero.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (12) Req By (Pvt)

2161-OPRM-1023 PERFORM KNURLING OPERATIONS

CONDITION(S): Given lathe with attachments, measuring equipment, material to knurl, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the device knurls on material to required specifications per the references.

PERFORMANCE STEPS:

1. Determine specifications for type of knurl.

2. Set up lathe, accessories and material to be knurled.

3. Execute knurling operations.

4. Measure knurled material to ensure correct tolerances.

5. Perform Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TC 9-524, Fundamentals of Machine Tools

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

DUTY AREA 02 – ORGANIZATIONAL MAINTENANCE

2161-ORGM-1001 PERFORM CORRECTIVE MAINTENANCE (CM) ON MACHINIST'S EQUIPMENT

CONDITION(S): Given machinist's equipment requiring corrected maintenance, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure machinist’s equipment assigned to repair facility is maintained in a serviceable condition per the references.

PERFORMANCE STEPS:

1. Identify defect.
2. Determine warranty status.

3. Determine shop capability to perform corrective maintenance.

4. Determine facility maintenance capabilities and time line.

5. Identify external source of corrective maintenance.

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Operator’s Manual

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. Machinist’s Handbook

4. MCO P4790.2_, MIMMS Field Procedures Manual

5. TM 4700-15/1, Ground Equipment Record Procedures Manual

6. TM 9-243, Common Tools Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. The chain of command is the final authority for the outsourcing of all corrective maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (Cpl)

DUTY AREA 03 - EQUIPMENT REPAIR AND FABRICATION

2161-FABR-1001 EXTRACT BROKEN BOLT, TAP, DRILL BIT, OR STUD

CONDITION(S): Given broken bolt, tap, drill bit or stud, drill, easy outs, stud extractor, electro-disintegrating machine, oxyacetylene welding torch, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure broken machine part is extracted correctly per the references.

PERFORMANCE STEPS:

1. Determine what must be extracted.

2. Determine appropriate extraction procedure.

3. Extract broken part.

4. Recondition threaded hole as required.

5. Perform Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TM 4700-15/1, Ground Equipment Record Procedures Manual

4. TC 9-524, Fundamental of Machine Tools and Operator’s Manual

5. Operator’s Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-FABR-1002 EXTRACT THREAD INSERTS

CONDITION(S): Given equipment with damaged threads, insert kit, machinist's tool box, safety equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure inserts are properly inserted, extracted and replaced.

PERFORMANCE STEPS:

1. Read directions on insert kit.

2. Insert/extract thread insert.

3. Perform Preventive Maintenance Checks and services (PMCS).

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TC 9-524, Fundamental of Machine Tools and Operator’s Manual

4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS:

1. Types of thread kits include: helicoil, keensert, and roseanne.
2. Instructions are provided with each thread insert repair kit.

3. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-FABR-1003 PREPARE SHOP DRAWING

CONDITION(S): Given specifications of items to be drawn, drafting equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure drawing is prepared to specification per the references.

PERFORMANCE STEPS:

1. Gather necessary materials for drawing.

2. Complete drawing, ensuring accuracy and compliance with requested specifications.

3. Complete required maintenance and or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. FM 5-553, GENERAL DRAFTING

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-FABR-1004 WELD BANDSAW BLADE

CONDITION(S): Given bandsaw with welder, spool or bandsaw blade, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that blade is cut and welded to specifications per the references.

PERFORMANCE STEPS:

1. Cut blade to appropriate length.

2. Grind ends to match.

3. Place on welder blade holders.

4. Weld and anneal blades.

5. Grind off excess weld.

6. Check on blade thickness gage.

7. Fit on bandsaw.

8. Perform cutting operations.

9. Perform Preventive Maintenance Checks and services (PMCS).

10. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Operator's manual

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TM 4700-15/1, Ground Equipment Record Procedures Manual

4. TM 9-3419-227-10, Saw Band Metal Cutting

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-FABR-2001 PERFORM HEAT TREATING OPERATION

CONDITION(S): Given metal object, heat source, quenching and annealing material, specifications from hardness tester, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the operation is accomplished to specifications required and verify results using hardness tester per the references.

PERFORMANCE STEPS:

1. Determine material to be used for type of heat treating to be performed.

2. Apply proper heat to metal treated.

3. Quench or anneal metal to specifications.

4. Verify hardness of treated metal by performing hardness test.

5. Perform Preventive Maintenance Checks and services (PMCS).

6. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TM 4700-15/1, Ground Equipment Record Procedures Manual

4. TM 9-237, Welding Theory and Application

5. Operator's Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (LCpl)

2161-FABR-2002 SHARPEN MILLING CUTTERS

CONDITION(S): Given a cutter grinder, accessories, cutters to be sharpened, safety equipment, machinist's tool box, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure cutters are sharpened to specification per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance check on cutter grinder.

2. Set up grinder for cutter to be ground.

3. Grind cutter to required specification.

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Operator’s Manual

2. Machinist's handbook

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (Cpl)

2161-FABR-1005 SHARPEN TURNING TOOL BITS

CONDITION(S): Given bench grinder, coolant, tool bit, safety equipment, and automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure bits are sharpened to required shape per the specifications and references.

PERFORMANCE STEPS:

1. Perform preventive maintenance check on bench grinder.

2. Grind turning tool bit to required specification.

3. Quench tool bit when needed.

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. Operator's manual

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. TM 4700-15/1, Ground Equipment Record Procedures Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (3) Req By (Pvt)

2161-FABR-1006 RESHARPEN TWIST DRILL BITS

CONDITION(S): Given bench grinder, tool bit, drill gage, safety equipment, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure bits are resharpened to specification and references.

PERFORMANCE STEPS:

1. Perform preventive maintenance check on bench grinder.

2. Resharpen drill bit to desired angle.

3. Check finished bit with gauge.

4. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. Machinist's handbook

2. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

3. TM 4700-15/1, Ground Equipment Record Procedures Manual

4. TC 9-524, Fundamental of Machine Tools and Operator’s Manual

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (3) Req By (Pvt)

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2161-ADMN-2001 IMPLEMENT MAINTENANCE MANAGEMENT TRAINING PROGRAM

CONDITION(S): Given the assignment for training, training materials, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure training is accomplished per requirements and references.

PERFORMANCE STEPS:

1. Implement maintenance management administrative training.

2. Schedule technical maintenance training.

REFERENCE(S):

1. Applicable equipment technical manuals

2. MCO P4790.2, MIMMS FIELD PROCEDURES MANUAL

3. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

4. Local Standard Operation Procedures (SOP)

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (Cpl)

2161-ADMN-2002 IMPLEMENT SUPPLY SUPPORT PROGRAM

CONDITION(S): Given supply forms and reports, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the program will be accomplished accurately per the references.

PERFORMANCE STEPS:

1. Prepare a supply request for submission to supply.

2. Conduct supply reconciliation.

REFERENCE(S):

1. MCO 4400.16, UNIFORM MATERIAL MOVEMENT ISSUE AND PRIORITY SYSTEM (UMMIPS)

2. MCO P4450.12, STORAGE AND HANDLING OF HAZARDOUS MATERIALS

3. MCO P4790.2, MIMMS FIELD PROCEDURES MANUAL

4. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

ADMINISTRATIVE INSTRUCTIONS: OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units. 3. Automated systems include CD-ROM, web based information and all applications of electronic media.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (6) Req By (Cpl)

2161-ADMN-1001 FOLLOW BASIC SHOP PROCEDURES

CONDITION(S): Given common tools, power tools, precision measuring tools, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To maintain assigned work area in the accomplishment of maintenance assignments per the references.

PERFORMANCE STEPS:

1. Organize tools and equipment within work area.

2. Follow instructions for care of tools.

3. Observe safety regulations.

4. Observe hazardous material regulations.

REFERENCE(S):

1. Material safety data sheets for hazardous materials

2. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication

3. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM

4. FM 9-243, USE AND CARE OF HAND TOOLS AND MEASURING TOOLS

5. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL

6. TM 10209-10/1, Use and Care of Hand and Measure Tools

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must; (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-ADMN-1002 FOLLOW BASIC MAINTENANCE PROCEDURES

CONDITION(S): Given equipment repair records and forms, automated systems with internet access, and the current authorized technical information.

STANDARD: To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Utilize required publications and directives.

2. Adhere to Modification Instructions.

3. Adhere to Calibration procedures.

4. Complete necessary maintenance management forms needed to document work.

REFERENCE(S):

1. MCO 4790.2 MIMMS FIELD PROCEDURES MANUAL

2. TM 4700-15/1 Ground Equipment Record Procedures Manual

3. UM 4790-5 MIMMS AIS Field Maintenance Procedures

4. UM 4400-124 FMF SASSY Using Unit Procedures

5. MCO P5215.17 The Marine Corps Technical Publications System

6. NAVMC 2761 Catalog of Publications

7. SL-1-2

8. SL-1-3

9. TI-4733-15/1 Calibration Requirements Marine Corps TMDE Calibration and Maintenance Program

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (Pvt)

2161-ADMN-1003 MAINTAIN MACHINE SHOP FUNCTIONAL AREAS

CONDITION(S): Given a Machine Shop, automated systems with internet access, and the current authorized technical information.

STANDARD: To ensure that the Functional Areas are maintained per the references.

PERFORMANCE STEPS:

1. Maintain Calibrations Control Program.

2. Maintain Tool Control Program.

3. Maintain Desktop Procedures.

4. Maintain Modification Control Program.

5. Maintain Preventive Maintenance Program.

6. Maintain Corrective Maintenance Program.

7. Maintain Quality Control Program.

8. Maintain Training Program.

9. Coordinate embarkation with units' embark personnel.

10. Maintain Operational Risk Management (ORM).

REFERENCES:

1. MCO 1510.65_

2. MCO P4790.2_

3. TM 4700-15/1_

4. MCO 4733.1_

5. MCO P4400.150_

6. TI 4733-15/1_

7. TI 4733-15/11_

8. TI 8000 Series

9. Applicable MI'

10. Current MARADMINs

11. Applicable Technical Information

12. MCO 4400.16_

13. UM 4790-5

ADMINISTRATIVE INSTRUCTIONS: None.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req by (Sgt)

2161-ADMN-1004 MAINTAIN MAINTENANCE TRANSACTION REPORTS

CONDITION(S): Given various records, reports, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure that all maintenance transactions reports are updated per the references.

PERFORMANCE STEPS:

1. Analyze DPR

2. Verify transactions on DTL

3. Verify exception reports

4. Verify LM2 report

5. Verify TAM report

6. Submit maintenance transactions

7. Conduct required reconciliation's

REFERENCES:

1. MCO 4400.16_

2. MCO P4790.2_

3. TM 4700-15/1_

4. UM automated systems with internet access, and the current authorized technical information.
4790-5

5. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (12) Req (Sgt)

2161-ADMN-1005 OPERATE COMPUTER NUMERICAL CONTROL (CNC) EQUIPMENT

CONDITION(S): Given a computer numerical control machine, automated systems with internet access, and the current authorized technical information.

STANDARD(S): To ensure the computer numerical control machine is ready to perform required machinist operations per the references.

PERFORMANCE STEPS:

1. Use Shop Math.

2. Perform manual programming of machine.

3. Perform Computer Aided Manufacturing operations.

4. Perform Machining operations.

5. Complete required maintenance and/or administrative forms and records when applicable.

REFERENCE(S):

1. TM 4700-15/1 Ground Equipment Record Procedures Manual

2. Machinist's handbook

3. Operator’s manual

4. OPNAV 4790.2, NAVAL AVIATION MAINTENANCE PROGRAM

5. TC 9-524, Fundamentals of Machine Tools

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to authorized echelon of maintenance.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req by (Sgt).

MOS 2171

ELECTRO-OPTICAL ORDNANCE REPAIRER

DUTY AREA 01 - BASIC ELECTRONICS

2171-ELEC-1001 FOLLOW BASIC SHOP PROCEDURES

CONDITION(S): Given common tools, power tools, precision measuring tools, and the references.

STANDARD(S): To maintain assigned work area in the accomplishment of maintenance assignments per the references.

PERFORMANCE STEPS:

1. Organize tools and equipment within work area.

2. Follow instructions for care of tools.

3. Observe safety regulations.

4. Observe hazardous material regulations.

REFERENCE(S):

1. Material safety data sheets for hazardous materials
2. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
3. DOD INST 6050.5_, DOD Hazard Communication Program
4. DOD INST 6055.11_, Protection of DOD Personnel from Exposure to Radiofrequency Radiation and Military Exempt Lasers
5. FM 9-243, Use and Care of Hand Tools and Measuring Tools
6. MCO P5090.2_, Environmental Compliance and Protection Manual
7. TM 10209-10/1, Use and Care of Hand and Measure Tools
8. TM 9-254, General Maintenance Procedures for Fire Control Materials
9. U.S. ARMY TB 43-0134, Battery Disposition and Disposal

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (LCpl)

2171-ELEC-1002 ANALYZE ELECTRONIC DEVICES/COMPONENTS

CONDITION(S): Given the reference.

STANDARD(S): To determine maintenance or repair requirements per the reference.

PERFORMANCE STEPS:

1. Locate equipment electronic devices.

2. Determine function of electronic devices.

3. Test electronic devices.

4. Identify maintenance or repair requirements.

REFERENCE(S):

1. FM 11-62, SOLID STATE DEVICES/SOLID STATE POWER SUPPLY

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

CURRENT MCI(S):

1. MCI 11.42, Solid-State Devices

2. MCI 28.6, Fundamentals of Digital Logic

3. MCI 28.20, Electronics Mathematics for Marines

4. MCI 13.34, Math for Marines

2171-ELEC-1003 ANALYZE ELECTRONIC CIRCUITS/COMPONENTS

CONDITION(S): Given the reference.

STANDARD(S): To determine maintenance or repair requirements per the reference.

PERFORMANCE STEPS:

1. Identify equipment electronic circuits.

2. Determine function of electronic circuits.

3. Test electronic circuits.

4. Identify maintenance or repair requirements.

REFERENCE(S):

1. FM 11-60, BASIC PRINCIPLES DIRECT CURRENT
2. FM 11-61, BASIC PRINCIPLES ALTERNATING CURRENT
3. FM 11-62, SOLID STATE DEVICES/SOLID STATE POWER SUPPLY
4. FM 11-72, COMMUNICATIONS-ELECTRONICS FUNDAMENTALS

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-ELEC-1004 FOLLOW BASIC MAINTENANCE PROCEDURES

CONDITION(S): Given equipment repair records and forms and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Utilize required publications and directives.

2. Adhere to Modification Instructions.

3. Adhere to Calibration procedures.

4. Complete necessary maintenance management forms needed to document work.

REFERENCE(S):

MCO 4790.2 MIMMS FIELD PROCEDURES MANUAL
TM 4700-15/1 Ground Equipment Record Procedures Manual
UM 4790-5 MIMMS AIS Field Maintenance Procedures
UM 4400-124 FMF SASSY Using Unit Procedures
MCO P5215.17 The Marine Corps Technical Publications System
NAVMC 2761 Catalog of Publications
SL-1-2
SL-1-3
TI-4733-15/1 Calibration Requirements Marine Corps TMDE Calibration and Maintenance Program

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (6) Req By (LCpl)

CURRENT MCI(S):

1. MCI 04.10, MIMMS-AIS (Maintenance Automated Information System)

DUTY AREA 02 – INTERMEDIATE MAINTENANCE

2171-INTM-1001 MAINTAIN AN/TAM-3B NIGHT SIGHT TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate AN/TAM-3B Night Sight Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-3-08121, Test Set, Night Vision Sight AN/TAM-3B
5. TM 9-5855-255-14, Night Vision Sight AN/TAM-3/3A/3B
6. TM 9-5855-255-24P, Night Vision Sight AN/TAM-3/3A/3B

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1002 MAINTAIN M220E4 TOW WEAPON SYSTEM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 9-1425-450-12, TOW Weapon System Guided Missile System
5. TM 9-1425-450-24P, Launcher, Tubular Guided Missile

6. TM 9-1425-450-34-1, TOW 2 Weapon System M220E4
7. TM 9-1425-450-34-2, TOW 2 Weapon System
8. TM 9-1425-450-L, (LOAP) F/TOW 2 Weapons System
9. TM 9-1425-451-34, TOW 2 Weapon System Checkout and Troubleshooting
10. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

Current MCI(S):

1. 03.55, The TOW2 Weapon System Crewman

2171-INTM-1003 MAINTAIN AN/TSM-140B TOW FIELD TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate AN/TSM-140B TOW Field Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-3-07723, Test Set, Guided Missile System AN/TSM-140B
5. TM 9-1425-451-34, TOW 2 Weapon System Checkout and Troubleshooting
6. TM 9-4935-452-14, Test Set GMS AN/TSM-140A or -140B
7. TM 9-4935-474-14-2-1, TOW 2 Subsystem Test Set

8. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness
9. TM-9999-15/2, Electrostatic Discharge (ESD) Management

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1004 MAINTAIN AN/TSM-152 MISSILE GUIDANCE SET TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate AN/TSM-152 Missile Guidance Set Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 9-1425-450-34-1, TOW 2 Weapon System M220E4
5. TM 9-4935-450-24P, Shop Equipment, GMS Contact Support Set
6. TM 9-4935-452-24P, Tow Field Test Set, TFTS Test Adapter
7. TM 9-4935-455-14, TOW 2 Heavy Antitank/Assault Weapons Systems

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who

may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1005 MAINTAIN TS-3784/TAS BORESIGHT COLLIMATOR TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate TS-3784/TAS Boresight Collimator Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 9-5855-286-14, Test Set, Boresight Collimator, TS-3784/TAS
5. TM 9-5855-286-24P, Test Set, Boresight Collimator, TS-3784/TAS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1006 MAINTAIN AN/TAM-5 AMPLIFIER TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate AN/TAM-5 Amplifier Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 9-4935-455-14, TOW 2 Heavy Antitank/Assault Weapons Systems
5. TM 9-4935-455-24P, AN/TAM-5 Amplifier Test Set

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1007 MAINTAIN AN/PAQ-3 MODULAR UNIVERSAL LASER EQUIPMENT (MULE)

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
4. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
5. TM 08579A-12/1, Operator and Organizational Maintenance Instruction for MULE
6. TM 08579A-24P/3A, Modular Universal Laser Equipment
7. TM 08579A-34/2A, AN/PAQ-3 (MULE) & Fault Isolation Test Set
8. TM 08911A-12/1, North Finding Module MX-18204/GSQ
9. TM 08911A-34&P/2, North Finding Module MX-18204/GSQ
10. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness
11. TM-9999-15/2, Electrostatic Discharge (ESD) Management
12. MCO 5104.1_

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1008 MAINTAIN AN/GVS-5 LASER INFRARED OBSERVATION SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
4. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
5. TM 11-5860-201-20, Laser Infrared Observation Set AN/GVS-5
6. TM 11-5860-201-30, Laser Infrared Observation Set AN/GVS-5
7. TM 11-5860-201-30P, Laser Infrared Observation Set AN/GVS-5
8. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness
9. TM-9999-15/2, Electrostatic Discharge (ESD) Management
10. MCO 5104.1_

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1009 MAINTAIN MODULAR UNIVERSAL LASER EQUIPMENT (MULE) INTERMEDIATE MAINTENANCE KIT

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate Intermediate Maintenance Kit.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
4. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
5. SL-3-08892A, Test Equipment Intermediate Maintenance Kit
6. TM 08579A-34/2A, AN/PAQ-3 (MULE) & Fault Isolation Test Set
7. TM 08579A-34P/4A, Intermediate Maintenance Kit, Modular Universal Laser Equipment (MULE)
8. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness
9. TM-9999-15/2, Electrostatic Discharge (ESD) Management

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1010 MAINTAIN PASSIVE NIGHT VISION EQUIPMENT

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 09500A-23&P/2, Night Vision Goggles AN/PVS-7B
5. TM 10271A-23&P/2, Monocular, Night Vision Device, AN/PVS-14

6. TM 11-5855-213-23P, Night Vision Sight AN/PVS-4
7. TM 11-5855-214-23&P, Night Vision Sight, Crew Serv AN/TVS-5
8. TM 11-5855-238-23&P, Night Vision Goggles AN/PVS-5
9. TM 11-5855-249-10, Viewer, Drivers Night Vision, AN/VVS-2
10. TM 11-5855-249-20, Viewer, Drivers Night Vision AN/VVS-2V1
11. TM 8F419B-35&P, M36E3 Periscope For UGWS
12. TM 9-1240-314-35P, Periscope, Tank: M36
13. TM-9999-15/1, Electrostatic Discharge (ESD) Awareness
14. TM-9999-15/2, Electrostatic Discharge (ESD) Management

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1011 MAINTAIN M1 SERIES GUNNERS QUADRANT

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. MCO 5104.3_, MARINE CORPS RADIATION SAFETY PROGRAM
3. TI-5104-15/2, Special Handling Considerations Tritium Fire Control

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1012 MAINTAIN M49 OBSERVATION TELESCOPE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. RS-00591A-50/1, Telescope, Observation M49 w/Equipment
5. TM 9-6650-212-12, Telescope Observation M49 w/Equipment
6. TM 9-6650-212-34P, Telescope Observation M49

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1013 MAINTAIN M2A2 AIMING CIRCLE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-3-00476C, Aiming Circle, M2A2 w/Equipment
5. TM 00476C-24&P, M2A2 Aiming Circle

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2001 MAINTAIN M3 BORESCOPE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-3-08552A, Borescope, M3 w/Equipment
5. TM 08552A-13&P, Maintenance Manual for Borescope M3

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2002 MAINTAIN M1A2 INFINITY AIMING REFERENCE COLLIMATOR

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Ensure that radioactive materials are handled according to installation's turn-in requirements and in accordance with applicable publications.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM

3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TI-5104-15/2, Special Handling Considerations Tritium Fire Control
5. TM 04914B-34&P, M1A1 Collimator, Infinity Aiming

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorize echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2003 MAINTAIN M64A1 SIGHT UNIT

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. MCO 5104.3
5. TM 1240-34&P, Telescope Mount, M64

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the

hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2004 MAINTAIN SHOULDER-LAUNCHED MULTIPURPOSE ASSAULT WEAPON (SMAW) TRIGGER ASSEMBLY

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 08673A-25&P/2A, Launcher, Assault Rocket 83mm (SMAW)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1014 MAINTAIN M198 HOWITZER FIRE CONTROL SYSTEM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. MCO 5104.3
5. TM 9-1025-211-20&P, Howitzer Med Towed 155mm M198
6. TM 9-1025-211-34, Howitzer Med Towed 155mm M198
7. TM 9-1240-375-34, Quadrant Fire Control M17/M18/M171/M172
8. TM 9-1240-375-34P, Quadrant Fire Control M17/M18 Telescope M171-72-37-38

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

Current MCI(S):

1. 08.20D, The M198, 155mm Towed Howitzer

2171-INTM-1015 MAINTAIN M1A1 TANK FIRE CONTROL SYSTEM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Ensure that radioactive materials are handled according to installation's turn-in requirements and in accordance with applicable publications.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. MCO 5104.3
5. TM 08953A-24/4-2, Tank, Combat, M1A1 (Turret)
6. TM 08953A-34/7-1, M1A1 Tank Fire Control
7. TM 08953A-34P/8, M1A1 Tank Sighting & Fire Control
8. TM 10262A-14&P/1, GPIA-LAV Electronic System Test Set
9. TM 10262A-14/2, GPIA-LAV Electronic System Test Set
10. TM 9-254, General Maintenance Procedures for Fire Control Materials
11. TM 9-258, Application-Fire Control Instruments
12. TM 9-4931-586-12-1&P, Test Set Electronic, AN/USM 615
13. TM 9-4931-586-12-2&P, Test Set Electronic, AN/USM 615
14. TM 9-4931-586-12-4&P, Test Set Electronic, AN/USM 615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

Current MCI(S):

1. 18.46, Tank Gunnery/Direct Fire Procedures(M1A1)

2171-INTM-1016 MAINTAIN DIRECT SUPPORT ELECTRONIC SYSTEM TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate Direct Support Electronic System Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 10262A-14&P/1, GPIA-LAV Electronic System Test Set
5. TM 9-4931-586-12-1&P, Test Set Electronic, AN/USM 615
6. TM 9-4931-586-12-2&P, Test Set Electronic, AN/USM 615
7. TM 9-4931-586-12-4&P, Test Set Electronic, AN/USM 615
8. TM 9-4931-586-30&P, Test Set Electronic, AN/USM 615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1017 MAINTAIN LIGHT ARMORED VEHICLE (LAV) SERIES FIRE CONTROL SYSTEM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and

records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-4-8H161B, Light Armored Vehicle (LAV) Thermal Sight System
5. TM 08594A-20/3A, Light Armored Vehicle(LAV)-25 Turret
6. TM 08594A-34/8, Light Armored Vehicle(LAV)-25 Turret
7. TM 08652A-34/5, Intermediate Maintenance, Light Armored Vehicle (LAV) AT Turret
8. TM 10262A-14&P/1, GPIA-LAV Electronic System Test Set
9. TM 10262A-14/2, GPIA-LAV Electronic System Test Set
10. TM 8H161B-20, Light Armored Vehicle (LAV) Thermal Sight System
11. TM 8H161B-34, Light Armored Vehicle (LAV) Thermal Sight System
12. TM 9-4931-586-12-1&P, Test Set Electronic, AN/USM 615
13. TM 9-4931-586-12-2&P, Test Set Electronic, AN/USM 615
14. TM 9-4931-586-12-4&P, Test Set Electronic, AN/USM 615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

Current MCI(S):

1. 03.41, LAV-25 Gunnery

2171-INTM-2005 MAINTAIN ASSAULT AMPHIBIOUS VEHICLE (AAV) SERIES FIRE CONTROL SYSTEM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.

4. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 10004A-25&P2, AAV Upgunned Weapon Station
5. TM 8F419B-35&P, M36E3 Periscope For UGWS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2006 MAINTAIN AN/VLQ-6 MISSILE COUNTERMEASURE DEVICE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 09842A-12/1, Countermeasure Set, AN/VLQ-6
5. TM 09842A-34/2, Countermeasure Set, AN/VLQ-6

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1018 MAINTAIN TS-3620/GVS-5 TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate TS-3620/GVS-5 Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 11-6625-2684-12, Test Set, Laser Infrared Observation Device
5. TM 11-6625-2684-20P, Test Set, Laser Infrared Observation Device
6. TM 11-6625-2684-30, Test Set, Laser Infrared Observation Device
7. TM 11-6625-2684-30P, Laser Infrared Observation Device TS-3620/GVS-5

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to

label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1019 MAINTAIN TS-4348/UV ELECTRONIC SYSTEMS TEST SET

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate TS-4348/UV Electronic Systems Test Set.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 11-5855-299-12&P, Test Set, Electronic System, TS-4348/UV

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1020 MAINTAIN CROSS-LEVELING FIXTURE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate Cross-Leveling Fixture.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. Applicable equipment technical manuals
2. SL-3-02220A, Fixture, Cross Leveling and Elevation
3. TM 9-254, General Maintenance Procedures for Fire Control Materials

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1021 MAINTAIN AZIMUTH TEST FIXTURE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate Azimuth Test Fixture.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and

records.

REFERENCE(S):

1. Applicable equipment technical manuals
2. Installation-specific used rag turn-in requirements
3. Material safety data sheets for hazardous materials
4. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
5. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
6. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
7. SL-3-02194A, Fixture, Azimuth Testing w/Equipment
8. TM 9-254, General Maintenance Procedures for Fire Control Materials

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-2006 MAINTAIN STRAIGHT TUBE TELESCOPE FIXTURE

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate Straight Tube Telescope Fixture.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. Applicable equipment technical manuals
2. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication

3. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
4. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
5. TM 9-254, General Maintenance Procedures for Fire Control Materials

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1022 MAINTAIN PP-8333/U BATTERY ANALYZER-CHARGER (CRISTIE)

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Operate PP-8333/U Battery Charger.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 09591A-12/1, CASP/2000H(M) Cristie Electronics
5. TM 09591A-34/2, CASP/2000H(M) Cristie Electronics

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the

hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

2171-INTM-1023 MAINTAIN THERMAL SIGHTS

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Perform required corrective maintenance.

3. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. TM 09688A-24&P, Receiver Infrared, AN/PAS-18
5. Unit Table of Equipment (T/E)
6. Unit Table of Organization (T/O)
7. MCBUL 3000, TABLE OF MARES LOGISTICS REPORTABLE EQUIPMENT
8. MCO 3000.11_, MARINE CORPS GROUND EQUIPMENT RESOURCE REPORTING (MCGERR)
9. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
10. Unit Table of Equipment (T/E)
11. MCO P4400.150_, CONSUMER LEVEL SUPPLY POLICY MANUAL
12. MCO P4400.82_, MUMMS CONTROLLED ITEMS MANAGEMENT MANUAL
13. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
14. MCO P7100.8_, FIELD BUDGET GUIDANCE MANUAL
15. TM 4700-15/1, Ground Equipment Record Procedures Manual
16. UM 4400-124, FMF SASSY Using Unit Procedures
17. UM 4790-5, MIMMS AIS Field Maintenance Procedures
18. UM-4400-15, Organic Property Control Procedures
19. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
20. TM 4700-15/1, Ground Equipment Record Procedures Manual
21. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. Thermal Sights include AN/PAS-13_, AN/PAS-18, AN/TAS-4_, and the associated equipment.

3. Thermal sights for the M1A1 Abrams Tank are covered in 2171.02.32. Refer to this task for performance steps and references.

4. Thermal sights for the LAV series are covered in 2171.02.34

5. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req By (LCpl)

2171-INTM-1024 MAINTAIN ELECTRO-OPTICAL EQUIPMENT MAINTENANCE SHELTER

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:

1. Set up maintenance shelter.

2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components.

4. Perform required corrective maintenance.

5. Complete applicable maintenance and/or administrative forms and records.

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
4. SL-3-08194, TOW Weapons System Maintenance Shelter
5. SL-3-08485, Night Sight Maintenance Facility/TAM-6(V)-3
6. SL-3-09129A, ShopSet, Equipment, Electro-Optics Field Maintenance 3rd and 4th Echelon
7. TM 9-4935-454-24P, Night Sight Maintenance Facility, AN/TAM-6
8. TM 9-4935-472-14-1, Improved Contact Support Set and Night Sight Maintenance Facility

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of

maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req By (LCpl)

Current MCI(S):

1. 11.41, Marine Electrician

2171-INTM-2007 MAINTAIN THE M21 REMOTE SENSING CHEMICAL AGENT AUTOMATIC ALARM

CONDITION(S): Given required equipment and the references.

STANDARD(S): To validate equipment serviceability and completion of maintenance inspections and procedures per the reference.

PERFORMANCE STEPS:

1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance

REFERENCE(S):

1. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
3. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
4. MCO 5104.1_, MARINE CORPS LASER HAZARD CONTROL PROGRAM
5. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
6. TM 09870A-10/1, Operation Instructions for the Remote Sensing Chemical Agent Automatic Alarm Model M21
7. TM 09870A-23&P/2, Maintenance Instructions for the Remote Sensing Chemical Agent Automatic Alarm Model M21

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to

label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (24) Req By (LCpl)

DUTY AREA 03 - ADMINISTRATIVE FUNCTIONS

2171-ADMN-2001 MAINTAIN GROUND ORDNANCE MAINTENANCE RELATED PROGRAMS

CONDITION(S): Given equipment resources and the reference.

STANDARD(S): To ensure optimum mission support and use of resources per the reference.

PERFORMANCE STEPS:

1. Provide input to Local policies and procedures. (LPP)

2. Coordinate use of maintenance resources.

3. Coordinate ground ordnance equipment availability.

4. Coordinate ground ordnance supply support program.

5. Maintain ground ordnance maintenance management functions.

REFERENCE(S):

1. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
2. TM 4700-15/1, Ground Equipment Record Procedures Manual
3. UM 4790-5, MIMMS AIS Field Maintenance Procedures
4. Unit Table of Equipment (T/E)
5. Unit Table of Organization (T/O)
6. MCBUL 3000, TABLE OF MARES LOGISTICS REPORTABLE EQUIPMENT
7. MCO 3000.11_, MARINE CORPS GROUND EQUIPMENT RESOURCE REPORTING (MCGERR)
8. MCO P4400.150_, CONSUMER LEVEL SUPPLY POLICY MANUAL
9. MCO P4400.82_, MUMMS CONTROLLED ITEMS MANAGEMENT MANUAL
10. MCO P7100.8_, FIELD BUDGET GUIDANCE MANUAL
11. UM 4400-124, FMF SASSY Using Unit Procedures
12. UM-4400-15, Organic Property Control Procedures

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (Sgt)

CURRENT MCI(S):

1. MCI 04.14, Ground Maintenance Management Procedures for Supervisors

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2171-ADMN-2002 MAINTAIN ELECTRO-OPTICAL ORDNANCE TRAINING PROGRAM

CONDITION(S): Given a unit annual training plan and the references.

STANDARD(S): To provide appropriate training progression for subordinates per the references.

PERFORMANCE STEPS:

1. Identify individual training requirements.

2. Plan electro-optical equipment operator and maintenance training program.

3. Conduct MOS training.

REFERENCE(S):

1. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
2. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
3. MCO 1510.34_, INDIVIDUAL TRAINING STANDARDS SYSTEM (ITSS)
4. MCO 3501.7_, MARINE CORPS COMBAT READINESS EVALUATION SYSTEM (MCCRES); VOLUME VI COMBAT SERVICE SUPPORT UNITS
5. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
6. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
7. MCO 1510.66_

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: FLC (Standard) Sustainment (12) Req By (Sgt)

2171-ADMN-2003 MAINTAIN GROUND ORDNANCE MAINTENANCE-RELATED PROGRAMS

CONDITION(S): Given electro-optical equipment and the references.

STANDARD(S): To ensure associated program information and records are maintained per the references.

PERFORMANCE STEPS:

1. Determine requirements for maintenance-related programs.

2. Maintain shop modification control program.

3. Maintain shop calibration control program.

4. Maintain new equipment warranty program.

5. Maintain ground ordnance equipment maintenance records and forms.

6. Coordinate repair and return (R&R) program.

7. Submit product quality deficiency reports (PQDR) as required.

8. Submit items for WIR as required.

9. Maintain shop quality control program.

10. Maintain shop publications library.

11. Maintain shop ground ordnance preventive maintenance (PM) program.

12. Maintain shop ground ordnance corrective maintenance (CM) Program.

13. Prepare Ground ordnance equipment for embarkation.

14. Maintain shop support equipment and tool control program.

15. Maintain Corrosion Prevention and Control (CPAC) program.

REFERENCE(S):

1. APPLICABLE ELECTRO-OPTICAL EQUIPMENT MATERIAL FIELDING PLANS (MFPS)
2. APPLICABLE EQUIPMENT TECHNICAL MANUALS
3. APPLICABLE STOCK LISTS
4. MI STANDARDS FILE (MICROFICHE)
5. UNIT TABLE OF EQUIPMENT (T/E)
6. UNIT TABLE OF ORGANIZATION (T/O)
7. MCO 4105.2_, MARINE CORPS WARRANTY PROGRAM
8. MCO 4733.1_, MARINE CORPS TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE) CALIBRATION AND MAINTENANCE PROGRAM (CAMP)
9. MCO 4855.10_, PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
10. MCO P4400.82_, MUMMS CONTROLLED ITEMS MANAGEMENT MANUAL
11. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL
12. MCO P5215.17_, USMC TECHNICAL PUBLICATIONS MANUAL
13. P5600.31_, MARINE CORPS PUBLICATIONS AND PRINTING REGULATIONS
14. TI-4710-14/1, RECOVERY AND EVACUATION CRITERIA, USMC
15. TI-4733-15/1, CALIBRATION REQUIREMENTS USMC TMDE CAMP
16. NAVMC 2761, CATALOG OF PUBLICATIONS
17. UM-PLMS, PUBLICATIONS LIBRARY MANAGEMENT SYSTEM
18. MC (ML), (MICROFICHE)
19. APPLICABLE EQUIPMENT TECHNICAL MANUALS
20. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
21. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
22. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (Sgt)

CURRENT MCI(S):

1. MCI 04.14, Ground Maintenance Management Procedures for Supervisors

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2171-ADMN-2004 MAINTAIN GROUND ORDNANCE REPAIR AREA

CONDITION(S): Given an order specifying location to be used, list of Table of Equipment (T/E), list of Material Handling Equipment (MHE), roster of repair section personnel, and the reference.

STANDARD(S): To establish and maintain separate areas for work, storage, supply, and hazardous materials per the reference.

PERFORMANCE STEPS:

1. Designate shipping and receiving area(s).

2. Designate work area.

3. Designate location of shop office.

4. Designate location of technical library.

5. Designate location of tool storage area.

6. Designate locations of repair jobs, layettes, pre-expend bin, and storage areas for equipment and parts.

REFERENCE(S):

1. MCO P4790.2_, MIMMS FIELD PROCEDURES MANUAL

INITIAL TRAINING SETTING: MOJT (Standard) Sustainment (12) Req By (Sgt)

2171-ADMN-2005 MAINTAIN COMPLIANCE WITH SECURITY REGULATIONS

CONDITION(S): Given a designated area, controlled/classified equipment or materials for storage, and the references.

STANDARD(S): To ensure classified or controlled materials or equipment are properly secured per the references.

PERFORMANCE STEPS:

1. Maintain physical security of classified information, publications, or records.

2. Maintain physical security of arms, and Ammunition, and Explosives (AA&E), and security assets.

REFERENCE(S):

1. Local policies and procedures (LPP)
2. MCO 4340.1_, REPORTING MISSING, LOST, STOLEN, OR RECOVERED (MLSR) GOVERNMENT PROPER
3. MCO 5500.6_, ARMING OF SECURITY AND LAW ENFORCEMENT (LE) PERSONNEL AND THE USE OF FORCE
4. OPNAVINST 5530.13_, PHYSICAL SECURITY OF AA&E
5. OPNAVINST 5530.14_, PHYSICAL SECURITY AND LOSS PREVENTION
6. MCO 5530.14_

INITIAL TRAINING SETTING: FLC (Standard) Sustainment (12) Req By (Sgt)

Current MCI(S):

1. 21.24, Armory Procedures

2171-ADMN-2006 MAINTAIN GROUND ORDNANCE SAFETY PROGRAM

CONDITION(S): Given the references.

STANDARD(S): To ensure a safe maintenance environment through routine training and inspections in accordance with the references.

PERFORMANCE STEPS:

1. Identify safety requirements.

2. Inspect maintenance facility for safety-related problems.

3. Assign Safety Noncommissioned Officer (NCO).

4. Conduct safety training.

5. Document training.

6. Conduct internal reviews.

7. Comply with laser safety program.

8. Comply with radiation safety program.

9. Comply with hazardous material/waste program.

REFERENCE(S):

1. Local Polices and Procedures (LLP)
2. Unit Safety Standing Operating Procedures (SOP)
3. 29 CFR 1910.1200, Occupational Safety and Health Standards, Hazard Communication
4. DOD INST 6050.5_, DOD HAZARD COMMUNICATION PROGRAM
5. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
6. DOD INST 6055.8_, OCCUPATIONAL RADIATION PROTECTION PROGRAM
7. MCO 5100.29_, MARINE CORPS SAFETY PROGRAM
8. MCO 5100.8_, MARINE CORPS GROUND OCCUPATIONAL SAFETY AND HEALTH (OSH) PROGRAM
9. MCO 5104.2_, MARINE CORPS RADIOFREQUENCY ELECTROMAGNETIC FIELD PERSONNEL PROTECTION PROGRAM
10. MCO 5104.3_, MARINE CORPS RADIATION SAFETY PROGRAM
11. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
12. MCO P5102.1_, MARINE CORPS GROUND MISHAP REPORTING
13. OPNAVINST 5100.19_, VOLUME III, OCCUPATIONAL SAFETY AND HEALTH
14. OPNAVINST 5100.23_, NAVY OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) MANUAL
15. DOD INST 6055.11_, PROTECTION OF DOD PERSONNEL FROM EXPOSURE TO RADIOFREQUENCY RADIATION AND MILITARY EXEMPT LASERS
16. MCO 5104.3_, MARINE CORPS RADIATION SAFETY PROGRAM
17. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
18. TB MED 524, Control of Hazards to Health from Laser Radiation
19. DOD INST 6055.8_, OCCUPATIONAL RADIATION PROTECTION PROGRAM
20. MCO 5104.2_, MARINE CORPS RADIOFREQUENCY ELECTROMAGNETIC FIELD

PERSONNEL PROTECTION PROGRAM

21. MCO 5104.3_, MARINE CORPS RADIATION SAFETY PROGRAM
22. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
23. TI-5104-15/1A, Procedural Publications Index USMC RASP
24. TI-5104-15/2, Special Handling Considerations Tritium Fire Control
25. MCO P5090.2_, ENVIRONMENTAL COMPLIANCE AND PROTECTION MANUAL
26. TM 9-254, General Maintenance Procedures for Fire Control Materials

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

INITIAL TRAINING SETTING: FLC (Standard) Sustainment (12) Req By (Sgt)

MOS 2181

GROUND ORDNANCE WEAPONS CHIEF/SENIOR GROOUND ORDNANCE WEAPONS CHIEF

DUTY AREA 01 - ADMINISTRATIVE FUNCTIONS

2181-ADMN-2001 ESTABLISH MAINTENANCE MANAGEMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that mission requirements are completed per the references.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. Analyze capabilities.
3. Determine resource requirements.
4. Analyze external requirements.
5. Develop procedures to comply with functional areas of maintenance management.
6. Implement maintenance management programs.
7. Supervise maintenance management programs.

REFERENCES:

1. MCO P4400.150_
2. MCO P4790.2_
3. MCO P1200.7_
4. Local Policies and Procedures
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2002 SUPERVISE GROUND ORDNANCE MAINTENANCE RESOURCES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, personnel, maintenance facilities and a budget.

STANDARD: To ensure that mission requirements and equipment readiness are maintained per the references.

PERFORMANCE STEPS:

1. Identify available resources.
2. Consolidate time into usable blocks.
3. Assist the Maintenance Officer/MMO in conducting T/O&E reviews.

4. Identify personnel strengths and weaknesses to match them against mission requirements.
5. Ensure that repair parts and maintenance related supplies are requisitioned when required.
6. Ensure accountability of repair parts and maintenance related supplies.
7. Identify all tools, chests, sets and TMDE equipment are on hand to support mission requirements.
8. Identify facilities required to support the mission.
9. Identify publication requirements to support the mission.
10. Identify funding requirements to support the mission.

REFERENCES:

1. MCO P5600.31
2. MCO P4790.2_
3. MCWP 4-11
4. MCDP-4
5. TM 4700-15/1_
6. MCO P4400.150_
7. MCO 4733.1_
8. MCO P5215.1_
9. MCO P5215.17_
10. MCO 4710.8
11. Table of Organization & Equipment (T/O&E)
12. Local Policies and Procedures

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2003 SUPERVISE PUBLICATIONS AND DIRECTIVES IN SUPPORT OF GROUND ORDNANCE EQUIPMENT PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that maintenance libraries and mission requirements are maintained per the references.

PERFORMANCE STEPS:

1. Determine publication requirements.
2. Register requirements.
3. Establish control procedures.
4. Maintain the publication control system.
5. Conduct internal reviews.

REFERENCES:

1. Table of Organization & Equipment (T/O&E)
2. MCO P5215.1_
3. SL 1-2/3
4. UM-MCPDS
5. Local Policies and Procedures

6. UM-PLMS
7. MCO 5600.31
8. MCO P5215.17
9. MCO P4790.2_
10. Special allowance list

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2004 MANAGE GROUND ORDNANCE MAINTENANCE MOS TRAINING PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and personnel records.

STANDARD: To ensure that maintenance MOS training is conducted per the references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Identify training resources.
3. Establish the MOS training sustainment matrix.
4. Schedule annual MOS training.
5. Develop lesson plans.
6. Conduct training.
7. Document training.
8. Conduct internal reviews of training plan.

REFERENCES:

1. MCO 1510 Series
2. MCO P4790.2_
3. MCO 1553.3
4. MCRP 3-OA
5. MCRP 3-OB
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2005 SUPERVISE SUPPORT EQUIPMENT PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment is utilized per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify requirements.
2. Establish control procedures.
3. Supervise tool control procedures.
4. Supervise calibration procedures.
5. Supervise preventive maintenance for support equipment.
6. Supervise corrective maintenance for support equipment.
7. Conduct internal reviews.

REFERENCES:

1. MCO P4790.2_
2. TM 4700-15/1_
3. MCO 4733.1_
4. MCO P4400.150_
5. TI 4733-15/1_
6. TI 4733-15/11_
7. Current MARADMINs
8. Applicable Technical Information
9. Table of Organization & Equipment (T/O&E)
10. Special Allowance List

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibrations equipment). Automated systems include CD-ROM and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2006 SUPERVISE SUPPLY SUPPORT PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that supply support programs are employed per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify supply requirements.
2. Supervise the accountability for all repair parts.
3. Supervise validation procedures.
4. Supervise reconciliation procedures.
5. Conduct internal reviews.

REFERENCES:

1. MCO P4400.82
2. MCO P4790.2_
3. TM 4700-15/1_
4. MCO 8300.1
5. MCO 4340.1
6. MCO P4400.150_

7. UM 4400-124
8. Table Of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2007 SUPERVISE GROUND ORDNANCE MAINTENANCE FACILITIES

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, and facilities.

STANDARD: To ensure that maintenance facilities are utilized per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify facility requirements.
2. Develop maintenance flow plan.
3. Organize facilities to support mission.
4. Evaluate Operational Risk Management (ORM).
5. Maintain facilities.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. Applicable Technical Information
4. MCO P11262.2
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2008 SUPERVISE MAINTENANCE PRODUCTION SCHEDULES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD: To ensure that maintenance production is accomplished per the mission requirements available resources and references.

PERFORMANCE STEPS:

1. Determine available resources.
2. Evaluate workload.
3. Consolidate time into usable blocks.
4. Determine production capability.
5. Prioritize workload.

6. Assign work.
7. Ensure quality control procedures.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. Local Policies and Procedures
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2009 SUPERVISE MAINTENANCE RELATED PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that maintenance related programs are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. Supervise Product Quality Deficiency Report (PQDR) program.
3. Supervise Corrosion Prevention and Control (CPAC) program.
4. Supervise a Quality Control (QC) program.
5. Supervise unit level execution of Depot Level Maintenance programs.
6. Supervise execution of Contract Logistic Support (CLS).
7. Supervise execution of equipment warranties.
8. Supervise demilitarization procedures.
9. Supervise Military Awards/Incentives Program.

REFERENCES:

1. MCO P4790.2_
2. MCO 4733.1_
3. MCO 4855.10_
4. MCO P4790.1_
5. MCO 4105.2_
6. MCO 1650.17_
7. MCO P4790.3_
8. MCO 3000.11C
9. MCO 4790.18
10. MCO 8300.1
11. TM 4795-12
12. TM 4795-34
13. TM 4750-15/1
14. DOD 4160.21-M-1
15. Applicable Unit Logistics Support Summary (ULSS)
16. Applicable Technical Information

17. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2010 SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that preventive maintenance checks and services are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify PMCS requirements.
2. Identify cyclic maintenance requirements.
3. Identify special maintenance requirements.
4. Identify deferred maintenance requirements.
5. Develop PMCS schedule.
6. Supervise documentation of PMCS program.
7. Supervise Quality Control (QC) procedures for PMCS program.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Technical Information
5. Local Policies and Procedures
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2011 SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify corrective maintenance requirements.
2. Supervise the prioritization of corrective maintenance requirements.

3. Ensure all applicable maintenance procedures are followed.
4. Ensure all applicable reporting procedures are followed.
5. Monitor progress of corrective maintenance.
6. Ensure quality control procedures are followed.
7. Maintain liaison with external maintenance activities.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Technical Information
5. Applicable Unit Logistics Support Summary (ULSS)
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2012 SUPERVISE MODIFICATION PROGRAMS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify equipment modification requirements.
2. Verify equipment configurations.
3. Supervise modifications.
4. Supervise documentation of modifications.

REFERENCES:

1. MCO P4790.1_
2. MCO P4790.2_
3. TM 4700-15/1_
4. Applicable Modification Instructions (MI’s)
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2013 MONITOR ENVIRONMENTAL COMPLIANCE FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine environmental compliance requirements.
2. Monitor unit environmental compliance with unit representative.
3. Implement corrective actions.

REFERENCES:

1. 29 CFR 1910.12000_
2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.150_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of environmental compliance should include but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2014 SUPERVISE SHOP SAFETY PROGRAM FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine safety program requirements.
2. Monitor compliance with shop safety procedures.
3. Implement corrective actions.

REFERENCES:

1. 29 CFR 1910.12000_

2. MCO 5100.29
3. MCO P4790.2_
4. MCO P5090.2_
5. MCO 5100.8_
6. MCO 5104.3_
7. MCO P4400.105_
8. MCO 4450.12
9. TB MED 524_
10. NAVSEATM 50420-AA-RAD-010
11. Current ALMARs
12. Current MARADMINs
13. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygeine. 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2015 SUPERVISE EMBARKATION OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine embarkation requirements.
2. Ensure that requirements are documented.
3. Supervise coordination with embarkation personnel.
4. Supervise the preparation of equipment for embark.

REFERENCES:

1. MSE/Unit embarkation
2. Table of Organization & Equipment (T/O&E)
3. MCWP 4-1
4. NAVMC 2706
5. MCO 4030.16_
6. MCO 4030.19_
7. MCO 4030.25_
8. MCO 4030.33_
9. MCO 4030.36_
10. MCO 4110.2
11. MCO 4400.16_
12. MCO P4400.150_
13. MCO P4600.14_
14. MCO P4600.19_
15. MCO 4600.25_

16. MCO 4600.30_
17. MCO 4610.15_
18. MCO P4610.19_

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2016 SUPERVISE MAINTENANCE SHOP INFORMATION REQUIREMENTS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify maintenance information requirements.
2. Identify required output reports.
3. Supervise completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Recommend corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:

1. MCO P4790.2_
2. Current MARADMINs
3. Applicable Technical Information
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+), and Defense Messaging System (DMS). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2017 PREPARE ROUTINE CORRESPONDENCE, MESSAGES AND REPORTS FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, and the information required to publish.

STANDARD: To ensure correspondence, messages and reports are completed per the mission requirements and references.

PERFORMANCE STEPS:

1. Draft correspondence as required.
2. Draft messages as required.
3. Draft reports as required.
4. Supervise maintenance of files.

REFERENCES:

1. SECNAVINST 5216.5_
2. Local Policies and Procedures
3. MCO P1070.12
4. MCWP 3-1
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2018 COORDINATE LOAD TEST PROCEDURES FOR GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment and equipment records.

STANDARD: To ensure that load testing is conducted, certified, and maintained per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify load testing requirements.
2. Establish a load test certification schedule.
3. Assist certifying authority.
4. Supervise completion of administrative functions.

REFERENCES:

1. MCO P11240.106_
2. MCO P11262.2_
3. NAVFAC P307_
4. Applicable Technical Information
5. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2019 SUPERVISE PHYSICAL SECURITY OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD: To ensure that ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify security requirements.
2. Review security procedures.
3. Evaluate security compliance of ordnance storage facilities.
4. Assist in Arms, Ammunition & Explosives (AA&E) screenings.
5. Ensure personnel are security trained.
6. Ensure accountability of AA&E.

REFERENCES:

1. MCO P5530.14
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 4340.1_
7. MCO 8300.1_
8. Current ALMARs
9. Current MARADMINs
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2020 ASSIST IN THE FIELDING OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Monitor completion of administrative functions.

REFERENCES:

1. MCO P4790.2_
2. Applicable Technical Information

3. Applicable Unit Logistics Support Summary (ULSS)
4. MCO 4420.15_
5. MCO 8300.1_
6. MCO 4400.82_
7. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-ADMN-2021 IDENTIFY THE PHASES IN THE ACQUISITION PROCESS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that the equipment fielding is supported and accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify lifecycle milestones in the acquisition process.
2. Identify types of acquisition.

REFERENCES:

4. TM 4420-15/1
5. MCO 4105 Series
6. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Preliminary) Sustainment (24) Req by (MSgt)

2181-ADMN-2022 SUPERVISE PHYSICAL SECURITY OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD: To ensure that ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:

1. Identify security requirements.
7. Review security procedures.
8. Evaluate security compliance of ordnance storage facilities.
9. Assist in Arms, Ammunition & Explosives (AA&E) screenings.
10. Ensure personnel are security trained.
11. Ensure accountability of AA&E.

REFERENCES:

1. MCO P5530.14
9. OPNAVINST 5530.13_
10. OPNAVINST 5530.14_
11. MCO 5500.6_
12. MCO P4400.150_
13. MCO 4340.1_
14. MCO 8300.1_
15. Current ALMARs
16. Current MARADMINs
10. Applicable Technical Information
11. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

DUTY AREA 2 TECHNICAL FUNCTIONS

2181-TECH-2001 MONITOR UNIT ARMS, AMMUNITION, & EXPLOSIVES (AA&E) PROGRAMS

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD: To ensure that security procedures for safeguarding ground ordnance equipment per the mission requirements and references.

PERFORMANCE STEPS:

1. Determine security requirements for ordnance equipment on-hand, to include Arms, Ammunition and Explosives assets.
2. Validate the established security procedures.
3. Coordinate with local PMO, to evaluate the facility for compliance with physical security standards.
4. Ensure security personnel are trained in AA&E procedures.

REFERENCES:

1. MCO P5530.14
2. OPNAVINST 5530.13_
3. OPNAVINST 5530.14_
4. MCO 5500.6_
5. MCO P4400.150_
6. MCO 8300.1_
7. MCO 4340.1_
8. Current ALMARs
9. Current MARADMINs
10. Applicable Technical Information
11. Local Policies and Procedures
12. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

2181-TECH-2002 PROVIDE TECHNICAL SUPERVISION FOR THE REPAIR OF GROUND ORDNANCE EQUIPMENT

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records and maintenance facilities.

STANDARD: To ensure that maintenance of ordnance equipment is accomplished per the mission requirements and references.

PERFORMANCE STEPS:

1. Anticipate requirements.
2. Identify deficiencies.
3. Identify maintenance solutions.
4. Supervise maintenance.
5. Supervise maintenance personnel.
6. Ensure safety of personnel.
7. Supervise completion of administrative functions.

REFERENCES:

1. MCO 4790.2_
2. Applicable Technical Information
3. TM 4700.15/1_
4. Table of Organization & Equipment (T/O&E)

ADMINISTRATIVE INSTRUCTIONS: This task includes ground ordnance weapons, artillery and electro-optical equipment and the Universal Needs Statement (UNS). 3. Automated systems include CD-ROM, and web based information.

INITIAL TRAINING SETTING: Formal School (Standard) Sustainment (24) Req by (MSgt)

INDEX OF ACROYNMS

ADMN	Administrative Functions
ATF	Amphibious Task Force
CSSO	Combat Service Support Operations
EEAP	Enhanced Equipment Allowance Pool
FABR	Fabrication
INTM	Intermediate Maintenance
MPF	Maritime Propositioned Forces
NALMEB	Norway Air-Landed Marine Expeditionary Brigade
OPRM	Operator Maintenance
ORGM	Organizational Maintenance
PMCS	Preventive Maintenance
SEC	Security
TECH	Technical Functions