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HEADQUARTERS UNITED STATES MARINE CORPS
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MARINE CORPS ORDER P3500.53

From: Commandant of the Marine Corps
To: Distribution List

Subj: AVIATION TRAINING AND READINESS (T&R) MANUAL, TACTICAL AIR COMMAND CENTER (SHORT TITLE: T&R MANUAL, TACC)

Ref: (a) MCO P3500.14H
(b) MCO 5215.1H

Encl: (1) LOCATOR SHEET

1. Purpose. To publish policies, procedures and standards regarding the training of TACC personnel per reference (a).

2. Cancellation. MCO P3500.19B, Aviation Training and Readiness Manual Volume 5, chapters 1, 2 and 3.

3. Background. Reference (a) restructures the T&R manual organization from nine volumes to 25 individual Marine Corps orders and prescribes a unique template to provide the commander with standardized programs of instruction. As such, this order deviates from the five paragraph order format outlined in reference (b).

4. Recommendations. Recommended changes to this order are invited and may be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General, Training and Education Command (C 4610), Marine Corps Combat Development Command, 3300 Russell Road, Quantico, VA 22134-5001.

5. Applicability. This manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.

J. N. MATTIS
By direction

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RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person Incorporated Change

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2	TACTICAL AIR COMMAND CENTER ENLISTED OPERATOR (MOS 7234, 7242, 7236)
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CHAPTER 1

TACTICAL AIR COMMAND CENTER OFFICER (TACCO)
(MOS 7202, 7204, 7208, 7210, 7220)

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CHAPTER 1

TACTICAL AIR COMMAND CENTER OFFICER (TACCO)
(MOS 7202, 7204, 7208, 7210, 7220)

100. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop unit warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective T&R program is the first step in providing the Marine Air Ground Task Force (MAGTF) commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. By using these tools unit-training managers can construct and execute an effective training plan, which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training (SAT) to satisfy the training requirements of commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance understanding of the SAT used in T&R development and Marine Corps UTM principles.

3. The Unit T&R and the Individual T&R programs are inextricably linked. The events contained within the Individual T&R syllabus provide the basis of individual and collective skills that enable units to satisfy the requirements in the Unit T&R.

101. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills that support the Mission Essential Tasks (MET) derived from MCWP 3-2 and T/O mission statements, which are realistically expected to be assigned in combat.

2. Mission. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. Mission Essential Tasks List (METL)

a. Develop, disseminate and manage the execution of the Marine component Air Tasking Order (ATO).

b. Produce and disseminate aviation tailored, all source intelligence and CI required for decision-making during the planning and execution of air operations.

c. Maintain and disseminate information on the friendly situation, including the aviation and ground combat information essential to the air effort.

d. Plan and coordinate the employment of ACE communications electronics information networks and means.

e. Plan, coordinate and manage employment of all aircraft and surface-to-air weapons, agencies and sensors within, or in support of, the assigned area of operations.

f. Establish and disseminate air defense warning conditions, weapons control status and states of alert to all major elements of the MAGTF/joint/combined force.

g. Plan and coordinate air operations between the Marine Air Command and Control (MACCS) and command and control agencies external to the MAGTF, to include joint/combined/host nation agencies.

h. Develop and promulgate Air Operations Plans and Orders.

i. Plan and supervise airspace coordination.

j. Analyze and evaluate the results of air operations.

k. Provide pertinent emission control information within the area of operations.

l. Coordinate information flow to facilitate efficient planning and execution of aviation operations.

m. Support expeditionary operations.

n. Conduct TACC operations in an NBC environment.

o. Plan, coordinate, and direct personnel recovery operations as the Marine component Rescue Coordination Center.

4. TACC Core Capabilities

a. Current Operations Section (COS). A core capable TACC COS is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and combat information processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform those functions during contingency/combat operations, assuming all crew positions are manned and supporting MOSs are at 80%. Sufficient Tactical Data Information Link (TADIL), voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions

are not filled, those critical functions performed at the vacant position(s) will be degraded. The notional COS core capable crew of the baseline TACC consists of 60 personnel as depicted in table 1-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 1-1.--Notional Current Operations Section.

Current Ops Sect	Ground Watch Sect	Intel Watch Sect	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Sect	C2 Systems Watch Sect	Interface Coord/ TDC Cell
Current Ops Off	Ground Watch Off	Intel Watch Off	Senior Watch Off	Close Battle Coord	Deep Air Ops Mgr	Air Def Coord	Airspace Control Off (2)	Close Battle Analyst (3)	SAR Coord Off (2)	Comm Watch Off	C2 Sys Watch Off	Interface Coord Off
Asst. Current Ops Off	Fire Spt Off	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	RCDR	RCDR/ PLTR	Deep Battle Analyst (3)	RCDR	C2 Maint Coord	Radio Watch NCO	Track Data Coord
Ops Chief	Engr Off	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	PLTR		RCDR/ TBMCS Oper (2)		Logistics Watch Off	Data/ Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	RCDR	UAV Tasker	RCDR					NBC Watch Off	Wire-man	
	IOS Oper			RCDR (2)	PLTR					Force Protection Watch Off	Radio Oper	
	AFATDS Oper			PLTR (2)						ALD/ORD Watch Off		

b. Future Operations Section (FOS). A core capable TACC FOS plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed at the vacant position(s) will be degraded. The notional FOS core capable crew of the baseline TACC consists of 44 personnel as depicted in table 1-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 1-2.--Notional Future Operations Section.

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. Future Plans Section. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed at the vacant position(s) will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 1-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 1-3.--Notional Future Plans Section.

OPS ADMIN SECTION	GROUND WATCH SECTION	ORDERS DEVELOPMENT SECTION	ATO DEVELOPMENT SECTION	INTELLIGENCE WATCH SECTION
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. Billet-Syllabus Qualification Matrix. Tables 1-4 and 1-5 contain a billet-syllabus qualification matrix for the COS and FOS.

Table 1-4.--TACC Current Operations Section
Billet Syllabus Qualification Matrix.

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Current Operations Officer (COPSO)	Current Operations Officer (COPSO)
CURRENT OPERATIONS WATCH SECTION	Senior Watch Officer (SWO)	Senior Watch Officer (SWO)
	Senior Air Coordinator (SAC)	Senior Air Coordinator (SAC)
CURRENT OPERATIONS WATCH SECTION	Crew Chief (CC)	TACC Crew Chief (TACC-CC)
	Recorder	Recorder (RCDR)
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Deep Air Operations Manager	Deep Air Operations Manager (DAOM)

Table 1-4.--TACC Current Operations Section
Billet Syllabus Qualification Matrix--Continued.

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
DEEP BATTLE CELL	UAV Tasker	Air Battle Tasker (ABT)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Rotary Wing Tasker	Air Battle Tasker (ABT)
	UAV Tasker	Air Battle Tasker (ABT)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (CBC)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
	Rotary Wing Recorder	Recorder (RCDR)
	Rotary Wing Plotter	Plotter (PLTR)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (ADC)
	Air Defense Recorder	Recorder (RCDR)
	Air Defense Plotter	Plotter (PLTR)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer(ACO)
	Airspace Plotter/Recorder	Plotter (PLTR) Recorder (RCDR)
JOINT INTERFACE CONTROL OFFICER (JICO)CELL	Joint Interface Control Officer (JICO)	Joint Interface Control Officer (JICO)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Control Officer (ICO)	Interface Control Officer (ICO)
	Track Data Coordinator (TDC)	Track Data Coordinator (TDC)
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Air Battle Analyst (ABA)
	Deep Battle Analyst	Air Battle Analyst (ABA)
	Recorder	Recorder (RCDR)
SAR COORDINATION CELL	SRCC Officer	(SRCC)
	SRCC Recorder	Recorder (RCDR)

Table 1-5.--TACC Future Operations Section
Billet-Syllabus Qualification Matrix.

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Operations Officer (FOPSO)	Future Operations Officer (FOPSO)
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (ATODO)
ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (ATOPLO)
	Strike Planner	ATO MSN Planner (ATOMP)
	EW Planner	ATO MSN Planner (ATOMP)
	Support Planner	ATO MSN Planner (ATOMP)
	UAV Planner	ATO MSN Planner (ATOMP)
	Airspace Control Measures Planner	ATO/ACO Planner (AAP)
	Air Defense Planner	ATO/ACO Planner (AAP)
	Air Support Planner	ATO/ACO Planner (AAP)
ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (ATOPRO)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A
ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (ORDO)
	Strike Plans Officer	Orders Development Planner (ORDP)
	Support Plans Officer	Orders Development Planner (ORDP)
	C2 Plans Officer	AVN C2 Planner (AC2P)

Table 1-6.--TACC Future Plans Section
Billet-Syllabus Qualification Matrix.

FUTURE PLANS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Plans Officer	Future Plans Officer (FPNO)
	Sr Planner	N/A
	Airspace/Air Defense Planner	N/A
	Assault Support Planner	N/A
	Strike Support Planner	N/A
	Aviation Support Planner	N/A

102. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. Combat Capable Training. This training is accomplished at the Marine Air Control Squadron (MACS), Low Altitude Air Defense Battalion (LAAD Bn), or Marine Air Support Squadron (MASS) through on-the-job-training within a Marine's primary MOS. A prerequisite to personnel being assigned to the Tactical Air Command Center (TACC) is the completion of the Combat Qualification Training (300 level) syllabus for their respective MOS.

2. Combat Ready Training. Table 1-7 contains a listing of the combat ready training events and associated page numbers.

Table 1-7.--Combat Ready Training List.

EVENT	GOAL	PAGE
SYS-200	Operate communications equipment	1-30
SYS-201	Configure National Systems Information	1-31
SYS-202	Conduct TACC operations in an NBC environment	1-31
SYS-203	Operate the IOW system	1-32
SYS-204	Operate TBMCS	1-32
SYS-205	AFATDS set up and operations	1-33
SYS-206	Operate MSCS	1-33
CBC-210	Conduct Close Battle Cell planning	1-34
CBC-211	Perform as a CBC	1-35
CBC-212	Perform as a CBC	1-36
ADC-220	Conduct Air Defense planning	1-37
ADC-221	Perform as an ADC	1-38
ADC-222	Perform as an ADC	1-39
ACO-230	Airspace/airspace management planning	1-40
ACO-231	Perform ACO functions	1-41
ACO-232	Perform ACO functions	1-42
QUAL-280	Qualify the TACCO as a CBC	1-36
QUAL-281	Qualify the TACCO as an ADC	1-39
QUAL-282	Qualify the TACCO as an ACO	1-42
DESG-290	Designate the TACCO as a CBC	1-43
DESG-291	Designate the TACCO as an ADC	1-43
DESG-292	Designate the TACCO as an ACO	1-43

3. Combat Qualification Training. Table 1-8 contains a listing of the combat qualification training events and associated page numbers.

Table 1-8.--Combat Qualification Training List.

EVENT	GOAL	PAGE
CBA-300	Perform targeting analysis as a CBA	1-44
CBA-301	Monitor DASC/Close Battle Cell activity	1-45
AAP-310	Conduct airspace/control measures planning	1-46
AAP-311	Conduct Air Defense planning	1-47
AAP-312	Conduct Air Support planning	1-48
ICO-320	Develop planning documents	1-49
ICO-321	Perform as an ICO	1-50
ICO-322	Perform as an ICO	1-50
QUAL-380	Qualify the TACCO as a CBA	1-45
QUAL-381	Qualify the TACCO as an AAP	1-48
QUAL-382	Qualify the TACCO as an ICO	1-51
DESG-390	Designation as a CBA	1-52
DESG-391	Designation as an AAP	1-52
DESG-392	Designation as an ICO	1-52

4. Full Combat Qualification Training. Table 1-9 contains a listing of the full combat qualification training events and associated page numbers.

Table 1-9.--Full Combat Qualification Training List.

EVENT	GOAL	PAGE
SAC-400	Conduct TACC planning, embarkation and emplacement	1-53
SAC-401	Perform as a SAC	1-53
SAC-402	Perform as a SAC	1-54
PRC-410	Conduct Personnel Recovery Planning	1-55
PRC-411	Perform as a PRC	1-56
QUAL-480	Qualify the TACCO as a SAC	1-54
QUAL-481	Qualify the TACCO as a PRC	1-57
DESG-490	Designate the TACCO as a SAC	1-58
DESG-491	Designation the TACCO as a PRC	1-58

5. Instructor Qualification Training. None.

6. Special Skills Training and Designation. Table 1-10 contains a listing of the special skills training events and associated page numbers.

Table 1-10.--Special Skills Qualification Training List.

EVENT	GOAL	PAGE
DAOM-600	Conduct Deep Battle Cell Planning	1-59
DAOM-601	Perform as a DAOM	1-59
DAOM-602	Perform as a DAOM	1-61
AC2P-603	Perform as an AC2P	1-62

Table 1-10.--Special Skills Qualification Training List--Continued.

EVENT	GOAL	PAGE
AC2P-604	Perform as an AC2P	1-63
DBA-610	Perform Targeting Analysis as a DBA	1-64
DBA-611	Monitor Deep Battle Cell Activity	1-65
ATOPL-620	Conduct ATO Planning	1-66
ATOPL-621	Perform as an ATOPL	1-67
JICO-630	Perform as a JICO	1-68
SWO-650	Perform as a SWO	1-70
SWO-651	Perform as a SWO	1-71
COPS-660	Perform as a COPSO	1-72
FOPS-661	Supervise the conduct of Future Operations activities	1-74
FPNO-662	Supervise the conduct of Future Planning	1-76
QUAL-680	Qualify the TACCO as a DAOM	1-61
QUAL-681	Qualify the TACCO as a AC2P	1-63
QUAL-682	Qualify the TACCO as an DBA	1-65
QUAL-683	Qualify the TACCO as an ATOPL	1-67
QUAL-684	Qualify the TACCO as a JICO	1-69
QUAL-685	Qualify the TACCO as a SWO	1-71
QUAL-686	Qualify the TACCO as a COPSO	1-73
QUAL-687	Qualify the TACCO as a FOPSO	1-75
QUAL-688	Qualify the TACCO as a FPNO	1-77
DESG-690	Designate the TACCO as a DAOM	1-78
DESG-691	Designate the TACCO as a DBA	1-78
DESG-692	Designate the TACCO as an ATPLO	1-78
DESG-693	Designation as an AC2P	1-78
DESG-694	Designate the TACCO as a JICO	1-78
DESG-695	Designate the TACCO as a SWO	1-78
DESG-696	Designate the TACCO as a COPSO	1-79
DESG-697	Designate the TACCO as a FOPSO	1-78
DESG-698	Designate the TACCO as a FPNO	1-79

7. Operator Core Skills. Core skills are depicted in table 1-11 and directly support the METL for each unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need and the likelihood of those types of missions being assigned during operations.

Table 1-11.--Core Skills.

	CORE SKILLS						CORE PLUS	
METL	SYS	CBC	ADC	ACO	CBA	AAP	ICO	SAC
A	200 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
B	200 201 202 203 204 205	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402

Table 1-11.--Core Skills--Continued.

C	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
D	200 201	210	220	230	300 301	310 311 312	320	400
E	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
F	200 201 203 204 206		220 221 222			310 311		400 401 402
G	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
H	200 204	210	220	230	300	310	320	400
I	200 204 206	210	220	230 231 232		310	320	400 401 402
J	201 204 205	210	220	230 231 232	300 301	311 312	320	400 401 402
K	201 202 203 204 205	211 212	221 222	231 232	300 301	311 312	320	400 401 402
L	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
M	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312	320 321 322	400 401 402
N	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312		400 401 402
O	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312		400 401 402

103. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding officers will ensure this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation 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 those critical skills required in combat is essential.

3. Commanders shall ensure all tactical training is conducted to T&R standards, as outlined in MCO P3500.14. All syllabus events shall be tailored to meet T&R requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors, which all commanders must address, include, but are not limited to:

a. Efficiency. Time and resources expended are measurements for training efficiency. Commanders must ensure all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. Individual Differences. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. Decentralization of Training. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. 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.

6. Risk Management. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision-making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. MACCS Integrated Systems Training. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated air

command and control system. Large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated Systems Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. TADIL capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

104. TACTICAL AIR COMMAND CENTER OFFICER TRAINING PROGRESSION PHILOSOPHY

1. The purpose of this syllabus is to develop and refine those skills required for the Tactical Air Command Center Officer (TACCO) to function as a Senior Air Coordinator (SAC) within a core capable TACC Current Operations crew. The progression of the TACCO through the syllabus has been tailored towards that end. It is incumbent on the squadron commander to ensure each event is completed in accordance with each performance standard established for an event.

105. TACCO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCO is depicted in Figure 1-1.

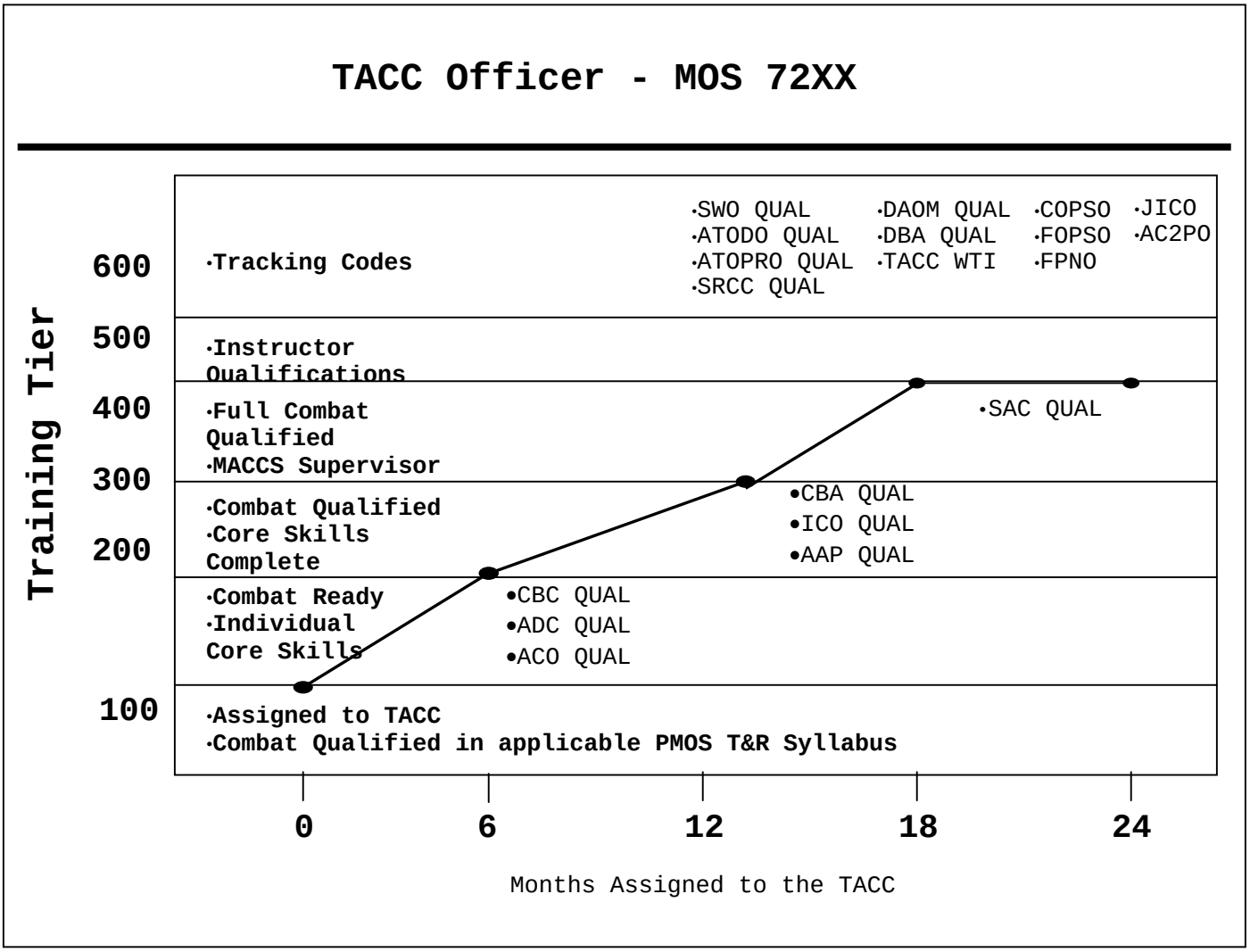

Figure 1-1.--TACCO Training Progression Model.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those “accession” qualifications an individual has received after completion of an MOS-qualifying school. The highest tier of the progression model contains those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable phase is normally accomplished at the completion of individual’s initial MOS skills training. With successful completion of the Combat Capable phase, unit personnel are assigned their primary MOS qualification and progress to the Combat Ready phase.

4. The Combat Ready phase delineates qualifications normally made available to inexperienced personnel. This phase takes individuals who have completed initial MOS skills training and makes them proficient in core competencies. With successful completion of the Combat Readiness phase, unit personnel progress to the Combat Qualification phase.

5. The Combat Qualification phase is the portion of the model that produces combat leaders and fully qualified crewmembers. Personnel trained in the Combat Qualification phase are those whom a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full Combat Qualification phase contains special skills that are not prerequisite to combat qualification, or the ability to function as combat leaders. A certain number of Full Combat qualified individuals must be maintained to accomplish assigned missions or tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit’s training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear training progression model and an emphasis on qualifying "Combat Ready" and "Combat Qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

106. PROGRAMS OF INSTRUCTION (POI) FOR TACCO. There is currently no formal-school training provided for TACC personnel.

107. MISSION QUALIFICATIONS/DESIGNATIONS

1. Tactical Air Command Center (TACC)

a. Current Operations Section

(1) Current Operations Officer (COPSO) Qualification. A Marine officer is COPSO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a COPSO by the MAW commander. A designation letter shall be entered into the officer’s MACCS Performance Record.

(2) Senior Watch Officer (SWO) Qualification. A Marine officer is SWO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a SWO by the MAW commander. A designation letter shall be entered into the officer’s MACCS Performance Record.

(3) Senior Air Coordinator (SAC) Qualification. A MACCS officer (MOS 72XX) is SAC qualified after completing required training events of the

appropriate T&R syllabus. The officer shall be certified as a SAC by a unit TACC WTI, or the MAWTS-1 TACC instructor and designated SAC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(4) Close Battle Coordinator (CBC) Qualification. A Marine officer (MOS 72XX) is CBC qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a CBC by a designated SAC and designated CBC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(5) Deep Air Operations Manager (DAOM) Qualification. A Marine officer (MOS 72XX) is DAOM qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a DAOM by a designated SAC and designated DAOM qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(6) Air Defense Coordinator (ADC) Qualification. A Marine officer (MOS 72XX) is ADC qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ADC by a designated SAC and designated ADC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(7) Airspace Control Officer (ACO) Qualification. A MACCS officer (MOS 72XX) is ACO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ACO by a designated SAC and designated ACO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(8) Air Battle Analyst (ABA) Qualification. A Marine officer (MOS 72XX) is ABA qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ABA by a designated SAC and designated ABA qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(9) Interface Control Officer (ICO) Qualification. A Marine officer (MOS 72XX) is ICO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified as an ICO by a designated SAC and designated ICO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(10) Personnel Recovery Coordinator (PRC) Qualification. A Marine officer (MOS 72XX) is PRC qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a PRC by a designated SAC and designated PRC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

b. Future Operations Section

(1) Future Operations Officer (FOPSO) Qualification. A Marine officer is FOPSO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a FOPSO by the MAW commander. A designation letter shall be entered into the officer's MACCS Performance Record.

(2) ATO Development Officer (ATODO) Qualification. A Marine officer (MOS 72XX) is ATODO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATODO by the MAW G3 and designated ATODO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(3) ATO Production Officer (ATOPRO) Qualification. A Marine officer (MOS 72XX) is ATOPRO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPRO by the MAW G3 and designated ATOPRO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(4) ATO Plans Officer (ATOPLO) Qualification. A Marine officer (MOS 72XX) is ATOPLO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPLO by the MAW G3 and designated ATOPLO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(5) Orders Development Officer (ORDO) Qualification. A Marine officer (MOS 72XX) is ORDO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDO by the MAW G3 and designated ORDO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(6) Orders Development Planner (ORDP) Qualification. A Marine officer (MOS 72XX) is ORDP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDP by the MAW G3 and designated ORDP qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(7) ATO/ACO Planner (AAP) Qualification. A Marine officer (MOS 72XX) is AAP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an AAP by the MAW G3 and designated AAP qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(8) ATO Mission Planner (ATOMP) Qualification. A Marine officer (MOS 72XX) is ATOMP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOMP by the MAW G3 and designated ATOMP qualified by the MAW commander's representative.

A designation letter shall be entered into the officer's MACCS Performance Record.

c. Future Plans Section

(1) Future Plans Officer (FPNO) Qualification. A Marine officer is FPNO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an FPNO by the MAW G3 and designated FPNO qualified by the MAW Commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

(2) AVN C2 Planner (AC2P) Qualification. A MACCS officer (MOS 72XX) is AC2P qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an AC2P by the MAW G3 and designated AC2P by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

d. Joint Interface Control Officer (JICO)/Regional Interface Control Officer (RICO) Cell. A Marine officer (MOS 72XX) is JICO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a JICO by a designated JICO and designated JICO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

110. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 1-12 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 1-12.--Recommended T&R Lectures.

LECTURE CODE	LECTURE TITLE	SPONSOR
	200 LEVEL: COMBAT READY TRAINING	
A-01*	MAGTF Organization	MCCES
A-02*	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03*	Control of Aircraft & Missiles	MAWTS-1
A-04*	Offensive Air Support	MAWTS-1
A-05*	Assault Support	MAWTS-1
A-06*	Electronic Warfare	MAWTS-1
A-07*	Aerial Reconnaissance	MAWTS-1
A-08*	Anti-Air Warfare	MAWTS-1
A-09*	Air Tasking Order/Special Instructions	MCCES
A-10*	MACCS Training Management	Local MACG
A-11*	MACCS reference material	MCCES
A-12*	Local AOR Contingencies & OP PLANS	Local MACG
A-13*	ROE Overview	Local MACG MAW
A-14*	MACCS Communications	MAWTS-1
A-15*	TBMCS Overview	MAWTS-1
A-16*	Data Link Symbology	MCCES
A-17*	Manual Crosstell procedures	MCCES
A-18*	Encryption & Authentication Procedures	MCCES
A-19*	COMSEC & Crypto handling	MCCES

	300 LEVEL: COMBAT QUALIFIED TRAINING	
B-01*	Missle and UAV Threat to MAGTF	MAWTS-1
B-02*	Fixed Wing Threat to the MAGTF	MAWTS-1
B-03*	Rotary Wing Threat to the MAGTF	MAWTS-1
B-04*	REC Threat	MAWTS-1
B-05*	Armor Threat to the MAGTF	MAWTS-1
B-06*	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07*	TACC	MAWTS-1
B-08*	TAOC	MAWTS-1
B-09*	DASC	MAWTS-1
B-10*	ATC Detachment	MAWTS-1
B-11*	LAAD Bn	MAWTS-1
B-13*	MWCS	MAWTS-1
B-14*	AC2W-ISR	MAWTS-1
B-15*	Multi TADIL Network	MAWTS-1
B-16*	USMC Aviation Ordnance	MCCES
B-17*	Phasing Control Ashore	MAWTS-1
B-18*	Airspace Planning/Management (Combat Airspace)	Local MACG MAW
B-19*	Tanker Management	MAWTS-1
B-20*	Armed Reconnaissance	MAWTS-1
B-21*	UAV Overview	MAWTS-1
B-22*	Link Architecture & Procedures	Local MACG MAW
B-23*	Introduction to Personnel Recovery	MAWTS-1
B-24*	NEO Execution	MAWTS-1
B-25*	Execution Checklist	MAWTS-1

Table 1-12.--Recommended T&R Lectures--Continued.

LECTURE CODE	LECTURE TITLE	SPONSOR
	400 LEVEL: FULL COMBAT QUALIFIED TRAINING	
C-01*	Integrated Combat Airspace Command & Control ($ICAC^2$)	Local MACG MAWTS-1
C-02*	Joint Air Operations	MAWTS-1
C-03*	TBM and CM Defense	MAWTS-1
C-04*	JTAO Procedures	MCCES
C-05*	Law of War and ROE	MAWTS-1
C-06*	SIS Aircraft	MAWTS-1

Note: (*) The lecture code is standardized throughout all MACCS related syllabi, and is used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 1-13 is recommended for personnel assigned to the TACC.

Table 1-13.--TACC Academic Syllabus.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)	MCCES	X	X	
T-06	ATOs AND ACOs		X	X	X
T-07	CBC RESPONSIBILITIES		X	X	
T-08	IBS/CTT	MAWTS-1	X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPERATIONS		X	X	X
T-14	JOINT AIR COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP	MAWTS-1	X	X	X
T-18	TBMCS CURRENT OPERATIONS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPERATIONS MESSAGES	MAWTS-1	X		
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X
T-23	EMERGENCY PROCEDURES		X	X	
T-24	ELECTRONIC PROTECTION CAPABILITIES	MAWTS-1	X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		

Table 1-13.--TACC Academic Syllabus--Continued.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO C2W		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)	MCCES	X	X	X
T-32	MANUAL BACKUP TACC PROCEDURES		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDERS		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	JOINT MUNITIONS EFFECTIVENESS MANUAL (JMEMS)	MAWTS-1	X	X	X
T-37	NATIONAL SYSTEMS TASKING PROCESS/CYCLE	MAWTS-1	X	X	
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL	MCCES	X	X	X
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	IMINT	MAWTS-1	X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-45	LMS-16				
T-46	TACC EMPLOYMENT AND PLANNING CONSIDERATIONS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	AOC OVERVIEW	C2WS	X	X	X
T-51	IOS/IOW OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM	MAWTS-1	X	X	X
T-55	GMF OVERVIEW	MAWTS-1	X		
T-56	BASIC WEATHER		X	X	X
T-57	AFATDS		X	X	X
T-58	JOINT AIR OPERATIONS	MAWTS-1	X		
T-59	TBMCS FUTURE OPS. APPLICATIONS			X	
T-60	INFORMATION MANAGMENT AND CONNECTIVITY	MAWTS-1	X	X	
T-61	ELECTRONIC WARFARE COORDINATION CENTER	MAWTS-1	X	X	
T-62	ELECTRONIC TARGETING AND ATTACK	MAWTS-1	X	X	
T-63	ALLIED SAMS	MAWTS-1	X	X	
T-64	ATARS EMPLOYMENT	MAWTS-1	X	X	
T-65	OAS PGMS	MAWTS-1	X	X	
T-66	ENVIRONMENTAL EFFECTS OF ELECTROMAGNETIC ENERGY	MAWTS-1	X	X	

3. External academic courses of instruction available to support the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course (MAJIC)	JMTS
JTIDS Course	JMTS
JTIDS Network Design & System Management (JNDSM)	JMTS
Joint Air Tasking Order Process Course (JATOPC)	C2WS
IOS Operator's Course	EWTG
Military Airspace Management Course	Keesler AFB
Joint Doctrine Air Campaign Course (JDACC)	AFCSC
JFACC Augmentation Staff Course	TACTRAGRUPAC
SWO Course	MAWTS-1
ACE Battlestaff Officer Course	MAWTS-1
Personnel Recovery 101	JPRA
Personnel Recovery 301	JPRA
JICO Course	JMTS
JSSC Course	C2WS
WTI Course	MAWTS-1

111. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria and equipment operation:

PUBLICATION #	TITLE
ACP-125	Allied Communication Publication
CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	TBMCS Software User's Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JTDIVO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol II	Threat Reference Manual
MCO 3501.9	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1	Targeting
MCRP 3-16.8	MSP for the Joint Application of Firepower (J-FIRE)
MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations
MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook

MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (IOS)
TSC-125-96-U	IOS Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

120. LIVE/SIMULATOR EVENT TRAINING: TACCO

1. COMBAT CAPABLE TRAINING

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT MACS/MASS/LAAD BN		60.00%

2. COMBAT READY TRAINING

STAGE	EVENTS	PERCENT
SYSTEM TRAINING	7	3.00%
CLOSE BATTLE COORDINATOR TRAINING	4	4.00%
AIR DEFENSE COORDINATOR TRAINING	4	4.00%
AIRSPACE CONTROL OFFICER TRAINING	4	4.00%
TOTALS:	**19**	**15.00%**

3. COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
CLOSE BATTLE ANALYST TRAINING	3	5.00%
ATO/ACO PLANNER TRAINING	4	7.00%
INTERFACE COORDINATION OFFICER TRAINING	4	8.00%
TOTALS:	**11**	**20.00%**

4. FULL COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
SENIOR AIR COORDINATOR TRAINING	4	3.00%
PERSONNEL RECOVERY COORDINATOR TRAINING	3	2.00%
TOTALS:	**7**	**5.00%**

5. **INSTRUCTOR TRAINING**

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **SPECIAL SKILLS TRAINING**

STAGE	EVENTS	PERCENT
DEEP AIR OPERATIONS MANAGER TRAINING	4	0.00%
AC2 PLANNER TRAINING	3	0.00%
DEEP BATTLE ANALYST TRAINING	3	0.00%
ATO PLANS OFFICER TRAINING	3	0.00%
JICO TRAINING	2	0.00%
SENIOR WATCH OFFICER TRAINING	3	0.00%
CURRENT OPERATIONS OFFICER TRAINING	2	0.00%
FUTURE OPERATIONS OFFICER TRAINING	3	0.00%
FUTURE PLANS OFFICER TRAINING	2	0.00%
TOTALS:	**25**	**0.00%**
TACCO MOS 72XX T&R TOTALS:	**62**	**100.00%**

130. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. General. The majority of the TACCO syllabus is ground training that requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified TACCO.

a. Live Training. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. Simulator Training. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Command Center (TACC). Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction

with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. Minimum Performance for Syllabus "Write-Off". At the evaluator's discretion, personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency. Likewise, completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as completed at the discretion of the designated evaluator. Qualifications require a completed performance evaluation.

3. Evaluation of Training. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per this manual.

131. COMPONENTS OF A T&R EVENT. An event contained within a T&R manual is an individual or collective training standard and contains seven or eight components, dependent on the phase in which they are contained.

1/	2/	3/	4/	5/	6/
SAM-XXX	0.5	T,C,R,	E	EQUIP	L/S (NS)

Goal. The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance oriented action requiring learned skills and knowledge (i.e., Engage a rotary winged aircraft).

Requirement. The condition(s) set for the real-world or combat circumstances in which the goals are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the goal 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.

Performance Standards. Describe measurable level of proficiency for that core competency. 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 goal is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

Prerequisites. Provides a listing of academic training or other T&R events that must be completed prior to satisfying the goal.

References. Listing of doctrinal or reference publications that may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of goal completion.

External Support Requirement. A listing or description of the external support requirements that may be required to satisfy completion of the goal. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES

1/ Events are coded per chapter 7 of T&R Manual, Administrative.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable basic POI.

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; where contained within **( )** denotes optional conditions.

132. COMBAT CAPABLE TRAINING. All Combat Capable training (100 series) is accomplished at the MACS, MASS, or LAAD after completing the applicable primary MOS Combat Qualification Syllabus for each Marine.

133. COMBAT READY TRAINING

1. System Training

a. Purpose. To develop the skills required to maintain proficiency in operating TACC equipment.

b. General. Contains the tactical and technical information necessary to maintain system proficiency.

c. Prerequisite. None.

d. Live Training (5 Events)

SYS-200 R TACC L

Goal. Operate communications equipment.

Requirement. Demonstrate the use of tactical communications equipment, appropriate code words and communications brevity terms.

Performance Standards. Properly utilize the available communications suite:

(1) Internal communications (ICS).
(2) Radio nets.
(3) Switchboard nets and secure phones.
(4) Master proper authentication procedures.
(5) Utilize proper radio transmission procedures in both secure and clear modes.
(6) Successfully complete 80% of the above listed standards.

Reference. TACC TM's.

Prerequisites. Academics: A-14, A-18, A-19.

External Syllabus Support. External agencies.

SYS-201 4.0 T, R TACC L

Goal. Configure and interpret Integrated Broadcast Receiver (IBR) derived National Systems Data (NSD).

Requirement. Configure the IBR display to depict desired NSD.

Performance Standards. Demonstrate proficiency in the following:

(1) Configure geographic, ELNOT based, and combined filtering scheme for TIBS, TDDS, and TADIXS-B data.
(2) Interpret location fidelity, time latency, and implications to operations of displayed ELINT information.

Reference. TIBS/TDDS Broadcast Users Guide.

Prerequisites. Academics: T-08, SYS-206.

External Syllabus Support. IBR and IBS.

SYS-202 R TACC L/S

Goal. Conduct TACC operations in an NBC environment.

Requirement. Operate in a simulated NBC environment using MOPP equipment.

Performance Standards. Perform crew requirements while in MOPP level 4.
Reference. NBC SOP.

Prerequisites. NBCD training and MOPP level exchange.

External Syllabus Support. None.

SYS-203 R TACC L/S

Goal. Operate the IOW system.

Requirement. Create, edit and delete overlay and track information in IOW.

Performance Standards. Demonstrate proficiency in the following:

(1) Load maps into the IOW workstation.
(2) Connect IOW workstation to gateway.
(3) Create overlays.
(4) Import/export overlays to/from UB Host.
(5) Transmit an overlay.
(6) Successfully complete 80% of the above listed standards.

References. TSC-125-97-U and IOS Student Guide.

Prerequisites. Academics: T-10, T-29, T-51.

External Syllabus Support. None.

SYS-204 R TACC L/S

Goal. Operate TBMCS.

Requirement. Proficient in TBMCS Current Operations applications.

Performance Standards. Demonstrate proficiency in the following:

(1) Login/logout of the TBMCS workstation.
(2) Manipulate the Common Operating Environment.
(3) Demonstrate proficiency in:
   (a) EM Replanner.
   (b) EM Reports.
   (c) EMC.
   (d) ATO/ACO Tool.
   (e) TK Talk.
   (f) E Mail.
   (g) User Alerts.
   (h) CAST/WARP.
   (i) Chat Utility.
(4) Successfully complete 80% of the above listed standards.

References. TBMCS and C2WS CBT.

Prerequisites. Academics: A-15, T-10, T-29.

External Syllabus Support. None.

SYS-205 2.0 R TACC L/S

Goal. Set up AFATDS for operations.

Requirement. Set up and operate AFATDS.

Performance Standards. Demonstrate the ability to:

(1) Interoperate with TBMCS in all six functional areas.
(2) Identify proper nomenclature of all system components.
(3) Create fire support coordination measure overlays.
(4) Receive and respond to Joint Tactical Air Requests (JTARS) and Air Support Requests (ASR).
(5) Pass overlays and requests to outlying MAGTF agencies.
(6) Understand connectivity requirements for AFATDS operations.
(7) Create, modify and delete unit position tracks.
(8) Successfully complete 80% of the above listed standards.

Prerequisite. T-57.

Reference. AFATDS TM.

External Syllabus Support. TBMCS, DASC, and GCE component agencies.

SYS-206	2.0	R	TACC	L/S

Goal. Be proficient in Multiple Source Correlation System (MSCS) operations.

Requirement. Operate the MSCS.

Performance Standards. Demonstrate the ability to:

(1) Log into MSCS.
(2) Create/display/manipulate zones, overlays, and tracks.
(3) Edit Track Data display.
(4) Modify display defaults.
(5) Display data link/filter status.
(6) Modify display using system/status commands.
(7) Successfully complete 80% of the above listed standards.

Prerequisite. T-33.

Reference. MSCS Operator Reference Guide.

External Syllabus Support. None.

2. Close Battle Coordinator (CBC) Training

a. Purpose. To refine TACCO skills required for the CBC qualification and to provide a means for the TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CBC qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of close air and assault support missions in support of the MAGTF close battle and functioning as a member of the COS.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) Prerequisite. Combat Qualified in primary MOS and completion of the MACCS Academic COI (200 level).

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

CBC-210 R TACC L

Goal. Close Battle Cell planning.

Requirement. Participate in Close Battle Cell planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the Close Battle Cell portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, PCH, etc.) and assist in the development of the close/rear battle plans for the MAGTF.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Strike Operations planning, as required.
(5) Assist in planning emissions control measures, as required.
(6) Assist in the planning for CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, local SOPs.

Prerequisites

(1) SYS-200, SYS-203, SYS-204, SYS-205.

(2) Completion of MACCS Academic COI(200 level).
(3) Academics: B-1 - B-07, B-09, B-16, B-17, B-18 B-20, B-21, B-23, B-24, B-25, C-01, C-02, C-03, T-04 - T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57, T-61, T-62, T-65.

External Syllabus Support. None.

CBC-211 R TACC S/L

Goal. Perform as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the Close Battle Cell portion of the TACC crew briefing.
(2) Acquire and maintain current information concerning status and operations of air missions supporting the MAGTF close battle.
(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.
(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.
(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.
(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend courses of action (COA) to support JTARs/ASRs/CASEVACs to the SAC/SWO based upon asset availability.
(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC to:
   (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
   (b) Divert preplanned missions and provide mission briefings.
   (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
   (d) Direct launches of unscheduled missions and provide mission briefings.
   (e) Coordinate scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the close battle situation.
(10) Coordinate modification of ACMs/FSCMs, as required.
(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.
(12) Coordinate with the Ground Watch Section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Supervise the conduct of the Close Battle Cell.

(14) Monitor equipment status and operational posture of C3 agencies relative to the close battle, as required.
(15) Maintain appropriate logs.
(16) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisites

(1) SYS-200, SYS-201, SYS-203, SYS-204, SYS-205.
(2) Completion of MACCS Academic COI(200 level).
(3) Academics: B-1 - B-07, B-09, B-16, B-17, B-18, B-20, B-21, B-23, B-24, B-25, T-04 - T-07 - T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57, T-61, T-62, T-64, T-65.

External Syllabus Support. External C3 agencies.

CBC-212 R TACC L/S

Goal. Perform as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in CBC-211.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisites. CBC-210 and CBC-211.

External Syllabus Support. External C3 agencies.

QUAL-280 R, E TACC L

Goal. Qualify the TACCO as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in CBC-210 and CBC-211.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisite. CBC-212.

External Syllabus Support. External C3 agencies.

3. Air Defense Coordinator (ADC) Training

a. Purpose. To refine TACCO skills required for designation as an ADC and provide a means for the designated ADC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ADC qualification.

(b) During designated events, the TACCO must demonstrate proficiency in coordinating air defense assets within the assigned sector of operations, maintaining situational awareness, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(c) At least one live and one simulated ADC performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) Prerequisite. Combat Qualified in primary MOS, completion of the MACCS Academic COI (200 level).

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ADC-220 R TACC L

Goal. Conduct air defense planning.

Requirement. Participate in Air Defense Cell planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the air defense portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, intentions message, etc.) and assist in the development of the air defense plan for the assigned area.
(3) Perform threat analysis for defended assets.

(4) Review and make recommendations for modification of airspace/air defense control measures, as required.
(5) Conduct TMD planning, as required.
(6) Participate in planning emissions/radiation control measures.
(7) Successfully complete 80% of the above listed standards.

Reference. MCWP 3-25 series.

Prerequisites

(1) SYS-204.
(2) Completion of the MACCS Academic COI (200 level).
(3) Academics: B-01 - B-03, B-07, B-08, B-10 - B-12, B-14, B-16, B-18, B-19, C-01 - C-06, T-01 - T-04, T-06, T-07, T-09 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-38 - T-39, T-42 - T-44, T-50, T-54, T-56, T-58, T-60, T-63, T-66.

External Syllabus Support. None.

ADC-221	R	TACC	S/L

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the air defense portion of the TACC crew brief.
(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.
(3) Coordinate air defense operations of subordinate and external agencies, as directed.
(4) Initiate orders to air defense agencies and countermand subordinate agency actions, as required.
(5) Monitor equipment status and operational posture of C3 agencies relative to air defense, as required.
(6) Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert.
(7) Coordinate with the SADC/RADC/AADC concerning the execution of air defense missions.
(8) Exercise authority, as may be delegated by the ACE commander, SWO and SAC to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.
    (e) Coordinate the scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the air defense situation.
(10) Coordinate the following, as required:

(a) Modify ADCMs.
(b) Change sectors of responsibility.
(c) Change established ROE.
(d) Change EMCON/RADCON status.
(e) Flow of air defense information/reports.

(11) Ensure established cross-tell procedures are utilized by the air defense section, as required.
(12) Maintain appropriate logs.
(13) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisites

(1) SYS-200, SYS-201, SYS-203, SYS-204, SYS-206.
(2) Completion of the MACCS Academic COI (200 level).
(3) Academics: B-01 - B-03, B-07, B-08, B-10 -B-12, B-14, B-16, B-18, B-19, C-01 - C-06, T-01 - T-04, T-06 – T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-38 - T-39, T-42 – T-44, T-50, T-54, T-56, T-58, T-60, T-63, T-66.

External Syllabus Support. External C3/AD agencies.

ADC-222 R TACC L/S

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ADC-221.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisites. ADC-220 and ADC-221.

External Syllabus Support. External C3/AD agencies.

QUAL-281 R E TACC L

Goal. Qualify the TACCO as an ADC.

Conditions. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ADC-220 and 221.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisite. ADC-222.

External Syllabus Support. External C3/AD agencies.

4. Airspace Control Officer (ACO) Training

a. Purpose. To refine TACCO skills required for designation as an ACO and to provide a means for the designated ACO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ACO qualification.

(b) The TACCO must demonstrate proficiency in coordinating all airspace management and air traffic control issues and procedures within the COS.

(c) At least one live and one simulated ACO performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Completion of the MACCS Academic COI (200 level).

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ACO-230 R TACC L

Goal. Conduct airspace/airspace management planning.

Requirement. Participate in Airspace Cell planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the ACO portion of the TACC crew brief.
(2) Ensure airspace plans within assigned area are in compliance with established Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation). Define and delegate areas of control jurisdiction and conditions of use.

(3) Coordinate airspace requirements and utilization procedures with the GCE and the ACE to ensure safe and orderly control and movement of aircraft within the assigned operating area.
(4) Assist in the development, review and standardization of air traffic control procedures within the AO.
(5) Assist in the development of ATC contingency plans to allow for continuity of aircraft operations.
(6) Assist in the development of routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO.
(7) Assist in the development of airspace requirements and airspace control measures.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, FMFRP 5-61, local SOPs.

Prerequisites

(1) SYS-204.
(2) Completion of the MACCS Academic COI (200 level).
(3) Academics: B-01 - B-11, B-17, B-18, B-21, C-01, C-02, T-04, T-06, T-09 T-13 - T-16, T-18, T-22, T-23, T-28, T-29, T-34, T-35, T-39, T-42 - T-44, T-50, T-54, T-56, T-58, T-59, T-63.

External Syllabus Support. None.

ACO-231 R TACC S/L

Goal. Perform ACO functions.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the ACO portion of the TACC crew brief.
(2) Coordinate with the Ground Watch Section for the plotting and deconfliction of fire support coordination measures as they affect air operations.
(3) Coordinate with the Airspace Control Authority (ACA) for all immediate (current ATO) airspace requirements.
(4) Update and monitor changes to the ACP, ACO, or SPINS and apprise the SAC/SWO of any changes, as required.
(5) Coordinate/deconflict airspace requirements with MAGTF and attached agencies.
(6) Assist in RCC coordination, as required.
(7) Coordinate/resolve immediate airspace issues with external agencies (Joint, FAA, host nation), as required.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, local SOPs, FMFRP 5-61.

Prerequisites

(1) SYS-200, SYS-201, SYS-203, SYS-204, SYS-205.
(2) Completion of the MACCS Academic COI (200 level).
(3) Academics: B-07 - B-11, B-17, B-18, B-21, C-01, C-02, T-04, T-06, T-13 - T-16, T-18, T-22, T-23, T-28, T-29, T-34, T-35, T-39, T-42 - T-44, T-50, T-54, T-56, T-58, T-59, T-63.

External Syllabus Support. External C3 agencies.

ACO-232 R TACC L/S

Goal. Perform ACO functions.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in ACO-231.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, FMFRP 5-61, local SOPs.

Prerequisites. ACO-230 and ACO-231.

External Syllabus Support. External C3 agencies.

QUAL-282 R E TACC L

Goal. Qualify the TACCO as an ACO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ACO-231.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, FMFRP 5-61, local SOPs.

Prerequisite. ACO-232.

External Syllabus Support. External C3 agencies.

5. Combat Ready Designations

a. Purpose. To designate the TACCO as a CBC, ADC, and ACO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC. A recommendation for designation will be staffed to the MAW commander's representative.

(c) The TACCO shall have a designation letter, with any waivers deferments or endorsements, filed in their MACCS Performance Record.

(2) Prerequisites

(a) Completion of the Combat Capable phase of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (3 Events)

DESG-290 TACC

Goal. Designate the TACCO as CBC.

Prerequisite. QUAL-280.

DESG-291 TACC

Goal. Designate the TACCO as ADC.

Prerequisite. QUAL-281.

DESG-292 TACC

Goal. Designate the TACCO as ACO.

Prerequisite. QUAL-282.

134. COMBAT QUALIFICATION TRAINING

1. Close Battle Analyst (CBA) Training

a. Purpose. To refine TACCO skills required for CBA qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTFs close battle.

(c) At least one live CBA performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisite. QUAL-280.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

CBA-300	R	TACC	L/S

Goal. Perform targeting analysis as a CBA.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review MAGTF targeting guidance and combat assessment data (e.g. BHA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.
(2) Coordinate with the Intelligence Watch Section concerning updated targeting and BHA information.
(3) Coordinate with the Intelligence Watch Section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential COA.
(4) Monitor MAGTF targeting guidance updates.
(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.
(6) Advise the SWO on the real-time employment of air assets to support the close battle.
(7) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisites

(1) QUAL-280.
(2) Academics: B-05 and B-06.

External Syllabus Support. External C3 agencies.

CBA-301 R TACC L/S

Goal. Monitor DASC/Close Battle Cell activity.

Requirement. During an exercise.

Performance Standards. Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the MAGTF close battle.
(2) Analyze in-flight reports/BHA's and coordinate with the Intelligence Watch Section for simultaneous review and processing.
(3) Assess the close battle and the requirement to shift ATO assets to support the ongoing battle.
(4) Coordinate with the CBC, the MAGTF air officer, the CSSE, and the FSCC/Force Fires Coordination Center to maintain situational awareness.
(5) Coordinate with the Close Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a coa to the SWO.
(6) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisites

(1) QUAL-280.
(2) Academics: B-05 and B-06.

External Syllabus Support. External C3 agencies.

QUAL-380 R E TACC L

Goal. Qualify the TACCO as a CBA.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in CBA-300 and CBA-301.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisites. CBA-300 and CBA-301.

External Syllabus Support. External C3 agencies.

2. Air Tasking Order (ATO)/Airspace Control Order (ACO) Planner (AAP) Training

a. Purpose. To refine TACCO skills required for AAP designation, and to provide a means for the designated AAP to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for AAP qualification.

(b) The TACCO must demonstrate proficiency in conducting Future Operations planning for air defense, ACMs and air support operations.

(c) Non-qualification, evaluated events will be supervised by a designated AAP.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Completion of the MACCS Academic COI (200 level and designated 300 level courses). Completion of the Combat Ready stage of training is required prior to the qualification event, QUAL-381.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the qualification event.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

AAP-310	R E	TACC	L

Goal. Conduct airspace/control measures planning.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use.

(2) Coordinate airspace requirements and utilization procedures between the GCE, ACE, CSSE and external agencies to ensure safe and orderly control and movement of aircraft within the AO.
(3) Develop, review and standardize air traffic control (ATC) procedures within the AO.
(4) Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations.
(5) Delegate responsibility for control of aircraft within the OPORD/ATO.
(6) Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO.
(7) Establish ACM within the AO, as required.
(8) Enter required C2 information into applicable TBMCS databases.
(9) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, FMFRP 5-61, local SOPs.

Prerequisite. ACO-230.

External Syllabus Support. None.

AAP-311 R E TACC L

Goal. Conduct air defense planning.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASK AAW, TACOPDAT, intentions message, etc.) and assist in the development of the ADP.
(2) Review and make recommendations for modification of airspace/air defense control measures, as required.
(3) Conduct TMD planning, as required.
(4) Participate in the planning and development of emissions/radiation control measures.
(5) Assist in the development of the destruction area.
(6) Recommend changes to air defense asset positioning and weapons resupply procedures.
(7) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series.

Prerequisite. ADC-220.

External Syllabus Support. None.

AAP-312 R E TACC L

Goal. Conduct Air Support planning.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the MAGTF air battle plan.
(2) Review and make recommendations for modification of airspace/fire support coordination measures.
(3) Assist in TMD Attack Operations planning.
(4) Assist in planning emissions control measures.
(5) Assist in planning for CASEVAC operations.
(6) Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB).
(7) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, local SOPs.

Prerequisite. CBC-210.

External Syllabus Support. None.

QUAL-381 R E TACC L/S

Goal. Qualify the TACCO as an AAP.

Requirement. During as exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in AAPs 310, 311, or 312.
(2) Assist in final review of the ATO before release/forwarding.
(3) Successfully complete 80% of the above listed standards.

References. MCWP 3-23.1, MCWP 3-25 series, FMFRP 5-61, local SOPs.

Prerequisites

(1) Completion of the Combat Ready phase of training.
(2) AAP-310, AAP-311, and AAP-312.

External Syllabus Support. External C3 agencies.

3. Interface Control Officer (ICO) Training

a. Purpose. To refine TACCO skills required for designation as an ICO and to provide a means for the designated ICO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ICO qualification.

(b) During designated events, the TACCO must demonstrate proficiency in managing system interfaces, maintaining an accurate situational display, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(2) Prerequisite. Completion of the MACCS Academic COI (200 level).

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ICO-320	R	TACC	L

Goal. Develop planning documents.

Requirement. Conduct multi-TADIL network planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Develop an OPTASK LINK.
(2) Assist in the development of the surveillance plan/TACOPDAT within the AO.
(3) Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include:
    (a) SCR/MUX/SATCOM requirements.
    (b) Telephone (secure and non-secure) requirements.
    (c) Data link interface requirements.
    (d) TBMCS interface requirements.
(4) Ensure availability of all required cryptographic keying material.
(5) Assist in the development of redundant architectural designs for all interface requirements listed in standard (3) above.
(6) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisites

(1) Completion of the MACCS Academic COI(200).

(2) Attendance at the MAJIC course and JTIDS course recommended, but not required.
(3) Academics: B-04, B-06, B-08 - B-15, B-17, B-22, C-01 - C-03, C-06, , T-08, T-10, T-13 - T-16, T-18 - T-22, T-24, T-26 - T-30, T-32 - T-35, T-39, T-42, T-49, T-50 - T-54, T-56, T-58, T-60, T-66.

External Syllabus Support. None.

ICO-321 R TACC S/L

Goal. Perform as an ICO.

Requirement. Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the ICO portion of the TACC crew brief.
(2) Supervise the TDC performing track management functions.
(3) Supervise the appropriate use and implementation of manual crosstell procedures.
(4) Recommend and implement changes to data link configurations and EMCON conditions, as required.
(5) Monitor the accuracy of data link presentations.
(6) Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies.
(7) Monitor quality of MAGTF input to the common tactical picture.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01A, local SOPs.

Prerequisites. ICO-320, SYS-200, SYS-201, SYS-203, SYS-204, SYS-206.

External Syllabus Support. External TADIL platforms.

ICO-322 R TACC L/S

Goal. Perform as an ICO.

Requirement . Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in ICO-321.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisite. ICO-321.

External Syllabus Support. External TADIL platforms.

QUAL-382 R E TACC L

Goal. Qualify the TACCO as an ICO.

Requirement. Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ICO-320 and ICO-321.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisite. ICO-322.

External Syllabus Support. External TADIL platforms.

4. Combat Qualification Designations

a. Purpose. To designate the TACCO as a CBA, an AAP, and an ICO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW commander’s designated representative.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual’s MACCS Performance Record.

(2) Prerequisites. Completion of the Combat Qualification phase of training.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (3 Events)

DESG-390 TACC

Goal. Designate the TACCO as a CBA.

Prerequisite. QUAL-380. Completion of Academic COI, performance, and qualification events..

DESG-391 TACC

Goal. Designate the TACCO as an AAP.

Prerequisite. QUAL-381. . Completion of Academic COI, performance, and qualification events.

DESG-392 TACC

Goal. Designate the TACCO as an ICO.

Prerequisite. QUAL-382. . Completion of Academic COI, performance, and qualification events.

135. FULL COMBAT QUALIFICATION TRAINING

1. Senior Air Coordinator (SAC) Training

a. Purpose. To refine TACCO skills required for the SAC qualification, and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for SAC qualification.

(b) The TACCO must demonstrate proficiency in supervising the execution of the current ATO by the MACCS and assisting/advising the SWO on matters pertaining to MACCS employment.

(c) At least one live SAC performance event will be conducted with a core competent, task-organized TACC crew during an exercise.

(2) Prerequisites. Completion of the Combat Ready stage of training, QUAL-380 and QUAL-381.

c. Crew Requirements. A core competent TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

SAC-400 R TACC L

Goal. Conduct TACC planning, embarkation, and emplacement.

Requirement. Plan TACC employment.

Performance Standards. Demonstrate proficiency in the following:

(1) Supervise preparation of the TACC crew brief.
(2) Conduct site survey for determining potential locations for the TACC facility, to include:
    (a) Communications connectivity
    (b) Logistical supportability
    (c) Utilization of existing facilities at site location
    (d) Rear area security considerations
    (e) Proximity to ACE Headquarters
(3) Supervise construction/emplacement of the TACC facility.
(4) Assist in the development of watch schedules/duty rosters to meet operational requirements.
(5) Supervise efficient routing of information within the Current Operations Section.
(6) Review applicable planning documents (OPORD, ATO, ACO, ADP, intentions message, etc.) and provide recommendations to the SWO pertaining to air operations within the AO.
(7) Successfully complete 80% of the above listed standards.

References. Refer to paragraph 111.

Prerequisites

(1) QUAL-380 and QUAL-381.
(2) Completion of the Combat Ready stage of training.
(3) Completion of the MACCS Academic COI (300 level).
(4) Academics: T-12, T-20, T-27, T-36, T-37,T-46 - T-49, T-52, T-53.

External Syllabus Support. None.

SAC-401 R TACC S/L

Goal. Perform as a SAC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Conduct TACC crew brief.
(2) Assist the SWO in supervising the execution of the current ACE battle plan, as required:
    (a) Ensure situation and status displays are current and accurate.
    (b) Evaluate the capability of available assets to fulfill ATO tasking.
    (c) Recommend a COA to overcome ATO deficiencies.
    (d) Update the SWO/COPSO on any unanticipated developments that may impact planned operations.
    (e) Issue and document ATO adjustments approved by the SWO/COPSO.
    (f) Adjudicate with the MAGTF/JFACC any immediate JTARs/ASRs that exceed the current sortie allocation.

(3) Establish liaison and effect coordination with SWOs of subordinate, adjacent, and senior C3 agencies.
(4) Supervise and coordinate proper employment of air assets.
(5) Recommend changes to the SOA/WCS/ADWC within the AO.
(6) Supervise proper and expeditious dissemination of all essential information to all external agencies, as required.
(7) Monitor the reporting of all events.
(8) Supervise the functioning and performance of current operations watch standers.
(9) Advise the SWO on all matters pertinent to the conduct of current operations.
(10) Perform the functions of the SWO, when directed.
(11) Maintain appropriate logs.
(12) Successfully complete 80% of the above listed standards.

References. Refer to paragraph 111.

Prerequisite. SAC-400.

External Syllabus Support. External C3 agencies.

SAC-402 R TACC L/S

Goal. Perform as a SAC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements in SAC-401.
(2) Successfully complete 80% of the above listed standards.

Reference. Refer to paragraph 111.

Prerequisite. SAC-401.

External Syllabus Support. External C3 agencies.

QUAL-480 R E TACC L

Goal. Qualify the TACCO as a SAC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the all requirements identified in SAC-400 and SAC-401.

References. Refer to paragraph 111.

Prerequisite. SAC-402.

External Syllabus Support. External C3 agencies.

2. Personnel Recovery Coordinator (PRC) Training

a. Purpose. To refine the skills required for designation as a PRC and to provide a means for the designated PRC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for PRC qualification.

(b) The Combat Capable TACCO must demonstrate proficiency in coordinating personnel recovery missions by completing the PRC training syllabus.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Completion of the Combat Ready phase of training and attend the Personnel Recovery 101 course. Personnel Recovery 301 is encouraged, but not required.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a PRC billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 400 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

PRC-410 R TACC L

Goal. Conduct Personnel Recovery (PR) planning.

Requirement. Plan establishment of the component RCC

Performance Standards. Perform functions in the following areas:

(1) Prepare the RCC portion of the TACC crew brief.
(2) Assist in the development of the JCSARTF/TRAP plan.
(3) Setup/design the component RCC.
(4) Assist in planning for PR communications.
(5) Assist in the development and preparation of execution checklists, as required.
(6) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, and FMFM 5-4.

Prerequisites

(1) CBC-211, ADC-221, and ACO-231.
(2) Academics: B-04, B-05, B-13, T-12, T-36, T-37.

External Syllabus Support. None.

PRC-411 R, E TACC S/L

Goal. Perform as a PRC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the RCC portion of the TACC crew brief.
(2) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/survivability for PR operations.
(3) Supervise the activation and monitoring of PR communications and execution checklists, as required
(4) Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR) and SAR, Situation Report (SAR SIT)).
(5) Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations.
(6) Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JSRC/adjacent RCCs).
(7) Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL.
(8) Ensure CSAR/TRAP case folders are completed and maintained.
(9) Monitor and update location/availability of CSAR/TRAP assets.
(10) Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.).
(11) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. PRC-410.

External Syllabus Support. External C3 agencies.

QUAL-481 R E TACC L/S

Goal. Qualify the TACCO as a PRC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in PRC-410 and 411.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, and FMFM 5-4.

Prerequisites. QUAL-280, QUAL-281, QUAL-282, PRC-411.

External Syllabus Support. External C3 agencies.

3. Full Combat Qualification Designation

a. Purpose. To designate the TACCO as a SAC and a PRC.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC, who is a WTI graduate. A recommendation for designation will be staffed to the MAW Commander's designated representative.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) Prerequisites

(a) Completion of the appropriate Full Combat Qualification stages of training (QUAL-480 or QUAL-481).

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (2 Events)

DESG-490 TACC

Goal. Designate the TACCO as SAC.

Prerequisite. QUAL-480.

DESG-491 TACC

Goal. Designate the TACCO as PRC.

Prerequisite. QUAL-481.

136. SPECIAL SKILL QUALIFICATION TRAINING

1. Deep Air Operations Manager (DAOM) Training

a. Purpose. To refine skills required for DAOM qualification and to provide a means for the DAOM to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for DAOM qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of deep air support missions in support of the MAGTF deep battle, and functioning as a member of the COS.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. QUAL-280.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

DAOM-600 R TACC L

Goal. Conduct Deep Battle Cell planning.

Requirement. Plan for Deep Air Operations in support of a GCE.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the Deep Battle Cell portion of the TACC crew brief.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, BSM, RAGM, etc.) and assist in the development of the deep battle plan.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Attack Operations planning, as required.
(5) Plan for integration of joint and combined C4ISR assets.
(6) Assist in planning for CSAR/TRAP/CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series and local SOPs.

Prerequisites

(1) QUAL-280.
(2) Academics: A-01, A-02, A-04 - A-09, A-12, A-13, B-07, B-09, B-10, B-14, B-21, B-23, B-24, B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-28 - T-31, T-34, T-35, T-39 - T-44, T-50, T-54 - T-56, T-58, T-64, T-65.

DAOM-601 R TACC S/L

Goal. Perform as a DAOM.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the Deep Battle Cell portion of the TACC crew brief.
(2) Acquire and maintain current information on the status and operations of air missions in support of the deep battle.
(3) Advise the SWO/SAC on the employment of air assets in support of the deep battle.
(4) Coordinate the synchronization of air operations in support of the deep battle within the ATO cycle.
(5) Maintain communications with the DASC/Deep Air Operations Coordinator, MAGTF air officer, the MAGTF fire support coordinator, AOC/BCD, or other agencies, as required.
(6) Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend to the SAC/SWO COAs to support JTAR/ASR/CASEVACs based upon asset availability.
(8) Provide recommendations to the SWO/COC to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.

(e) Coordinate scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure information is kept current and the SAC is updated concerning the deep battle situation.
(10) Coordinate modification of ACMs/FSCMs, as required.
(11) Coordinate with the Intelligence Watch Section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy COAs.
(12) Coordinate with the Ground Watch Section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Monitor equipment status and operational posture of C3 agencies relative to the deep battle, as required.
(14) Review MAGTF/JFC targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least four hours prior to execution.
(15) Coordinate with ACI target intelligence section to receive updated targeting and BHA information.
(16) Receive MISREPS for passage to the Intelligence Watch Section for review and processing.
(17) Recommend to the SWO, in conjunction with the ACI target intelligence section, dynamic re-tasking of air assets in response to emergent targets in the deep battle area.
(18) Provide the SWO the impact on the deep battle of shifting assets during the current ATO.
(19) Recommend changes to or identify preplanned ordnance configurations in response to target changes or weather conditions.
(20) Supervise the conduct of the Deep Battle Cell.
(21) Maintain appropriate logs.
(22) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites

(1) DAOM-600.
(2) Academics: T-37 and T-41.

External Syllabus Support. External C3 agencies.

DAOM-602 R TACC L/S

Goal. Perform as a DAOM.
Requirement. During an exercise

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in DAOM-601.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. DAOM-601.

External Syllabus Support. External C3 agencies.

QUAL-680	R E	TACC	L/S

Goal. Qualify the TACCO as a DAOM.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Requirements identified in DAOM-601.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. DAOM-602.

External Syllabus Support. External C3 agencies.

2. Aviation Command and Control Planner (AC2P) Training

a. Purpose. To refine TACCO skills required for AC2P qualification, and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for AC2P qualification.

(b) The TACCO must demonstrate proficiency in developing the C2 portion of ACE OPORDs/FRAGOs and conducting current planning for C2 aviation requirements/events that occur beyond the current ATO planning cycle.

(c) At least one AC2P performance event will be conducted during an exercise.

(2) Prerequisites. Completion of the Combat Ready stage of training, QUAL-381 and MOS 7202. WTI course is highly recommended.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

AC2P-603 R TACC L/S

Goal. Perform as an AC2P.

Requirement. Plan for C3 integration within Future Plans.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Assist in the development of ACE OPORDs/FRAGOs, ADP/ACP, etc.; based upon support plans prepared by the future plans section.
(2) Plan and coordinate C2 requirements to meet planned aviation needs beyond the ATO timeline, to include:
   (a) Helicopter operations (tasking, routing, escort).
   (b) Projected DAS missions.
   (c) CSAR/TRAP/CASEVAC operations.
   (d) SEAD operations.
   (e) AAW operations.
   (f) AC2W/ISR support requirements.
(3) Coordinate with the ATODO, ORDO and the FOPSO concerning matters pertaining to C2 orders development.
(4) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.
(5) Prepare the C2 portion of the ACE master attack plan in concert with the MAGTF master attack plan:
   (a) Deconflict allocated air assets against the MAGTF prioritized target list.
   (b) Deconflict mission routing with the Integrated Air Defense plan.
   (c) Ensure coverage for all items on the defended assets list.
(6) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4 and local SOPs.

Prerequisites

(1) Completion of the Combat Ready phase of training.
(2) QUAL-381.
(3) Academics: B-04 – B-6, B-15, B-22, T-08, T-20, T-27, T-36, T-37, T-46 – T-49, T-53.

External Syllabus Support. None.

AC2P-604 R E TACC L/S

Goal. Perform as an AC2P.

Requirement. Plan for C3 integration within Future Plans.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) All requirements listed in AC2P-603.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4 and local SOPs.

Prerequisites

(1) AC2P-603.
(2) Completion of the Combat Ready phase of training.

External Syllabus Support. None.

QUAL-681 R E TACC L

Goal. Qualify the TACCO as an AC2P.

Requirement. Plan for C3 integration within Future Plans.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in AC2P-604.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4 and local SOPs.

Prerequisite. AC2P-604.

External Syllabus Support. None.

4. Deep Battle Analyst (DBA) Training

a. Purpose. To develop TACCO skills required for DBA qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for DBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the deep battle.

(c) At least one live DBA performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. QUAL-282 and QUAL-380.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a DBA billet for 24months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

DBA-610 R TACC L/S

Goal. Perform targeting analysis as a DBA.

Requirement. Perform as a DBA during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review MAGTF/JFC targeting guidance and combat assessment data (e.g. BHA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.
(2) Coordinate with the Intelligence Watch Section concerning updated targeting and BHA information.
(3) Coordinate with the Intelligence Watch Section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.
(4) Monitor MAGTF/JFC targeting guidance updates.
(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.
(6) Advise the SWO on the re-allocation of air assets to support the deep battle.
(7) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisites

(1) QUAL-282, QUAL-380.
(2) MAGTF Staff Training Program.
(3) Academics: C-4, C-5, T-25, T-30, T-32, T-36, T-37, T-49, T-53, T-60, T-66.

External Syllabus Support. External C3 agencies.

DBA-611 R TACC L/S

Goal. Monitor Deep Battle Cell activity.

Requirement. During an exercise.

Performance Standards. Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the deep battle.

(2) Analyze in-flight reports/BHAs and coordinate with the intelligence watch section for simultaneous review and processing.
(3) Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle.
(4) Coordinate with the DAOM/DAOC, the Ground Watch Section, the MAGTF air officer, Fire Support Coordinator, and AOC/BCD to maintain situational awareness.
(5) Coordinate with the Deep Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO.
(6) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite. DBA-610.

External Syllabus Support. External C3 agencies.

QUAL-682 R, E TACC L/S

Goal. Qualify the TACCO as a DBA.

Requirement. During an exercise.
Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in DBA 610 and 611.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite. DBA- 611.

External Syllabus Support. External C3 agencies.

5. ATO Plans Officer (ATOPL) Training

a. Purpose. To develop the skills required for ATOPL designation, and to provide a means for the designated ATOPL to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ATOPL qualification.

(b) At the completion of this syllabus, the TACCO must demonstrate proficiency in supervising the ATO planning cell in performing the weaponeering and force application functions in the development of the Marine component master air attack plan.

(2) Prerequisite. QUAL-381.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized FOS will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ATOPL-620	R	TACC	L

Goal. Direct ATO planning.

Requirement. During an exercise.

Performance Standards. Supervise the ATO Planning Section of the TACC in the following:

(1) Receive and review the Marine component master air attack plan.
(2) Prepare the Marine component master air attack plan:
    (a) Sequence and deconflict apportioned air assets against the MAGTF/JFC prioritized target list.
    (b) Weaponeer and package air assets, as required, based on threat, desired level of destruction and timeliness.
    (c) Deconflict simultaneous missions by other MAGTF/JFC lethal/non-lethal assets.
(3) Prepare sortie availability charts.
(4) Prepare aircraft flow sheets.
(5) Separate the Marine Component prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the joint force commander.
(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.
(7) Direct the preparation of the target planning worksheets and submit them to the ATO production cell for input into TBMCS.
(8) Direct preparation of the special instructions (SPINS), and any changes to the ACO and ADP for incorporation into the ATO.
(9) Perform final review of the ATO before release/forwarding.
(10) Ensure excess sortie flow and target planning worksheets are forwarded to the Marine liaison cell in the AOC combat plans division.
(11) Make adjustments to force packaging, routing, weapons load out, or other tactics.
(12) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites

(1) JAC2C.
(2) QUAL-381.
(3) Academics: T-25, T-36, T-37, and T-64

External Syllabus Support. None.

ATOPL-621 R TACC L/S

Goal. Perform as an ATOPL.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements listed in ATOPL-620.
(2) Successfully complete 80% of the above listed standards.

Reference. See ATOPL-620.

Prerequisite. ATOPL-620.

External Syllabus Support. None.

QUAL-683 R E TACC L

Goal. Qualify the TACCO as an ATOPL.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ATOPL-621.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. ATOPL-621.

External Syllabus Support. None.

6. Joint Interface Control Officer (JICO) Training

a. Purpose. To refine the skills required for the JICO qualification and to provide a means for a JICO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for JICO qualification.

(b) JICO-630 and QUAL-684 may occur simultaneously during the JICO course.

(c) JICO and RICO within this document may be interchanged based upon the level at which the duties are performed.

(2) Prerequisites. ICO qualification and completion of both the JTIDS course and the MAJIC course. Network Design course is recommended, but not required.

(3) Refresher Training. Refresher training is required once the JICO has been absent from a JICO/RICO cell billet for 24 months or longer. Upon return to an appropriate billet the JICO/RICO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A JICO/RICO cell in a multi-TADIL environment.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

JICO-630	R	TACC	L

Goal. Perform as a JICO.

Requirement. Complete Multi-TADIL School JICO Course.

Performance Standards. Per JICO Course POI.
Reference. CJCSM 3115.01 JDN Operations.

Prerequisites. ICO qualification and completion of the JTIDS and MAJIC courses. Attendance at JTIDS Network Design course is recommended, but not required.

External Syllabus Support. JICO course quota.

QUAL-684	R, E	TACC	L/S

Goal. Qualify the TACCO as a JICO.

Requirement. Perform as a member of a JICO/RICO cell.

Performance Standards. Demonstrate proficiency in the following:

(1) Interact with the JICO cell TADIL-A/B Manager.
(2) Interact with the JICO cell TADIL-J Manager.
(3) Interact with the Joint TDC.

(4) Plan and implement the AADC/RADC Multi-TADIL Network (MTN).
(5) Successfully complete 80% of the above listed standards.

References. CJCSM 3115.01 JDN Operations and CJCSM 6110.01B Joint Multi-TADIL Operating Procedures (JMTOP).

Prerequisites. JICO course completion.

External Syllabus Support. JICO cell and multi-service exercise/operation.

7. Senior Watch Officer (SWO) Training

a. Purpose. To refine the skills required for SWO qualification and to provide a means for a SWO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for SWO qualification.

(b) The TACCO must demonstrate proficiency in supervising the COS to ensure action is taken to optimize the employment of aviation resources.

(c) At least one live SWO performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. MAW Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Aerospace Command and Control Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified SWO has been absent from a SWO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

SWO-650	R	TACC	S/L

Goal. Perform as a SWO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Supervise the execution of the ATO:
    (a) Ensure situation and status displays are current and accurate.
    (b) Evaluate the capability of available forces to fulfill ATO tasking and recommend a COA to the COPSO when there is a shortfall.
    (c) Keep the COPSO informed on any anticipated developments or problems that may impact planned operations.
    (d) Make adjustments to the published ATO when required by the current situation.
    (e) Issue and document ATO adjustments.
(2) Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, ACMs, communications, ROE, aircraft capabilities/limitations, and munitions capabilities.
(3) Coordinate with SWOs of subordinate, adjacent, and senior air/ground agencies.
(4) Monitor reporting of all events.
(5) Adjudicate with the MAGTF/AOC any immediate JTARs/JTASRs that exceed the current planned allocation.
(6) Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander's situation report, commander's daily briefing, and as directed by the COPSO.
(7) Perform the functions of the COPSO, as required.
(8) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course (JATOPC). The aforementioned courses may be waived based upon performance during a sustained operation.

(2) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

External Syllabus Support. External C3 agencies.

SWO-651	R	TACC	L/S

Goal. Perform as a SWO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) All requirements listed in SWO-650.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. SWO-650.

External Syllabus Support. External C3 agencies.

QUAL-685 R E TACC L/S

Goal. Qualify the TACCO as a SWO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in SWO-650.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. SWO-651.

External Syllabus Support. External C3 agencies.

8. Current Operations Officer (COPSO) Training

a. Purpose. To refine the skills required for the COPSO qualification and to provide a means to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for COPSO

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the COS to ensure action is taken to optimize the employment of aviation resources.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer.

Upon return to an appropriate billet the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

COPS-660	R	TACC	L/S

Goal. Perform as a COPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Supervise preparation and set up of Current Operations.
(2) Supervise execution of the current ATO:
    (a) Evaluate the capability of available assets to fulfill ATO tasking and develop a COA for shortfalls.
    (b) Keep the ACE commander informed of unanticipated developments or problems that may impact planned operations.
    (c) Make adjustments to the published ATO when required by the current situation.
(3) Be familiar with all aspects of air operations, to include force beddown, sortie availability, ACMs, communications, ROE, aircraft capabilities/limitations, and munitions capabilities.
(4) Coordinate with adjacent and senior air/ground agencies.
(5) Provide the FOPSO with a summary of significant problems encountered in executing the current ATO to improve the quality and effectiveness of future ATO tasking.
(6) Ensure backup procedures are prepared and can be rapidly implemented if automated support systems fail.
(7) Prepare reports from Current Operations for the commander’s situation report, commander’s daily briefing, and as directed by the ACE commander.
(8) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Aerospace Command and Control Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(2) MAGTF Staff Training Program.
(3) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

External Syllabus Support. External C3 agencies.

QUAL-686 R E TACC L/S

Goal. Qualify the TACCO as a COPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in COPS-660.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

Prerequisite. COPS-660.

External Syllabus Support. External C3 agencies.

9. Future Operations Officer (FOPSO) Training

a. Purpose. To refine the skills required for FOPSO qualification and to provide a means to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for FOPSO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the TACC FOS.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized FOS is required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

FOPS-661	R	TACC	L

Goal. Supervise the conduct of the FOPSO.

Requirement. During an exercise.

Performance Standards. Supervise the FOS of the TACC in the following areas:

(1) Draft preliminary targeting guidance for presentation to the ACE targeting board when the ACE is employed as a maneuver unit.
(2) Supervise the preparation and set up of Future Operations.
(3) Issue the approved planning guidance and direct and monitor development of the ATO based on that guidance.
(4) Develop the Marine component MAAP.
(5) Prepare the air allocation request (ALLOREQ)/air support request (AIRSUPREQ) messages, as required.
(6) Prepare the sortie allotment (SORTIEALLOT) message (if JFACC).
(7) Develop the ACE apportionment recommendation.
(8) Review results from previous air operations and ensure applicable tactics or procedures are developed as the dynamic combat situation requires (combat assessment).
(9) Consult with the COPSO to determine significant problems in managing the current ATO to improve the quality and effectiveness of future ATO tasking.
(10) Prepare future operations reports for the commander’s situation report, daily briefings, and as directed by the ACE commander.
(11) Ensure backup procedures are prepared and can be rapidly implemented if automated planning systems fail.
(12) Attend briefings to the ACE commander concerning upcoming operations to be included in the ATO.
(13) Keep the FOS informed of JFC/Marine component/ACE commander’s guidance, intent, and objectives.
(14) Receive (transition) the developed ACE support plan and provide it to the Orders Development Section as direction to stand up an OPT to prepare a detailed ACE OPORD/FRAGO.
(15) Ensure all FOPS activities are in compliance with JFC/Marine component battle rhythm.
(16) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Aerospace Command and Control Course. The aforementioned courses may be waived based upon performance during a sustained operation.
(2) MAGTF Staff Training Program.
(3) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

QUAL-687 R E TACC L/S

Goal. Qualify the TACCO as a FOPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in FOPS-661.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

Prerequisite. FOPS-661.

10. Future Plans Officer (FPNO) Training

a. Purpose. To refine the skills required for FPNO qualification and to provide a means for the FPNO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for FPNO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the Marine component aviation battle planning within the Future Plans section.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, Joint Air Tasking Order Process Course, and School of Advanced Warfighting (or other Service equivalent). The aforementioned courses may be waived based on performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized Future Plans section is required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. A completed academic training event can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

FPNO-662	R	TACC	L/S

Goal. Supervise the conduct of future planning.

Requirement. During an exercise.

Performance Standards. Supervise the Future Plans Section of the TACC in the following areas:

(1) Maintain close and continuous liaison with Marine component Future Plans.
(2) Conduct deliberate planning for Marine component OPLANs and follow-on MAGTF missions associated with the current operations.
(3) Develop aviation COAs for each follow-on MAGTF mission under development.
(4) Develop aviation estimates of supportability for each follow-on MAGTF mission under development.
(5) Develop and refine OPLANs/OPORDs associated with each follow-on MAGTF mission.
(6) Provide detailed and fully integrated deployment, employment, mobilization, and sustainment plans for follow-on MAGTF mission.
(7) Prepare necessary briefs for COA and/or supportability decision briefs.
(8) Assist Future Ops, as required, after the ACE Support Plan is transitioned to the operational planning team (OPT) for OPORD/FRAGO detailed preparation.
(9) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, Joint Aerospace Command and Control Course, and School of Advanced Warfighting (or other Service equivalent). The aforementioned courses may be waived based on performance during a sustained operation.
(2) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32,

T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

(3) MAGTF Staff Training Program.

External Syllabus Support. None.

QUAL-688 R E TACC L/S

Goal. Qualify the TACCO as a FPNO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in FPNO-662.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

Prerequisite. FPNO-662.

External Syllabus Support. None.

11. Special Skills Designations.

a. Purpose. To designate the TACCO as a DAOM, DBA, ATOPLO, AC2P, JICO, SWO, COPSO, FOPSO, and FPNO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) Prerequisites. Applicable QUAL-68X.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (9 Events)

DESG-690 TACC

Goal. Designate the TACCO as DAOM.

Prerequisite. QUAL-680.

DESG-691 TACC

Goal. Designate the TACCO as DBA.

Prerequisite. QUAL-681.

DESG-692 TACC

Goal. Designate the TACCO as ATOPL.

Prerequisite. QUAL-682.

DESG-693 TACC

Goal. Designate the TACCO as AC2P.

Prerequisite. QUAL-683.

DESG-694 TACC

Goal. Designate the TACCO as JICO.

Prerequisite. QUAL-684.

DESG-695 TACC

Goal. Designate the TACCO as SWO.

Prerequisite. QUAL-685

DESG-696 TACC

Goal. Designate the TACCO as COPSO.

Prerequisite. QUAL-686.

DESG-697 TACC

Goal. Designate the TACCO as FOPSO.

Prerequisites. QUAL-687.

DESG-698 TACC

Goal. Designate the TACCO as FPNO.

Prerequisite. QUAL-688.

140. SPECIAL TRAINING REQUIREMENTS. None.

150. EXPENDABLE ORDNANCE REQUIREMENTS. None.

160. PROFICIENCY INTERVALS. Tables 1-14, 1-15, 1-16, and 1-17 contain the proficiency intervals for the Combat Readiness, Combat Qualification, Full-Combat Qualification and Special Skills training levels.

Table 1-14.--TACCO Proficiency Interval for the Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	0.4			X		L
	201	24	0.4	X		X		L
	202	24	0.4			X		L/S
	203	24	0.4			X		L/S
	204	24	0.6			X		L/S
	205	24	0.4			X		L/S
	206	24	0.4			X		L/S
CBC	210	24	1			X		L
	211	24	1			X		S/L
	212	24	1			X		L/S
ADC	220	24	1			X		L
	221	24	1			X		S/L
	222	24	1			X		L/S
ACO	230	24	1			X		L

Table 1-14.--TACCO Proficiency Interval for the Combat Readiness Training Level--Continued.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
ACO	231	24	1			X		S/L
	232	24	1			X		L/S
QUAL	280	36	1			X	X	L
	281	36	1			X	X	L
	282	36	1			X	X	L
DESG	290		0					
	291		0					
	292		0					

Table 1-15.--TACCO Proficiency Interval for the Combat Qualification Training Level.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
CBA	300	24	1			X		L/S
	301	24	1			X		L/S
AAP	310	24	1			X	X	L
	311	24	1			X	X	L
	312	24	2			X	X	L
ICO	320	12	1.5			X		L
	321	12	1.5			X		S/L
	322	12	2			X		L/S
QUAL	380	36	3			X	X	L
	381	36	3			X	X	L/S
	382	36	3			X	X	L
DESG	390		0					
	391		0					
	392		0					

Table 1-16.--TACCO Proficiency Interval for the
Full Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
SAC	400	24	0.5			X		L
	401	24	0.5			X		S/L
	402	24	1			X		L/S
PRC	410	24	0.5			X		L
	411	24	0.5			X	X	S/L
QUAL	480	36	1			X	X	L
	481	36	1			X	X	L/S
DESG	490		0					
	491		0					

Table 1-17.--TACCO Proficiency Interval for the
Special Skills Training Level.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
DAOM	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S
AC2P	603	24	0			X		L/S
	604	24	0			X	X	L/S
DBA	610	24	0			X		L/S
	611	24	0			X		L/S
ATOPL	620	24	0			X		L
	621	24	0			X		L/S
JICO	630	24	0			X		L
SWO	650	24	0			X		S/L
	651	24	0			X		L/S
COPS	660	24	0			X		L/S
FOPS	661	24	0			X		L/S
FPNO	662	24	0			X		L/S
QUAL	680	36	0			X	X	L/S

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
	681	36	0			X	X	L

Table 1-17.--TACCO Proficiency Interval for the Special Skills Training Level—Continued.

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
	682	36	0			X	X	L/S
	683	36	0			X	X	L
	684	36	0			X	X	L/S
	685	36	0			X	X	L/S
	686	36	0			X	X	L/S
	687	36	0			X	X	L/S
	688	36	0			X	X	L/S
DESG	690		0					
	691		0					
	692		0					
	693		0					
	694		0					
	695		0					
	696		0					
	697		0					
	698		0					

170. EVENT UPDATE CHAINING. Tables 1-18 and 1-19 contain the event update chaining for the TACCO.

Table 1-18.--TACCO Combat Ready and Combat Qualified Training Event Update Chaining.

EVENTS	EVENTS UPDATED
200	
201	
202	
203	
204	
205	
206	
210	
211	200,203,204,205,206,210
212	211
220	
221	200,204,206,220
222	221
230	
231	230
232	231

EVENTS	EVENTS UPDATED
280	212
281	222
282	232
290	

Table 1-18.--TACCO Combat Ready and Combat Qualified Training Event Update Chaining--Continued.

EVENTS	EVENTS UPDATED
291	
292	
300	212
301	
310	
311	
312	
320	
321	
322	
380	300,301
381	310,311,312
382	320,321,322
390	
391	
392	

Table 1-19.--TACCO Full-Combat and Special Skills Training Event Update Chaining.

EVENTS	EVENTS UPDATED
400	
401	400
402	401
410	
411	410
480	280,281,282,380,381,402
481	411
490	
491	

CHAPTER 2

TACTICAL AIR COMMAND CENTER ENLISTED OPERATOR (TACCEO) (7234, 7242, 7236)

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2-8 COMBAT QUALIFICATION TRAINING LIST 2-13

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CHAPTER 2

TACTICAL AIR COMMAND CENTER ENLISTED OPERATOR (TACCEO) (7234, 7242, 7236)

200. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop unit warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective T&R program is the first step in providing the MAGTF commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. By using these tools, unit training managers can construct and execute an effective training plan, which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training (SAT) to satisfy the training requirements of commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the SAT used in T&R development and Marine Corps UTM principles.

3. The Unit T&R and the Individual T&R programs are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills that enable units to satisfy the requirements.

201. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills that support the Mission Essential Tasks (MET) derived from T/O mission statements, which are realistically expected to be assigned in combat.

2. Mission. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. Mission Essential Tasks

a. Develop, disseminate, and manage the execution of the Marine component Air Tasking Order (ATO).

b. Produce and disseminate aviation tailored intelligence and CI required for decision-making during the planning and execution of air operations.

c. Maintain and disseminate information on friendly situation, including aviation and ground combat information essential to the air effort.

d. Plan and coordinate the employment of ACE communications electronics information networks and means.

e. Plan, coordinate, and manage employment of all aircraft and surface-to-air weapons, agencies, and sensors within or in support of the assigned area of operations.

f. Establish and disseminate air defense warning conditions, weapons control status, and states of alert to all major elements of the MAGTF/joint/combined force.

g. Plan and coordinate air operations between the MACCS and command and control agencies external to the MAGTF, to include joint/combined/host nation agencies.

h. Develop and promulgate Air Operations Plans and Orders.

i. Plan and supervise airspace coordination.

j. Analyze and evaluate the results of air operations.

k. Provide pertinent emission control information within the area of operations.

l. Coordinate information flow to facilitate efficient planning and execution of aviation operations.

m. Support expeditionary operations.

n. Conduct TACC operations in an NBC environment.

o. Plan, coordinate, and direct personnel recovery operations as the Marine component Rescue Coordination Center.

4. TACC Core Capabilities

a. Current Operations Section (COS). A core capable TACC COS is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and combat information processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform these functions during contingency/combat operations, assuming all crew positions are manned and supporting MOSs are at 80%. Sufficient TADIL, voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions are not filled, critical functions performed at the vacant position(s) will be degraded. The notional COS core capable crew of the baseline TACC consists of 60 personnel as depicted in table 2-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 2-1.--Notional Current Operations Section.

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/ TDC Cell
Current Ops Officer	Ground Watch Officer	Intel Watch Officer	Senior Watch Officer	Close Battle Coord	Deep Battle Coord	Air Defense Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Officer	C2 Systems Watch Officer	Interface Coord Officer
Asst. Current Ops Officer	Fire Support Officer	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	Recorder	Recorder/ Plotter	Deep Battle Analyst (3)	Recorder	C2 Maint Coord	Radio Watch NCO	Track Data Coord
Ops Chief	Engineer Officer	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder/ TBMCS Operator (2)		Logistics Watch Officer	Data/ Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Officer	Wireman	
	IOS Operator			Recorder (2)	Plotter					Force Protection Watch Officer	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Officer		

b. Future Operations Section (FOS). A core capable TACC FOS plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed at the vacant position(s) will be degraded. The notional FOS core capable crew of the baseline TACC consists of 44 personnel as depicted in table 2-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 2-2.--Notional Future Operations Section.

OPS ADMIN SECTION	GROUND WATCH SECTION	ORDERS DEVELOPMENT SECTION	ATO DEVELOPMENT SECTION	INTELLIGENCE WATCH SECTION
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. Future Plans Section. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed at the vacant position(s) will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 2-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 2-3.--Notional Future Plans Section.

OPS ADMIN SECTION	GROUND WATCH SECTION	ORDERS DEVELOPMENT SECTION	ATO DEVELOPMENT SECTION	INTELLIGENCE WATCH SECTION
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. Billet-Syllabus Qualification Matrix. Tables 2-4 and 2-5 contain a billet-syllabus qualification matrix for the current and future operations sections.

Table 2-4.--TACC Current Operations Section
Billet-Syllabus Qualification Matrix.

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
CURRENT OPERATIONS	Current Operations Officer (COPSO)	Current Operations Officer (COPSO)
	Senior Watch Officer (SWO)	Senior Watch Officer (SWO)
WATCH SECTION	Senior Air Coordinator (SAC)	Senior Air Coordinator (SAC)
	Crew Chief (CC)	TACC Crew Chief (TACC-CC)
	Recorder	Recorder (RCDR)
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Deep Air Operations Manager (DAOM)	Deep Air Operations Manager (DBC)
	UAV Tasker	Air Battle Tasker (ABT)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Rotary Wing Tasker	Air Battle Tasker (ABT)
	UAV Tasker	Air Battle Tasker (ABT)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (CBC)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
	Rotary Wing Recorder	Recorder (RCDR)
	Rotary Wing Plotter	Plotter (PLTR)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (ADC)
	Air Defense Recorder	Recorder (RCDR)
	Air Defense Plotter	Plotter (PLTR)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer(ACO)
	Airspace Plotter/Recorder	Plotter (PLTR) Recorder (RCDR)
JOINT INTERFACE CONTROL OFFICER (JICO)CELL	Joint Interface Control Officer (JICO)	Joint Interface Control Officer (JICO)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Control Officer (ICO)	Interface Control Officer (ICO)

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Track Data Coordinator (TDC)	Track Data Coordinator (TDC)

Table 2-4.--TACC Current Operations Section
Billet-Syllabus Qualification Matrix--Continued.

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Air Battle Analyst (ABA)
	Deep Battle Analyst	Air Battle Analyst (ABA)
	Recorder	Recorder (RCDR)
SAR COORDINATION CELL	SRCC Officer	SRCC
	SRCC Recorder	Recorder (RCDR)

Table 2-5.--TACC Future Operations Section
Billet-Syllabus Qualification Matrix.

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Operations Officer (FOPSO)	Future Operations Officer (FOPSO)
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (ATODO)
ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (ATOPLO)
	Strike Planner	ATO MSN Planner (ATOMP)
	EW Planner	ATO MSN Planner (ATOMP)
	Support Planner	ATO MSN Planner (ATOMP)
	UAV Planner	ATO MSN Planner (ATOMP)
	Airspace Control Measures Planner	ATO/ACO Planner (AAP)
	Air Defense Planner	ATO/ACO Planner (AAP)
	Air Support Planner	ATO/ACO Planner (AAP)
ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (ATOPRO)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A

Table 2-5.--TACC Future Operations Section
Billet-Syllabus Qualification Matrix--Continued.

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (ORDO)
	Strike Plans Officer	Orders Development Planner (ORDP)
	Support Plans Officer	Orders Development Planner (ORDP)
	C2 Plans Officer	AVN C2 Planner (AC2P)

Table 2-6.--TACC Future Plans Section
Billet-Syllabus Qualification Matrix.

FUTURE PLANS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Plans Officer	Future Plans Officer (FPNO)
	Senior Planner	N/A
	Airspace/Air Defense Planner	N/A
	Assault Support Planner	N/A
	Strike Support Planner	N/A
	Aviation Support Planner	N/A

202. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. Combat Capable Training. The Combat Capable phase of training is accomplished at the Marine Air Control Squadron, Low Altitude Air Defense Battalion, or Marine Air Support Squadron through on the job training within a Marine's primary MOS. A prerequisite to personnel being assigned to the Tactical Air Command Center is the completion of the Combat Qualification Training (300 level) Syllabus for their respective MOS.

2. Combat Ready Training. Table 2-7 contains a listing of the combat ready training events and associated page numbers.

Table 2-7.--Combat Ready Training List.

EVENT	GOAL	PAGE
SYS-200	Operate communications equipment	2-28
SYS-201	Setup a TACC for operations	2-29
SYS-202	Conduct TACC operations in an NBC environment	2-29
SYS-203	Setup/Operate the IOW system	2-29
SYS-204	Setup/Operate TBMCS	2-30
SYS-205	Setup/Operate AFATDS	2-30
SYS-206	Setup/Operate MSCS	2-31
SYS-207	Configure National Systems Information	2-31
SYS-208	Setup/Operate IOS	2-31
PLTR-210	Perform IOW operator functions	2-33
PLTR-211	Perform AFATDS operator functions	2-33
PLTR-212	Create manual plotting displays	2-34
PLTR-213	Conduct manual plotting	2-34
RCDR-220	Perform as a Recorder/TBMCS operator	2-35
RCDR-221	Perform as an ADR	2-36
RCDR-222	Perform as an CBR/DBR	2-36
QUAL-280	Qualify the TACCEO as a PLTR	2-34
QUAL-281	Qualify the TACCEO as a RCDR	2-37
DESG-290	Designate the TACCEO as a PLTR	2-38
DESG-291	Designate the TACCEO as a RCDR	2-38

3. Combat Qualification Training. Table 2-8 contains a listing of the combat readiness training events and associated page numbers.

Table 2-8.--Combat Qualification Training List.

EVENT	GOAL	PAGE
TDC-300	Perform TDC functions; serial link	2-39
TDC-301	Perform TDC functions; netted link	2-39
TDC-302	Perform TDC functions; nodeless link	2-40
TDC-303	Perform TDC functions; exercise	2-41
ADC-310	Perform as an ADC	2-42
CBC-320	Perform as a CBC	2-44
QUAL-380	Qualify the TACCEO as a TDC	2-41
DESG-390	Designate the TACCEO as a TDC	2-45

4. Full Combat Qualification Training. Table 2-9 contains a listing of the full combat qualification training events and associated page numbers.

Table 2-9.--Full Combat Qualification Training List.

EVENT	GOAL	PAGE
ADC-400	Conduct Air Defense planning	2-46
ADC-401	Perform as an ADC	2-47
CBC-410	Conduct Close Battle Cell planning	2-48
CBC-411	Perform as a CBC	2-49
CC-420	Perform Crew Chief functions	2-50
CC-421	Prepare the TACC for embarkation and set up	2-50
CC-422	Perform as a Crew Chief	2-51
QUAL-480	Qualify the TACCEO as an ADC	2-47
QUAL-481	Qualify the TACCEO as a CBC	2-49

Table 2-9.--Full Combat Qualification Training List--Continued.

EVENT	GOAL	PAGE
QUAL-482	Qualify the TACCEO as a Crew Chief	2-51
DESG-490	Designate the TACCEO as an ADC	2-52
DESG-491	Designate the TACCEO as a CBC	2-52
DESG-492	Designate the TACCEO as a Crew Chief	2-52

5. Instructor Qualification Training. None.

6. Special Skills Training And Designation. Table 2-10 contains a listing of the special skills training and designations training events and associated page numbers.

Table 2-10.--Special Skills Training and Designation List.

EVENT	GOAL	PAGE
PRC-600	Conduct Personnel Recovery Planning	2-53
PRC-601	Perform as a PRC	2-54
ICO-610	Develop planning documents	2-55
ICO-611	Perform as an ICO	2-56
ICO-612	Perform as an ICO	2-57
DAOM-620	Conduct Deep Battle Cell Planning	2-58
DAOM-621	Perform as a DAOM	2-59
DAOM-622	Perform as a DAOM	2-60
JICO-630	Perform as a JICO	2-61
QUAL-680	Qualify the TACCEO as a PRC	2-54
QUAL-681	Qualify the TACCEO as an ICO	2-57
QUAL-682	Qualify the TACCEO as a DAOM	2-60
QUAL-683	Qualify the TACCEO as a JICO	2-62
DESG-690	Designate the TACCEO as a PRC	2-63
DESG-691	Designate the TACCEO as an ICO	2-63
DESG-692	Designate the TACCEO as a DAOM	2-63
DESG-693	Designate the TACCEO as a JICO	2-63

7. Operator Core Skills. Core skills are depicted in table 2-11 and directly support the METL for each unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 2-11.--Core Skills.

	CORE TASKS/SKILLS				CORE AND CORE PLUS TASKS/SKILLS		
METL	SYS	PLTR	RCDR	TDC	CC	ADC	CBC
A	200 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481

Table 2-11.--Core Skills--Continued.

	CORE TASKS/SKILLS				CORE AND CORE PLUS TASKS/SKILLS		
METL	**SYS**	**PLTR**	**RCDR**	**TDC**	**CC**	**ADC**	**CBC**
B	200 202 203 204 205 207 208	210 212 213 280	220 221 222 281		420 422 482	310 400 401 480	320 410 411 481
C	200 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
D					421	400	410
E	200 201 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
F	200 202 203 204 205 206 207 208	210 211 212 213 280	220 221 281	300 301 302 303	420 421 422 482	310 400 401 480	
G	200 201 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
H	200 202 204 205		220 221 222 281		420 421 422 482	310 400 401 480	320 410 411 481
I	200 202 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
J	200 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
K	200 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
L	200 201 202 203 204 205 206 207 208	210 211 212 213 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481

Table 2-11.--Core Skills--Continued.

	CORE TASKS/SKILLS				CORE AND CORE PLUS TASKS/SKILLS		
METL	**SYS**	**PLTR**	**RCDR**	**TDC**	**CC**	**ADC**	**CBC**
M	200 201 202 203 204 205 206 207 208	210 211 212 213 214 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
N	200 201 202 203 204 205 206 207 208	210 211 212 213 214 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481
O	200 201 202 203 204 205 206 207 208	210 211 212 213 214 280	220 221 222 281	300 301 302 303	420 421 422 482	310 400 401 480	320 410 411 481

203. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding Officers will ensure this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation 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 those critical skills required in combat is essential.

3. Commanders shall ensure all tactical training is conducted to T&R standards, as outlined in MCO P3500.14. All syllabus events shall be tailored to meet T&R requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be over emphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors that all commanders must address include, but are not limited to the following:

a. Efficiency. Time and resources expended are measurements for training efficiency. Commanders must ensure all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. Individual Differences. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. Decentralization of Training. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. 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.

6. Risk Management. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. MACCS Integrated System Training. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated air command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

204. TACTICAL AIR COMMAND CENTER ENLISTED OPERATOR TRAINING PROGRESSION PHILOSOPHY. The purpose of this syllabus is to develop and refine those skills required for the Tactical Air Command Center Enlisted Operator (TACCEO) to function as a Track Data Coordinator (TDC), Air Defense Coordinator (ADC), Close Battle Coordinator, and/or Crew Chief (CC) within a core capable TACC Current Operations crew. The progression of the TACCEO through the syllabus has been tailored towards that end. It is incumbent upon the squadron commander to ensure each event is completed in accordance with performance standards established for the event.

205. TACCEO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCEO is depicted in Figure 2-1.

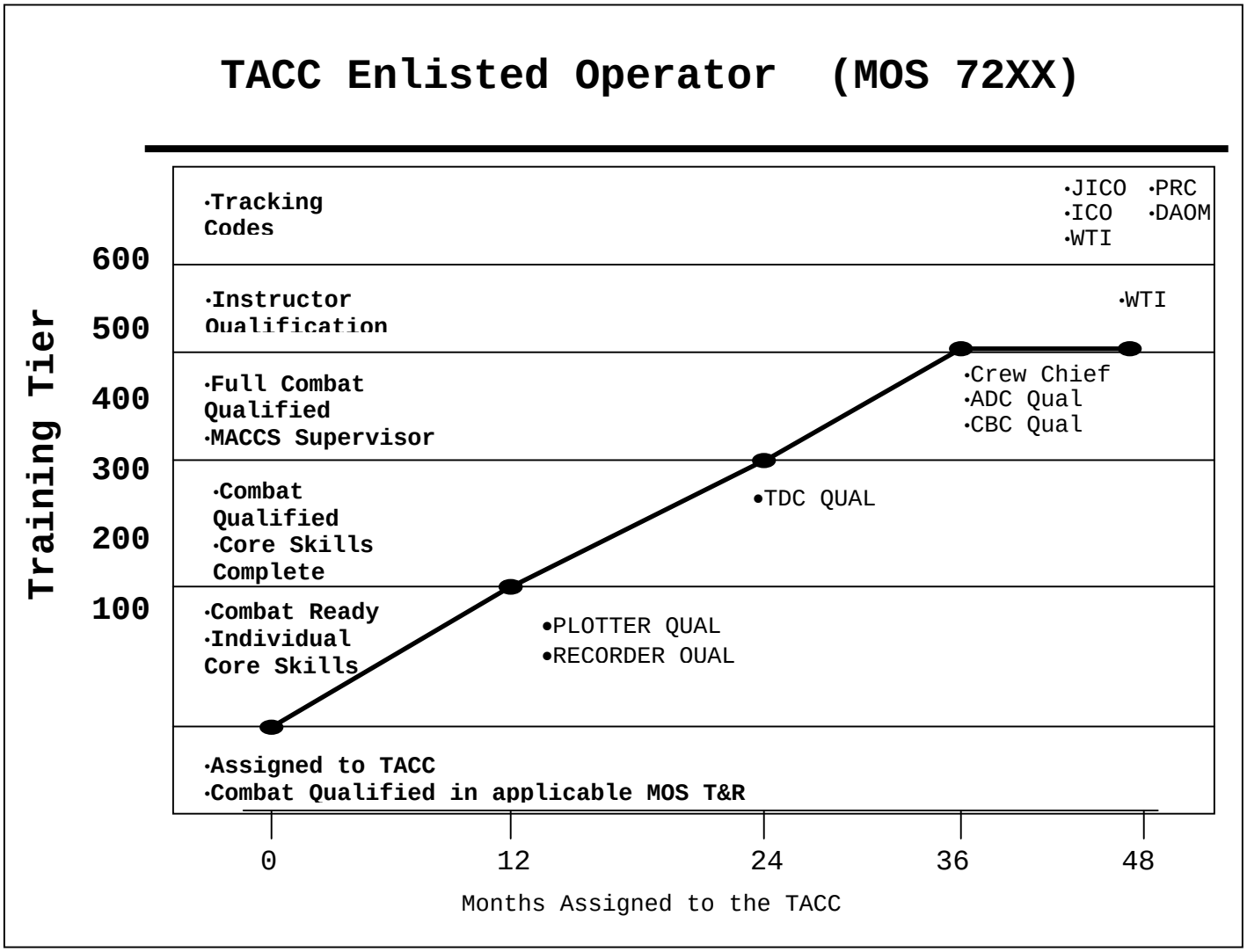

Figure 2-1.--TACCEO Training Progression Model.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those “accession” qualifications an individual has received after completion of an MOS-qualifying school. The highest tier of the progression model contains those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable phase is normally accomplished at the completion of individual’s initial MOS skills training. With successful completion of the Combat Capable phase, unit personnel are assigned their basic MOS qualification and progress to the Combat Ready phase.

4. The Combat Ready phase delineates qualifications normally made available to inexperienced personnel. This phase takes individuals who have completed initial MOS skills training and makes them proficient in core competencies. With successful completion of the Combat Ready phase, unit personnel progress to the Combat Qualification phase.

5. The Combat Qualification phase is the portion of the model that produces combat leaders and fully qualified crewmembers. Personnel trained in the Combat Qualification phase are those whom a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full Combat Qualification phase contains special skills that are not prerequisite to combat qualification, or the ability to function as combat leaders. A certain number of Full Combat qualified individuals must be maintained to accomplish assigned missions or tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit’s training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear training progression model and an emphasis on the qualifying "Combat Ready" and "Combat Qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

206. PROGRAMS OF INSTRUCTION (POI) FOR TACCEO. There is no formal schools training provided for TACC personnel.

207. MISSION QUALIFICATIONS/DESIGNATIONS

1. Plotter (PLTR) Qualification. A TACCEO is PLTR qualified after completing required 200 level events of the T&R syllabus. The TACCEO shall be certified as a PLTR by a designated SAC and designated PLTR qualified by the MAW commander’s representative. A designation letter shall be entered into the officer’s MACCS Performance Record.

2. Recorder (RCDR) Qualification. A TACCEO is RCDR qualified after completing required 200 level events of the T&R syllabus. The TACCEO shall be certified as an RCDR by a designated SAC and designated RCDR qualified by the MAW commander’s representative. A designation letter shall be entered into the officer’s MACCS Performance Record.

3. Track Data Coordinator (TDC) Qualification. A TACCEO is TDC qualified after completing required 300 level events of the T&R syllabus. The TACCEO shall be certified as a TDC by a designated SAC and designated TDC qualified by the MAW commander’s representative. A designation letter shall be entered into the officer’s MACCS Performance Record.

4. Air Defense Coordinator (ADC) Qualification. A TACCEO is ADC qualified after completing required 400 level training events of the T&R syllabus. The MACCS TACCEO shall be certified as an ADC by a designated SAC and designated ADC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

5. Close Battle Coordinator (CBC) Qualification. A TACCEO is CBC qualified after completing required 400 level training events of the T&R syllabus. The TACCEO shall be certified as a CBC by a designated SAC and designated CBC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record

6. TACC Crew Chief (TACC-CC) Qualification. A TACCEO is TACC-CC qualified after completing required 400 level events of the appropriate T&R syllabus. The TACCEO shall be certified as a TACC-CC by a designated SAC and designated TACC-CC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

7. Interface Control Officer (ICO) Qualification. A TACCEO is ICO qualified after completing required 600 level events of the T&R syllabus. The TACCEO shall be certified as a ICO by a designated SAC and designated ICO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

8. Joint Interface Control Officer (JICO) Qualification. A TACCEO (MOS 72XX) is JICO qualified after completing required 600 level events of the T&R syllabus. The JICO shall be certified by a designated JICO and designated JICO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

9. Deep Air Operations Manager (DAOM) Qualification. A TACCEO (MOS 72XX) is DAOM qualified after completing the required training events of the appropriate T&R syllabus. The TACCEO shall be certified as a DAOM by a designated SAC and designated DAOM qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record.

10. Personnel Recovery Coordinator (PRC) Qualification. A TACCEO (MOS 72XX) is PRC qualified after completing required training events of the appropriate T&R syllabus. The TACCEO shall be certified as a PRC by a designated SAC and designated PRC qualified by the MAW commander's representative. A designation letter shall be entered into the officer's MACCS Performance Record

210. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 2-12 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 2-12.--Recommended T&R Lectures.

LECTURE CODE	LECTURE TITLE	SPONSOR
	200 LEVEL: COMBAT READY TRAINING	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
A-03 A-04 A-05 A-06 A-07 A-08	The Six Functions of Marine Aviation v Control of Aircraft & Missiles v Offensive Air Support v Assault Support v Electronic Warfare v Aerial Reconnaissance v Anti-Air Warfare	 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	Local MACG
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	Local MACG MAW
A-14	MACCS Communications	MAWTS-1
A-15	TBMCS Overview	MAWTS-1
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 LEVEL: COMBAT QUALIFIED TRAINING	
B-01	Missile and UAV Threat to MAGTF	MAWTS-1
B-02	Fixed Wing Threat to the MAGTF	MAWTS-1
B-03	Rotary Wing Threat to the MAGTF	MAWTS-1
B-04	REC Threat	MAWTS-1
B-05	Armor Threat to the MAGTF	MAWTS-1
B-06	AOR Specific Threat & OP PLANS	Local MACG
B-07 B-08 B-09 B-10 B-11 B-12 B-13	MACCS Agencies v TACC v TAOC v DASC v ATC Detachment v LAAD Bn v MWCS	 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1
B-14	AC2W-ISR	MAWTS-1
B-15	Multi TADIL Network	MAWTS-1
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1
B-18	Airspace Planning/Management (Combat Airspace)	Local MACG MAW
B-19	Tanker Management	MAWTS-1

Table 2-12.--Recommended T&R Lectures--Continued.

LECTURE CODE	LECTURE TITLE	SPONSOR
B-20	Armed Reconnaissance	MAWTS-1
B-21	UAV Overview	MAWTS-1
B-22	Link Architecture and Procedures	Local MACG MAW
B-23	Introduction to Personnel Recovery	MAWTS-1
B-24	NEO Execution	MAWTS-1
B-25	Execution Checklist	MAWTS-1

	400 LEVEL: FULL COMBAT QUALIFIED TRAINING	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	Local MACG MAWTS-1
C-02	Joint Air Operations	MAWTS-1
C-03	TBM and CM Defense	MAWTS-1
C-04	JTAO Procedures	MCCES
C-05	Law of War and ROE	MAWTS-1
C-06	SIS Aircraft	MAWTS-1

(*) The lecture code is standardized throughout all MACCS related syllabi, and is used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 2-13 is recommended for personnel assigned to the TACC.

Table 2-13.--TACC Academic Syllabus.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)	MCCES	X	X	
T-06	ATOs AND ACOs		X	X	X
T-07	CBC RESPONSIBILITIES		X	X	
T-08	IBS/CTT	MAWTS-1	X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPS		X	X	X
T-14	JOINT AIR COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP	MAWTS-1	X	X	X
T-18	TBMCS CURRENT OPERATIONS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPS MESSAGES	MAWTS-1	X		
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X

Table 2-13.--TACC Academic Syllabus--Continued.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-23	EMERGENCY PROCEDURES		X	X	
T-24	ELECTRONIC PROTECTION CAPABILITIES	MAWTS-1	X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO C2W		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)	MCCES	X	X	X
T-32	MANUAL BACKUP TACC PROCEDURES		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDERS		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	JOINT MUNITIONS EFFECTIVENESS MANUAL (JMEMS)	MAWTS-1	X	X	X
T-37	NATIONAL SYSTEMS TASKING PROCESS/CYCLE	MAWTS-1	X	X	
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL	MCCES	X	X	X
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	IMINT	MAWTS-1	X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-45	LMS-16				
T-46	TACC EMPLOYMENT & PLANNING CONSIDERATIONS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	AOC OVERVIEW	C2WS	X	X	X
T-51	IOS IOS/IOW OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM	MAWTS-1	X	X	X
T-55	GMF OVERVIEW	MAWTS-1	X		
T-56	BASIC WEATHER		X	X	X
T-57	AFATDS		X	X	X
T-58	JOINT AIR OPERATIONS	MAWTS-1	X		
T-59	TBMCS FUTURE OPERATIONS APPLICATIONS			X	
T-60	INFORMATION MANAGMENT AND CONNECTIVITY	MAWTS-1	X	X	
T-61	ELECTRONIC WARFARE COORDINATION CENTER	MAWTS-1	X	X	
T-62	ELECTRONIC TARGETING AND ATTACK	MAWTS-1	X	X	
T-63	ALLIED SAMS	MAWTS-1	X	X	
T-64	ATARS EMPLOYMENT	MAWTS-1	X	X	
T-65	OAS PGMS	MAWTS-1	X	X	
T-66	ENVIRONMENTAL EFFECTS OF ELECTROMAGNETIC ENERGY	MAWTS-1	X	X	

3. External academic courses of instruction available to support the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course(MAJIC)	JMTS
JTIDS Course	JMTS
JTIDS Network Design & System Management (JNDSM)	JMTS
Joint Air Tasking Order Process Course (JATOPC)	C2WS
IOS Operator's Course	EWTG
Military Airspace Management Course	Keesler, AFB
Personnel Recovery 101	JPRA
Personnel Recovery 301	JPRA
JICO Course	JMTS
WTI Course	MAWTS-1
Marine AFATDS Course	Ft. Sill, OK

211. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

PUBLICATION #	TITLE
ACP-125	Allied Communication Publication
CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	TBMCS Software User's Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination.
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JtDivO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol II	Threat Reference Manual
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1F	Targeting
MCRP 3-16.8B	MSP for the Joint Application of Firepower (J-FIRE)
MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations
MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook

MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (IOS)
TSC-125-96-U	IOS Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

220. LIVE/SIMULATOR EVENT TRAINING: TACCEO

1. COMBAT CAPABLE TRAINING

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT MACS/MASS/LAAD BN		60.00%

2. COMBAT READY TRAINING

STAGE	EVENTS	PERCENT
SYSTEM TRAINING	9	10.00%
PLOTTER TRAINING	5	5.00%
RECORDER/BME OPERATOR TRAINING:	4	8.00%
TOTALS:	**18**	**23.00%**

3. COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
TRACK DATA COORDINATOR TRAINING	5	10.00%
AIR DEFENSE COORDINATOR TRAINING	1	1.00%
CLOSE BATTLE COORDINATOR TRAINING	1	1.00%
TOTALS:	**7**	**12.00%**

4. FULL COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
CREW CHIEF TRAINING	4	3.00%
AIR DEFENSE COORDINATOR TRAINING	3	1.00%
CLOSE BATTLE COORDINATOR TRAINING	3	1.00%
TOTALS:	**10**	**5.00%**

5. INSTRUCTOR TRAINING

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **SPECIAL SKILLS TRAINING**

STAGE	EVENTS	PERCENT
PERSONNEL RECOVERY COORDINATOR TRAINING	3	0.00%
INTERFACE CONTROL OFFICER TRAINING	4	0.00%
DEEP AIR OPERATIONS MANAGER TRAINING	4	
JOINT INTERFACE CONTROL OFFICER TRAINING	2	0.00%
TOTALS:	**13**	**0.00%**
TACCEO MOS 72XX T&R TOTALS:	**48**	**100.00%**

230. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. General. The majority of the TACCEO syllabus consists of ground training that requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified TACCEO.

a. Live Training. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. Simulator Training. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the TACC. Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. Minimum Performance for Syllabus "Write-Off". At the evaluator's discretion, personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency. Likewise, completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as completed at the discretion of the designated evaluator. Qualifications require a completed performance evaluation.

3. Evaluation of Training. Evaluation of those portions of the syllabus that are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per this Manual.

231. COMPONENTS OF A T&R EVENT. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained.

1/	2/	3/	4/	5/	6/
SAM-XXX	0.5	T,C,R,	E	EQUIP	L/S (NS)

Goal. The title of a unit of work that needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. engage a rotary winged aircraft.

Requirement. The condition(s) set for the real-world or combat circumstances in which the goals are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the goal 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.

Performance Standards. 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 goal is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

Prerequisite. Provides a listing of academic training or other T&R events that must be completed prior to satisfying the goal.

Reference. Listing of doctrinal or reference publications that may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

External Support Requirement. A listing or description of the external support requirements that may be required to satisfy completion of the goal. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES

1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable basic POI.

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator

preferred/live optional; **N** = Night; **NS** = Night Vision Device; where contained within **( )** denotes optional conditions.

232. COMBAT CAPABLE TRAINING. All Combat Capable training (100 series) is accomplished at the MACS, MASS, or LAAD after completing the applicable primary MOS Combat Qualification Syllabus for each Marine.

233. Combat Ready Training

1. System Training

a. Purpose. To develop the skills required to maintain proficiency in operating TACC equipment.

b. General. Contains the tactical and technical information necessary to maintain system proficiency.

c. Prerequisite. None.

d. Live Training (5 Events)

SYS-200 R TACC L

Goal. Operate communications equipment.

Requirement. Demonstrate the use of tactical communications equipment, the use of appropriate code words and communications brevity terms.

Performance Standards. Properly utilize the available communications suite:

(1) Internal communications (ICS).
(2) Radio nets.
(3) Switchboard nets and secure phones.
(4) Demonstrate mastery of proper authentication procedures.
(5) Utilization of proper radio transmission procedures in both secure and clear modes.
(6) Successfully complete 80% of the above listed standards.

References. TACC TM's.

Prerequisites. Academics: A-14, A-18, A-19.

External Syllabus Support. External agencies.

SYS-201 R TACC L

Goal. Setup a TACC for operations.

Requirement. With SL3 tools in garrison or deployed.

Performance Standards. Properly setup a COS/FOS.

(1) Unpack and setup work stations.
(2) Install LSDs/Plotting Boards.
(3) Create and install Status Boards.
(4) Erect tactical shelters, as required.
(5) Successfully complete 80% of the above listed standards.

References. TACC Handbook, local SOPs, TACC TM's.

External Syllabus Support. None.

SYS-202 R TACCL/S

Goal. Conduct TACC operations in an NBC environment.

Requirement. In a simulated NBC environment using MOPP equipment.

Performance Standards. Perform crew requirements while in MOPP level 4.

References. NBC SOPs.

Prerequisites. NBCD training and MOPP level exchange.

SYS-203 R TACC L/S

Goal. Setup/operate the IOW system.

Requirement. Create, edit, and delete overlay and track information in IOW.

Performance Standards. Demonstrate proficiency in the following:

(1) Setup IOW and connect to the network.
(2) Load maps into the IOW workstation.
(3) Connect IOW workstation to gateway.
(4) Create overlays.
(5) Import/export overlays to/from UB Host.
(6) Transmit an overlay.
(7) Successfully complete 80% of the above listed standards.

References. TSC-125-97-U and IOS Student Guide.

Prerequisites. Academics: T-10, T-29, T-51.

External Syllabus Support. None.

SYS-204 R TACC L/S

Goal. Setup/operate TBMCS.

Requirement. In current operations applications of TBMCS.

Performance Standards. Demonstrate proficiency in the following:

(1) Setup TBMCS for Operation.
(2) Login/logout of the TBMCS workstation.
(3) Manipulate the Common Operating Environment.
(4) Demonstrate proficiency in:
   (a) EM Replanner.
   (b) EM Reports.
   (c) EMC.
   (d) ATO/ACO Tool.
   (e) TK Talk.
   (f) E-mail.
   (g) User Alerts.
   (h) CAST/WARP.
   (i) Chat Utility.
(5) Successfully complete 80% of the above listed standards.

References. TBMCS, C2WS CBT.

Prerequisites. Academics: A-15, T-10, T-18, T-29.

External Syllabus Support. None.

SYS-205 2.0 R TACC L/S

Goal. Setup/operate AFATDS.

Requirement. Setup AFATDS for operation.

Performance Standards. Demonstrate proficiency in the following:

(1) Setup AFATDS for operation.
(2) Ability to interoperate with TBMCS in all six functional areas.
(3) Demonstrate proper nomenclature of all system components.
(4) Ability to create fire support coordination measure overlays.
(5) Ability to receive and respond to Joint Tactical Air Requests (JTARS) and Air Support Requests (ASR).
(6) Ability to pass overlays and requests to outlying MAGTF agencies.
(7) Understand of connectivity requirements for AFATDS operations.
(8) Ability to create, modify, and delete unit position tracks.
(9) Successfully complete 80% of the above listed standards.

Prerequisite. T-57.

Reference. AFATDS TM.

External Support Requirement. TBMCS, DASC, and GCE component agencies.

SYS-206 2.0 T, R TACC L/S

Goal. Setup/operate Multiple Source Correlation System (MSCS).

Requirement. Demonstrate the ability to operate MSCS.

Performance Standards. Demonstrate the ability to:

(1) Setup MSCS.
(2) Login to MSCS.
(3) Create/display/manipulate zones, overlays, and tracks.
(4) Edit Track Data display.
(5) Modify display defaults.
(6) Display Data Link/filter status.
(7) Modify display using system/status commands.
(8) Successfully complete 80% of the above listed standards.

Reference. MSCS Operator Reference Guide.

Prerequisite. T-33.

External Syllabus Support. None.

SYS-207 4.0 T, R TACC L

Goal. Configure National Systems Information.

Requirement. Configure the IBR display to depict desired National Systems data.

Performance Standards. Demonstrate proficiency in the following:

(1) Configure geographic, ELNOT based, and combined filtering scheme for TIBS, TDDS, and TADIXS-B data.
(2) Interpret location fidelity, time latency, and implications to operations of displayed ELINT information.
(3) Successfully complete 80% of the above listed standards.

References. TIBS/TDDS Broadcast Users Guide.

Prerequisites

(1) SYS-206.
(2) Academics T-08.

External Syllabus Support. IBR and IBS.

SYS-208 4.0 R TACC L

Goal. Setup/operate the IOS.

Requirement. Configure the IOS for operations.

Performance Standards. Demonstrate proficiency in the following:

(1) Setup IOS and connect to the network.
(2) Load maps into the IOS workstation.
(3) Create overlays.
(4) Transmit an overlay.
(5) Configure the TBMD display
(6) Establish the TDBM filtering scheme
(7) Successfully complete 80% of the above listed standards.

Prerequisite. Academics T-51.

External Syllabus Support. None.

2. Plotter (PLTR) Training

a. Purpose. To refine TACCEO skills required for PLTR qualification and to provide the means for a designated PLTR to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions required for PLTR qualification, and gain proficiency and maintain currency on TACC systems training.

(b) During each PLTR event the TACCEO must demonstrate proficiency in passing/receiving information, maintaining situational awareness and plotting information, using appropriate report formats, making appropriate entries required for IOW/AFATDS operations and functioning as a member of the cos.

(c) At least one IOW/AFATDS performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. IOW/AFATDS Operator's course of instruction.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet, the TACCEO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task organized TACC crew is required for exercise events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (6 Events)

PLTR-210	R	TACC	L

Goal. Perform IOW operator functions.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Utilize chart menu options for display management purposes.
(2) Utilize map menu options for display management purposes.
(3) Create, edit, update and delete track/unit information, communications tables, and filters.
(4) Create and utilize overlay functions.
(5) Perform track grouping functions.
(6) Send and receive OpNotes/Operator messages.
(7) Successfully complete 80% of the above listed standards.

References. TSC-125-97-U.

Prerequisites

(1) SYS-203.
(2) Academics: T-51, T-60.

External Syllabus Support. None.

PLTR-211 R TACC L/S

Goal. Perform AFATDS Operator functions.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Integrate AFATDS into the CTP network.
(2) Interoperate with the TBMCS in all six functional areas.
(3) Create, edit, delete fire support coordination measure overlays.
(4) Receive and respond to Joint Tactical Air Requests (JTARS) and Air Support Requests (ASR).
(5) Pass overlays and requests to outlying MAGTF agencies.
(6) Create, modify, and delete unit position tracks.
(7) Successfully complete 80% of the above listed standards.

References. TSC-125-97-U.

Prerequisites

(1) SYS-205.
(2) Academics: T-05, T-31, T-57.

External Syllabus Support. None.

PLTR-212 R TACC S/L

Goal. Create manual plotting displays.

Requirement. Construct manual or automated plotting display.

Performance Standards. Demonstrate proficiency in the following:

(1) Create a Cartesian Grid display.
(2) Create a Polar Grid display.
(3) Create a GEOREF display.
(4) Create a UTM Grid display.
(5) Create a Zone Defense Grid display.
(6) Lat/Long plotting procedures.
(7) Plot the Known Reference Point (KRP).
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3.25/.1/.2/.3/.7/.9/.10, MAWTS-1.

Prerequisites. Academics: A-17, T-14, T-32, T-35.

External Syllabus Support. None.

PLTR-213 R TACC S/L

Goal. Conduct manual plotting.

Requirement. Receive manual crosstell during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Common warfighting symbology.
(2) Manual crosstell priorities.
(3) Use established/published crosstell format to pass/receive track information on the appropriate net(s).
(4) Post and maintain non-real time (NRT) tracks based on information received from external agencies.
(5) Update all ACM/FSCM/ADCMs in effect.
(6) Update friendly and enemy positions on situation maps.
(7) Successfully complete 80% of the above listed standards.

References. MCWP 3.25, 3.25.10, NWP-32.

Prerequisite. PLTR-212.

External Syllabus Support. External C3 agencies.

QUAL-280 R E TACC L/S

Goal. Qualify the TACCEO as a PLTR.

Requirement. During as exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in PLTR-210, 211, 212, and 213.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3.25, 3.25.10.

Prerequisites. PLTR-210, PLTR-211, PLTR-212, PLTR--213.

External Syllabus. External C3 agencies.

3. Recorder (RCDR) Operator Training

a. Purpose. To refine TACCEO skills required for RCDR designation, and to provide a means for the designated Recorder/TBMCS Operator to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for RCDR.

(b) The TACCEO must demonstrate proficiency in recording aircraft status information, maintaining Situational Awareness, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(c) At least one live and one simulated RCDR performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Completion of the Combat Capable stage of training.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet, the TACCEO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required for the evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

RCDR-220	R	TACC	S

Goal. Perform as a Recorder/TBMCS Operator.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Maintain and update the status of ATO missions.
(2) Receive and forward reports (i.e., engagement reports, bomb hit assessments, JTARs, ASRs, etc.) using the established formats.
(3) Utilize appropriate TBMCS applications to update, modify and add an ATO mission.
(4) Utilize TBMCS as a communications and word processing platform.
(5) Utilize TBMCS to produce required ATO related reports.
(6) Maintain appropriate logs.
(7) Assist the Coordinator as required in C2 management functions.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CCS-TRBM-A017 TBMCS SUM.

Prerequisites

(1) SYS-204.
(2) Academics: A-09, B-07, T-18, T-43, T-50, T-54.

External Syllabus Support. External C3 agencies.

RCDR-221 R TACC L/S

Goal. Perform as an ADR.

Requirement. In the Air Defense Cell during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in RCDR-220.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.

Prerequisites

(1) RCDR-220, SYS-200, SYS-206, SYS-207.
(2) Academics: A-02, A-03, A-08, A-14, A-16, A-19, B-04, B-08, B-10, B-11, B-19, C-03, C-04, T-01, T-03,T-04, T-14, T-15, T-23, T-25, T-26, T-28, T-32, T-44, T-63.

External Syllabus Support. External C3 agencies.

RCDR-222 R TACC L/S

Goal. Perform as a Close/Deep Battle Recorder (CBR/DBR)

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in RCDR-220.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.

Prerequisites

(1) RCDR-220, SYS-200, SYS-206, SYS-207
(2) Academics: A-01, A-02, A-04, A-05, A-14, A-16, A-19, B-09 - B-11, B-16, C-02, T-05, T-07, T-14, T-15, T-17, T-28, T-31, T-39, T-40, T-44, T-56, T-58.

External Syllabus Support. External C3 agencies.

QUAL-281 R E TACC L/S

Goal. Qualify the TACCEO as a RCDR.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements in RCDR-220.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series.

Prerequisites. RCDR-221, RCDR-222.

External Syllabus Support. External C3 agencies.

4. Combat Ready Designations

a. Purpose. Designate the TACCEO as a PLTR/RCDR.

b. General

(1) Administrative Notes

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the PLTR/RCDR will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW commander’s designated representative.

(c) The TACCEO shall have a designation letter, with any waivers deferments or endorsements, filed in the MACCS Performance Record.

(2) Prerequisites

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (2 Events)

DESG-290 TACC

Goal. Designate the TACCEO as PLTR.

Prerequisites. QUAL-280.

DESG-291 TACC

Goal. Designate the TACCEO as RCDR.

Prerequisites. QUAL-281.

234. COMBAT QUALIFICATION TRAINING

1. Track Data Coordinator (TDC) Training

a. Purpose. To refine TACCEO skills required for TDC qualification and to provide a means for a TACCEO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for TDC qualification.

(b) During each period, the TACCEO must demonstrate proficiency in track data management and maintenance of the single integrated air picture and to function as a key member of the TACC crew supporting the Command Section.

(c) At least one live TDC performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. Completion of the Combat Capable stage of training.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the evaluated events.

d. Academic Training. Academic training will be conducted prior to or concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (6 Events)

TDC-300	R	TACC	L/S

Goal. Perform TDC functions.

Requirement. With a serial link (TADIL-B, NATO Link-1) during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Enter required DB entries.
(2) Activate, determine the status of, and troubleshoot each link as applicable.
(3) Perform order functions associated with the appropriate link.
(4) Perform track management functions.
(5) Successfully complete 80% of the above listed standards.

References. JTAO Handbook, CJCSM6120.01B.

Prerequisites

(1) SYS-200, SYS-206, SYS-207.
(2) Academics: A-01 – A-03, A-08, A-14, A-16 – A-19, B-07, B-08, B-10, B-13 – B-15, B-22, C-02 – C-04, C-06, T-08, T-10, T-14 – T-16, T-19 – T-22, T-24, T-26 – T-28, T-30, T-32, T-39, T-42 – T-45, T-47 – T-49, T-52 – T-54, T-60.

External Syllabus Support. External TADIL agencies.

TDC-301	R	TACC	L/S

Goal. Perform TDC functions.

Requirement. In a live netted data link (TADIL-A/Link 11) during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Enter required DB entries.
(2) Activate, determine the status of, and troubleshoot the link as applicable.
(3) Operate in the following modes:
    (a) Radio Silent.
    (b) Net Control Station (NCS).
    (c) Picket.
(4) Perform track management functions IAW ICO's direction.
(5) Perform track data coordination responsibilities over designated voice nets.

(6) Successfully complete 80% of the above listed standards.

References. JTAO Handbook, Understanding Link-11, CJCSM 6120.01B.

Prerequisites

(1) SYS-200, SYS-206, SYS-207
(2) Academics: A-01 – A-03, A-08, A-14, A-16 – A-19, B-07, B-08, B-10, B-13 – B-15, B-22, C-02 – C-04, C-06, T-08, T-10, T-14 – T-16, T-19 – T-22, T-24, T-26 – T-28, T-30, T-32, T-39, T-42 – T-45, T-47 – T-49, T-52 – T-54, T-60.

External Syllabus Support. External TADIL agencies.

TDC-302 R TACC L/S

Goal. Perform TDC functions.

Requirement. In a nodeless link environment (TADIL-J/Link-16) during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Achieve network synchronization, enter TADIL-J/Link-16 net, determine the status of, and trouble shoot the link as applicable.
(2) Conduct passive operations utilizing passive synchronization.
(3) Perform TADIL-J/Link-16 operations in a multiple net/stacked net evolution.
(4) Establish TACC TADIL-J/Link-16 as Network Time Reference (NTR).
(5) Establish proper Interference Protection Feature (IPF), establish Normal (200 watts), Exercise Override (1000 watts), or Combat Override IPF as required.
(6) Extract correct data from Network Design Load (NDL) and enter into DB.
(7) Extract correct Network Participation Group (NPG) from the OPTASK LINK and NDL for entry into the DB.
(8) Enter appropriate data filters as listed in OPTASK LINK.
(9) Establish TADIL-J using JRE protocol
(10) Successfully complete 80% of the above listed standards.

References. JTAO Handbook, Understanding Link-16, CJCSM 6120.01B.

Prerequisites

(1) SYS-200, SYS-206, SYS-207
(2) Academics: A-01 – A-03, A-08, A-14, A-16 – A-19, B-07, B-08, B-10, B-13 – B-15, B-22, C-02 – C-04, C-06, T-08, T-10, T-14 – T-16, T-19 – T-22, T-24, T-26 – T-28, T-30, T-32, T-39, T-42 – T-45, T-47 – T-49, T-52 – T-54, T-60.

External Syllabus Support. External TADIL agencies.

TDC-303 R E TACC L/S

Goal. Perform as a TDC.

Requirement. In a multi-TADIL environment.

Performance Standards. Demonstrate proficiency in the following:

(1) Brief link critical information during the TACC crew brief.
(2) Ensure data link DB entries are entered and correct.
(3) Ensure TACC data link equipment is set up/keyed.
(4) Ensure required DL filters are entered and activated.
(5) Perform link trouble shooting and take corrective action as required.
(6) Perform/supervise manual crosstell procedures.
(7) Integrate Tactical Command System (CTT3) data into the TADIL display.
(8) Perform track management functions per ICO direction.
(9) Successfully complete 80% of the above listed standards.

References. JTAO Handbook, Understanding Link-11, Understanding Link-16, CJCSM 6120.01B.

Prerequisites. TDC-300, TDC-301, TDC-302.

External Syllabus Support. External TADIL agencies, IBS.

QUAL-380 R E TACC L/S

Goal. Qualify the TACCEO as a TDC.

Requirement. In a multi-TADIL environment during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Brief the system configuration portion of the TACC crew brief.
(2) All requirements identified in TDC-303.
(3) Successfully complete 80% of the above listed standards.

References. JTAO Handbook, Understanding Link-11, Understanding Link-16, CJCSM 6120.01B.

Prerequisite. TDC-303.

External Syllabus Support. External TADIL agencies.

2. Air Defense Coordinator (ADC) Training

a. Purpose. To refine TACCEO skills required for introduction as an ADC.

b. General

(1) Administrative Notes

(a) Perform basic ADC functions.

(b) During designated events, the TACCEO must demonstrate proficiency in coordinating air defense assets within the assigned sector of operations, maintaining situational awareness, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(c) The event may be live or simulated and must be conducted during an exercise.

(2) Prerequisite. Completion of Combat Ready phase of training.

(3) Refresher Training. None.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (1 Event)

ADC-310	R	TACC	S/L

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the air defense portion of the TACC crew brief.
(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.
(3) Coordinate the air defense operations of subordinate and external agencies, as directed.
(4) Initiate orders to air defense agencies and countermand subordinate agency actions, as required.
(5) Monitor equipment status and operational posture of C3 agencies relative to air defense, as required.
(6) Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert.
(7) Coordinate with the SADC/RADC/AADC concerning the execution of air defense missions.
(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

(d) Direct launches of unscheduled missions and provide mission briefings.
(e) Coordinate scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure information is kept current and the SAC is updated concerning the air defense situation.

(10) Coordinate, as required:
(a) Modifications to ADCMs.
(b) Changes to sectors of responsibility.
(c) Changes to established ROE.
(d) Changes to EMCON/RADCON status.
(e) Flow of air defense information/reports.

(11) Ensure established cross-tell procedures are utilized by the air defense section, as required.

(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisites

(1) Completion of Combat Ready phase of training.

(2) Academics: B-01 - B-03, B-07, B-12, B-14, B-18, C-05 - C-06, T-07 – T-11, T-13, T-16, T-21, T-30, T-34, T-38, T-42 - T-43, T-50, T-58, T-60, T-66.

External Syllabus Support. External C3/AD agencies.

3. Close Battle Coordinator (CBC) Training

a. Purpose. To refine TACCEO skills required for introduction as a CBC.

b. General

(1) Administrative Notes

(a) Perform basic CBC functions.

(b) The TACCEO must demonstrate proficiency in monitoring and assessing the effectiveness of close air and assault support missions in support of the MAGTF close battle and functioning as a member of the COS.

(2) Prerequisite. Combat Ready stage of training complete.

(3) Refresher Training. None.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (1 Event)

CBC-320	R	TACC	L/S

Goal. Perform as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the Close Battle Cell portion of the TACC crew brief.
(2) Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle.
(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.
(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.
(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.
(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend COAs to support JTARs/ASRs/ CASEVACs to the SAC/SWO based upon asset availability.
(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:
   (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
   (b) Divert preplanned missions and provide mission briefings.
   (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
   (d) Direct launches of unscheduled missions and provide mission briefings.
   (e) Coordinate scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the close battle situation.
(10) Coordinate the modification of ACMs/FSCMs, as required.
(11) Coordinate with the Intelligence Watch Section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy COAs.
(12) Coordinate with the Ground Watch Section for current/ projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Supervise the conduct of the Close Battle Cell.
(14) Monitor equipment status and operational posture of C3 agencies relative to the close battle, as required.
(15) Maintain appropriate logs.
(16) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisites

(1) Combat Ready phase of training complete.
(2) Academics: B-1 - B-07, B-17, B-18, B-20, B-21, B-23 - B-25, T-08 - T-09, T-16, T-22, T-34, T-38, T-41 - T-43, T-50, T-55, T-61, T-62, T-64, T-65.

External Syllabus Support. External C3 agencies.

4. Combat Qualified Designations

a. Purpose. To designate the TACCEO as a TDC.

b. General

(1) Administrative Notes

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCEO will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW commander's designated representative.

(c) The TACCEO shall have a designation letter, with any waivers deferments or endorsements, filed in their MACCS Performance Record.

(2) Prerequisites

(a) Completion of the Combat Ready phase of training.

(b) Completion of designated MACCS Academic COI, as well as performance and qualification events.

(C) QUAL-380.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (1 Event)

DESG-390 TACC

Goal. Designate the TACCEO as a TDC.

Prerequisites. QUAL-380.

235. FULL COMBAT QUALIFICATION TRAINING

1. Air Defense Coordinator (ADC) Training

a. Purpose. To refine TACCEO skills required for ADC designation, and to provide a means for the designated ADC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ADC qualification.

(b) During designated events, the TACCEO must demonstrate proficiency in coordinating air defense assets within the assigned sector of operations, maintaining situational awareness, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(c) Performance event will be conducted during an exercise.

(2) Prerequisite. Combat Qualification phase of training complete.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet, the TACCEO will complete "R" coded events in the 400 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ADC-400	R	TACC	L

Goal. Conduct air defense planning.

Requirement. Participate in Air Defense Cell planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the air defense portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, intentions message, etc.) and assist in the development of the air defense plan for the assigned area.
(3) Perform threat analysis for defended assets.
(4) Review and make recommendations for modification of airspace/air defense control measures, as required.
(5) Conduct TMD planning, as required.
(6) Participate in the planning of emissions/radiation control measures.
(7) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series.

Prerequisites. Completion of Combat Qualified phase of training.

External Syllabus Support. None.

ADC-401 R TACC L/S

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements identified in ADC-310.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisites

(1)ADC-400.
(2)Completion of Combat Qualification phase of training.

External Syllabus Support. External C3/AD agencies.

QUAL-480 R E TACC L

Goal. Qualify the TACCEO as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements identified in ADC-400 and 401.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

Prerequisites. ADC-401.

External Syllabus Support. External C3/AD agencies.

2. Close Battle Coordinator (CBC) Training

a. Purpose. To refine TACCEO skills required for CBC qualification and to provide a means for the TACCEO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CBC qualification.

(b) The TACCEO must demonstrate proficiency in monitoring and assessing the effectiveness of close air and assault support missions in support of the MAGTF close battle and functioning as a member of the COS.

(2) Prerequisite. Combat Qualified stage of training complete.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet, the TACCEO will complete "R" coded events in the 400 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

CBC-410 R TACC L

Goal. Close Battle Cell planning.

Requirement. Participate in Close Battle Cell planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the Close Battle Cell portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ACP,PCH, etc.) and assist in the development of the close/rear battle plans for the MAGTF.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Strike Operations planning, as required.
(5) Assist in the planning of emissions control measures, as required.
(6) Assist in planning for CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, local SOPs.
Prerequisites. Combat Qualified phase of training complete.

External Syllabus Support. None.

CBC-411 R TACC L/S

Goal. Perform as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in CBC-320.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisites. Combat Qualified phase of training complete and CBC-410.

External Syllabus Support. External C3 agencies.

QUAL-481 R E TACC L

Goal. Qualify the TACCEO as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements identified in CBC-411.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

Prerequisite. CBC-411.

External Syllabus Support. External C3 agencies.

3. Crew Chief (CC) Training

a. Purpose. To refine TACCEO skills required for CC qualification and to provide a means for a TACCEO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CC qualification.

(b) The TACCEO must demonstrate proficiency in crew management functions, maintenance status of all equipment associated with TACC operations, and assist in functional cell operation as required.

(c) At least one live CC performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. Completion of the Combat Qualified phase of training, QUAL-480 and QUAL-481.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for evaluated events.

d. Academic Training. Academic training will be conducted prior to, and concurrently with, required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

CC-420 R TACC L

Goal. Perform CC functions.

Requirement. During daily operations.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) System setup and initialization.
(2) Keying of all crypto.
(3) Ensure appropriate DBs are loaded.
(4) Proper handling/procedures of classified materials.
(5) Provide instruction to crew members, as required.
(6) Maintenance of all CC/crew logs.
(7) Assist SAC in integration of crew operations.
(8) Assist in network establishment for CTP.
(9) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4, local SOPs, TACC TMs.

Prerequisites

(1) QUAL-480 and QUAL-481.
(2) Academics: C-01, C-05, T-12, T-16, T-34, T-55, T-61, T-64.

External Syllabus Support. External C3 agencies.

CC-421 R TACC L

Goal. Prepare the TACC for embarkation and set-up.

Requirement. Assist in deployment and establishment of the TACC.

Performance Standards. Demonstrate proficiency in the following:

(1) Proper packup of the TACC and all associated equipment.
(2) Stage and load equipment pallets.
(3) Off load and placement of equipment pallets.
(4) Unpacking and setup of TACC equipment.
(5) Assist in TACC site selection.
(6) Coordinate power distribution planning for the TACC.
(7) Coordinate logistical support requirements
(8) Assist in TACC/MWCS integration plan.
(9) Coordinate establishment of the TACC TDN.
(10) Assist in planning for TACC physical security requirements.

(11) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4, local SOPs.

Prerequisite. CC-420.

External Syllabus Support. CIS planners.

CC-422 R TACC S/L

Goal. Perform as a CC.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Brief the CC portion of the TACC crew briefing.
(2) All requirements identified in CC-400.
(3) Manage the processing of reports generated within the COS.
(4) Ensure all status/plotting boards are updated and maintained.
(5) Monitor current weather status.
(6) Monitor control and distribution of classified material within the COS.
(7) Supervise proper routing of information within the COS.
(8) Provide the interface between operations and maintenance for systems fault resolution and prioritization.
(9) Ensure timely receipt/submission of required reports.
(10) Maintain CC log, crew rosters, collect and safeguard operational logs/information and T&R documentation at the conclusion of the crew watch.
(11) Successfully complete 80% of the above listed standards.

References. MCWP 3-25.4.

Prerequisites. CC-420, CC-421.

External Syllabus Support. External C3 agencies.

QUAL-482 R E TACC L

Goal. Qualify the TACCEO as a CC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in all CC-422 requirements.

Reference. MCWP 3-25.4.
Prerequisite. CC-422.

External Syllabus Support. External C3 agencies.

4. Full Combat Qualification Designation

a. Purpose. To designate the TACCEO as an ADC, CBC and CC.

b. General

(1) Administrative Notes

(a) A TACCEO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCEO will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW commander's designated representative.

(c) The TACCEO shall have a designation letter, with any waivers deferments or endorsements, filed in their MACCS Performance Record.

(2) Prerequisites

(a) Completion of the Full Combat Qualification phase of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (3 Events)

DESG-490 TACC

Goal. Designate the TACCEO as an ADC.

Prerequisites. QUAL-480.

DESG-491 TACC

Goal. Designate the TACCEO as CBC.

Prerequisite. QUAL-481.

DESG-492 TACC

Goal. Designate the TACCEO as CC.

Prerequisite. QUAL-482.

236. SPECIAL SKILL QUALIFICATION TRAINING

1. Personnel Recovery Coordinator (PRC) Training

a. Purpose. To refine the skills required for PRC designation and to provide a means for the designated PRC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for PRC qualification.

(b) The Combat Capable TACCEO must demonstrate proficiency in coordinating personnel recovery missions by completing the PRC training syllabus.

(2) Prerequisite. Completion of the Combat Qualification phase of training and attend the Personnel Recovery 101 course. Personnel Recovery 301 course is encouraged, but not required.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a PRC billet for 24 months or longer. Upon return to an appropriate billet, the TACCEO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

PRC-600 R TACC L

Goal. Conduct Personnel Recovery planning.

Requirement. Plan establishment of the component RCC.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the RCC portion of the TACC crew brief.
(2) Assist in the development of the JCSARTF/TRAP plan.
(3) Set-up/design the component RCC.
(4) Assist in planning for PR communications.
(5) Assist in the development and preparation of execution checklists, as required.
(6) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites

(1) Combat Qualification phase of training complete.
(2) Academics: C-01, T-25.
(3) Personnel Recovery 101 Course.

External Syllabus Support. None.

PRC-601 R TACC S/L

Goal. Perform as a PRC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the RCC portion of the TACC crew brief.
(2) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/ survivability for PR operations.
(3) Supervise the activation and monitoring of PR communications and execution checklists, as required.
(4) Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR) and SAR Situation Report (SAR SIT)).
(5) Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations.
(6) Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JSRC/adjacent RCCs).
(7) Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL.
(8) Ensure CSAR/TRAP case folders are completed and maintained.
(9) Monitor and update location/availability of CSAR/TRAP assets.
(10) Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.).
(11) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. PRC-600.

External Syllabus Support. External C3 agencies.

QUAL-680 R E TACC L/S

Goal. Qualify the TACCEO as a PRC.
Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements identified in PRC-600 and 601.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,

AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisites. PRC-601.

External Syllabus Support. External C3 agencies.

2. Interface Control Officer (ICO) Training

a. Purpose. To refine TACCEO skills required for ICO designation and to provide a means for the designated ICO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ICO qualification.

(b) During designated events, the TACCEO must demonstrate proficiency in managing system interfaces, maintaining an accurate situational display, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(2) Prerequisite. Combat Qualification stage of training complete.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet the TACCEO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ICO-610 R TACC L

Goal. Develop planning documents.

Requirement. Conduct multi-TADIL network planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Develop an OPTASKLINK.
(2) Assist in the development of the surveillance plan/TACOPDAT within the AO.
(3) Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include:

(a) SCR/MUX/SATCOM requirements.
(b) Telephone (secure and non-secure) requirements.
(c) Data link interface requirements.
(d) TBMCS interface requirements.

(4) Ensure availability of all required cryptographic keying material.
(5) Assist in the development of redundant architectural designs for all interface requirements listed in standard (3) above.
(6) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisites

(1) Completion of Combat Qualification phase of training.
(2) Academics: T-12, T-25.
(3) Attend the MAJIC and JTIDS courses, recommended but not required.

External Syllabus Support. None.

ICO-611 R TACC S/L

Goal. Perform as an ICO.

Requirements. Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the ICO portion of the TACC crew brief.
(2) Supervise the TDC performing track management functions.
(3) Supervise the appropriate use and implementation of manual crosstell procedures.
(4) Recommend and implement changes to data link configurations and EMCON conditions, as required.
(5) Monitor the accuracy of datalink presentations.
(6) Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies.
(7) Monitor quality of MAGTF input to the common tactical picture.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01A, local SOPs.
Prerequisite. ICO-610.

External Syllabus Support. External TADIL platforms.

ICO-612 R TACC L/S

Goal. Perform as an ICO.

Requirement. Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ICO-611.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisite. ICO-611.

External Syllabus Support. External TADIL platforms.

QUAL-681 R E TACC L

Goal. Qualify the TACCEO as an ICO.

Requirement. Conduct multi-TADIL network management.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ICO-612.
(2) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, CJCSM 6120.01B, CJCSM 3115.01, local SOPs.

Prerequisite. ICO-612.

External Syllabus Support. External TADIL platforms.

3. Deep Air Operations Manager (DAOM) Training

a. Purpose. To refine skills required for the DAOM qualification and to provide a means for the DAOM to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for DAOM qualification.

(b) The TACCEO must demonstrate proficiency in monitoring and assessing the effectiveness of deep air support missions in support of the MAGTF deep battle, and functioning as a member of the COS.

(2) Prerequisite. Completion of Combat Qualification phase of training, QUAL-481.

(3) Refresher Training. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 24 months or longer. Upon return to an appropriate billet the TACCEO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

DAOM-620 R TACC L

Goal. Conduct Deep Battle Cell planning.

Requirement. Plan for Deep Air Operations in support of a GCE.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the Deep Battle Cell portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, BSM, RAGM, etc.) and assist in the development of the deep battle plan.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Attack Operations planning, as required.
(5) Plan for integration of joint and combined C4ISR assets.
(6) Assist in the planning for CSAR/TRAP/CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series, local SOPs.

Prerequisites

(1) Completion of Combat Qualification phase, QUAL-481.
(2) Academics: C-01, T-12, T-36, T-37.

External Syllabus Support. None.

DAOM-621 R TACC S/L

Goal. Perform as a DAOM.

Requirement. During an exercise.

Performance Standards. Perform duties as DAOM in the following:

(1) Conduct the Deep Battle Cell portion of the TACC crew brief.
(2) Acquire and maintain current information on the status and operations of air missions in support of the deep battle.

(3) Advise the SWO/SAC on the employment of air assets in support of the deep battle.
(4) Coordinate the synchronization of air operations in support of the deep battle within the ATO cycle.
(5) Maintain communications with the DASC/Deep Air Operations Coordinator, MAGTF air officer, the MAGTF fire support coordinator, AOC/BCD, or other agencies, as required.
(6) Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend to the SAC/SWO COAs to support JTAR/ASR/CASEVACs, based upon asset availability.
(8) Make Recommendations to the SWO/COC to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.
    (e) Coordinate scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the deep battle situation.
(10) Coordinate the modification of ACMs/FSCMs, as required.
(11) Coordinate with the Intelligence Watch Section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.
(12) Coordinate with the Ground Watch Section for current/ projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Monitor equipment status and operational posture of C3 agencies relative to the deep battle, as required.
(14) Review MAGTF/JFC targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least four hours prior to execution.
(15) Coordinate with ACI Target Intelligence Section to receive updated targeting and BHA information.
(16) Receive MISREPS for passage to the Intelligence Watch Section for review and processing.
(17) Recommend to the SWO, in conjunction with the ACI target intelligence section, dynamic retasking of air assets in response to emergent targets in the deep battle area.
(18) Provide the SWO the impact on the deep battle of shifting assets during the current ATO.
(19) Recommend changes or identify preplanned ordnance configurations in response to target changes or weather conditions.
(20) Supervise the conduct of the Deep Battle Cell.
(21) Maintain appropriate logs.
(22) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. DAOM-620.

External Syllabus Support. External C3 agencies.

DAOM-622 R TACC L/S

Goal. Perform as a DAOM.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in DAOM-621.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. DAOM-621.

External Syllabus Support. External C3 agencies.

QUAL-682 R E TACC L/S

Goal. Qualify the TACCEO as a DAOM.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All listed DAOM-622 requirements.
(2) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. DAOM-622.

External Syllabus Support. External C3 agencies.

4. Joint Interface Control Officer (JICO) Training

a. Purpose. To refine the skills required for JICO qualification and to provide a means for a JICO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for JICO Qualification.

(b) JICO-630 and QUAL-683 may occur simultaneously during the JICO course.

(c) JICO and Regional Interface Control Officer (RICO) within this document may be interchanged based upon the level at which the duties are performed.

(2) Prerequisites. ICO qualification, completion of JTIDS course and the MAJIC course. Network Design course is recommended, but not mandatory.

(3) Refresher Training. Refresher training is required once the JICO has been absent from a JICO/RICO cell billet for 24 months or longer. Upon return to an appropriate billet, the JICO/RICO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A JICO/RICO cell in a multi-TADIL environment.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

JICO-630	R	TACC	L

Goal. Perform as a JICO.

Requirement. Complete Multi-TADIL School JICO course.

Performance Standards. Per JICO course POI.

References. CJCSM 3115.01 JDN Operations.

Prerequisites. ICO qualification. Attend JTIDS course and MAJIC course. Attendance at JTIDS Network Design course is recommended, but not required.
External Syllabus Support. JICO course quota.

QUAL-683	R,E	TACC	L

Goal. Qualify as a JICO.

Requirement. Perform as a member of a JICO/RICO cell.

Performance Standards. Demonstrate proficiency in the following:

(1) Interact with the JICO cell TADIL-A/B Manager.
(2) Interact with the JICO cell TADIL-J Manager.
(3) Interact with the Joint TDC.
(4) Plan and implement the AADC/RADC Multi-TADIL Network (MTN).
(5) Successfully complete 80% of the above listed standards.

References. CJCSM 3115.01 JDN Operations and CJCSM 6110.01B Joint Multi-TADIL Operating Procedures (JMTOP).

Prerequisites. JICO course completion.

External Syllabus Support. JICO cell and multi-service exercise/operation.

5. Special Skills Designations

a. Purpose. To designate the TACCEO as a PRC, ICO, DAOM, and JICO.

b. General

(1) Administrative Notes

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and a designated SAC will certify the TACCEO. A recommendation for designation will be staffed to the MAW commander’s designated representative.

(c) The TACCEO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) Prerequisites. Completion of the Special Skills Qualification stage of training.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (4 Events)

DESG-690 TACC

Goal. Designate the TACCEO as PRC.

Prerequisite. QUAL-680.

DESG-691 TACC

Goal. Designate the TACCEO as ICO.

Prerequisite. QUAL-681.

DESG-692 TACC

Goal. Designate the TACCEO as DAOM.

Prerequisite. QUAL-682.

DESG-693 TACC

Goal. Designate the TACCEO as JICO.

References. CJCSM 3115.01 JDN Operations.

Prerequisites. QUAL-683.

240. SPECIAL TRAINING REQUIREMENTS. None.

250. EXPENDABLE ORDNANCE REQUIREMENTS. None.

260. PROFICIENCY INTERVALS. Tables 2-14, 2-15, 2-16, and 2-17 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification and special skills training levels.

Table 2-14.--TACCEO Proficiency Interval for the Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	1			X		L
	201	24	1			X		L
	202	12	1			X		L/S
	203	24	1			X		L/S
	204	24	2			X		L/S
	205	24	1			X		L/S
	206	24	1	X		X		L/S
	207	24	1	X		X		L
	208	24	1			X		L
PLTR	210	24	1			X		L

Table 2-14.--TACCEO Proficiency Interval for the Combat Readiness Training Level--Continued.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
PLTR	211	24	1			X		L/S
	212	24	0.5			X		S/L
	213	24	0.5			X		S/L
RCDR	220	24	2			X		S
	221	24	2			X		L/S
	222	24	2			X		L/S
QUAL	280	36	2			X	X	L/S
	281	36	2			X	X	L/S
DESG	290		0					

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	291		0					

Table 2-15.--TACCEO Proficiency Interval for the Combat Qualification Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
TDC	300	24	2			X		L/S
	301	24	2			X		L/S
	302	24	2.5			X		L/S
	303	24	2.5			X	X	L/S
ADC	310	24				X		/S/L
CBC	320	24				X		L/S
QUAL	380	36	3			X	X	L/S
DESG	390							

Table 2-16.--TACCEO Proficiency Interval for the Full-Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ADC	400	24	0.25			X		/L
	401	24	0.25			X		L/S
CBC	410	24	0.25			X		/L
	411	24	0.25			X		L/S
CC	420	24	0.5			X		L
	421	24	0.5			X		L
	422	24	1			X		S/L
QUAL	480	36	0.5			X	X	L
	481	36	0.5			X	X	L
	482	36	1			X	X	L
DESG	490							
	491							
	492							

Table 2-17.--TACCEO Proficiency Interval for the Special Skills Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
PRC	600	24				X		L
	601	24				X		S/L
ICO	610	12				X		L
	611	12				X		S/L
	612	12				X		L/S
DAOM	620	24				X		L
	621	24				X		S/L

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	622	24				X		L/S
JICO	630	24						/L
QUAL	680	36				X	X	L/S
	681	36				X	X	L/
	682	36				X	X	L/S
	683	36	0			X	X	L
DESG	690		0					
	691		0					
	692		0					
	693		0					

270. EVENT UPDATE CHAINING. Tables 2-18 and 2-19 contain the event update chaining for the TACCEO.

Table 2-18.--TACCEO Combat Ready and Combat Qualified Training Event Update Chaining.

EVENTS	EVENTS UPDATED
200	
201	
202	
203	
204	
205	
206	
207	
208	
210	203
211	205
212	
213	
220	200,205
221	200,204,206
222	200,203,204,205,206,208
280	210,211,212,213
281	220,221,222
290	
291	

Table 2-18.--TACCEO Combat Ready and Combat Qualified Training Event Update Chaining--Continued.

EVENTS	EVENTS UPDATED
300	
301	
302	
303	
310	200,204,206
320	200,203,204,205,206,208
380	300,301,302,303

EVENTS	EVENTS UPDATED
390	

Table 2-19.--TACCEO Full-Combat and Special Skills Training Event Update Chaining.

EVENTS	EVENTS UPDATED
400	
401	400,310
410	
411	410,320
420	
421	
422	
480	280,281,310,400
481	280,281,320,410
482	280,281,420,421,422
490	
491	
492	

CHAPTER 3

TACTICAL AIR COMMAND CENTER OFFICER (TACCO)
(MOS 75XX)

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CHAPTER 3

TACTICAL AIR COMMAND CENTER OFFICER (TACCO) (MOS 75XX)

300. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop unit warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective T&R program is the first step in providing the MAGTF commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training (SAT) to satisfy the training requirements of commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the SAT used in T&R development and Marine Corps UTM principles.

3. The Unit T&R and the individual T&R programs are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills that enable units to satisfy the requirements.

301. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills that support the Mission Essential Tasks (METs) derived from and T/O mission statements, which are realistically expected to be assigned in combat.

2. Mission. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. Mission Essential Tasks

a. Develop, disseminate, and manage the execution of the Marine component Air Tasking Order (ATO).

b. Produce and disseminate aviation tailored, all source intelligence and CI required for decision-making during the planning and execution of Air Operations.

c. Maintain and disseminate information on the friendly situation, including the aviation and ground combat information essential to the air effort.

d. Plan and coordinate the employment of ACE communications electronics information networks and means.

e. Plan, coordinate and manage employment of all aircraft and surface-to-air weapons, agencies, and sensors within, or in support of the assigned area of operations.

f. Establish and disseminate air defense warning conditions, weapons control status, and states of alert to all major elements of the MAGTF/joint/combined force.

g. Plan and coordinate air operations between the MACCS and command and control agencies external to the MAGTF, to include joint/combined/host nation agencies.

h. Develop and promulgate Air Operations Plans and Orders.

i. Plan and supervise airspace coordination.

j. Analyze and evaluate the results of air operations.

k. Provide pertinent emission control information within the area of operations.

l. Coordinate information flow to facilitate efficient planning and execution of aviation operations.

m. Support expeditionary operations.

n. Support TACC operations in an NBC environment.

o. Plan, coordinate, and direct personnel recovery operations as the Marine component Rescue Coordination Center.

4. TACC Core Capabilities

a. Current Operations Section (COS). A core capable TACC COS is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and combat information processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform those functions during contingency/combat operations, assuming all crew positions are manned and supporting MOSs are at 80%. Sufficient Tactical Data Information Link (TADIL), voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions

are not filled, those critical functions performed at the vacant position(s) will be degraded. The notional COS core capable crew of the baseline TACC consists of 60 personnel as depicted in table 3-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 3-1.--Notional Current Operations Section.

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/ TDC Cell
Current Ops Officer	Ground Watch Officer	Intel Watch Officer	Senior Watch Officer	Close Battle Coord	Deep Air Operations Manager	Air Defense Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Officer	C2 Systems Watch Officer	Interface Coord Officer
Asst. Current Ops Officer	Fire Support Officer	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	Recorder	Recorder/ Plotter	Deep Battle Analyst (3)	Recorder	C2 Maint Coord	Radio Watch NCO	Track Data Coord
Ops Chief	Engineer Officer	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder TBMCS Operator (2)		Logistics Watch Officer	Data/ Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Officer	Wireman	
	IOW Operator			Recorder (2)	Plotter					Force Protection Watch Officer	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Officer		

b. Future Operations Section (FOS). A core capable TACC FOS plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by the vacant position(s) will be degraded. The notional FOS core capable crew of the baseline TACC consists of 44 personnel as depicted in table 3-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 3-2.--Notional Future Operations Section.

OPS ADMIN SECTION	GROUND WATCH SECTION	ORDERS DEVELOPMENT SECTION	ATO DEVELOPMENT SECTION	INTELLIGENCE WATCH SECTION
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. Future Plans Section. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by the vacant position(s) will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 3-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14, Aviation T&R Manual, Administrative.

Table 3-3.--Notional Future Plans Section

OPS ADMIN SECTION	GROUND WATCH SECTION	ORDERS DEVELOPMENT SECTION	ATO DEVELOPMENT SECTION	INTELLIGENCE WATCH SECTION
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. Billet-Syllabus Qualification Matrix. Tables 3-4, 3-5, and 3-6 contain a billet-syllabus qualification matrix for the COS/FOS and the current plans section.

Table 3-4.--TACC Current Operations Section
Billet-Syllabus Qualification Matrix.

CURRENT PERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
CURRENT OPERATIONS WATCH SECTION	Current Operations Officer (COPSO)	Current Operations Officer (COPSO)
	Senior Watch Officer (SWO)	Senior Watch Officer (SWO)
	Senior Air Coordinator (SAC)	Senior Air Coordinator (SAC)
	Crew Chief (CC)	TACC Crew Chief (TACC-CC)

CURRENT PERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Recorder	Recorder (RCDR)

Table 3-4.--TACC Current Operations Section
Billet-Syllabus Qualification Matrix—Continued.

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Deep Air Operations Manager	Deep Air Operations Manager (DAOM)
	UAV Tasker	Air Battle Tasker (ABT)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (ABT)
	Rotary Wing Tasker	Air Battle Tasker (ABT)
	UAV Tasker	Air Battle Tasker (ABT)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (CBC)
	Fixed Wing Recorder	Recorder (RCDR)
	Fixed Wing Plotter	Plotter (PLTR)
	Rotary Wing Recorder	Recorder (RCDR)
	Rotary Wing Plotter	Plotter (PLTR)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (ADC)
	Air Defense Recorder	Recorder (RCDR)
	Air Defense Plotter	Plotter (PLTR)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer (ACO)
	Airspace Plotter/Recorder	Plotter (PLTR) Recorder (RCDR)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Control Officer (ICO)	Interface Control Officer (ICO)
	Track Data Coordinator (TDC)	Track Data Coordinator (TDC)
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Close Battle Analyst (CBA)
	Deep Battle Analyst	Deep Battle Analyst (DBA)
	Recorder	Recorder (RCDR)
SAR COORDINATION CELL	Personnel Recovery Coordinator	Personnel Recovery Coordinator (PRC)
	SRCC Recorder	Recorder (RCDR)

Table 3-5.--TACC Future Operations Section
Billet-Syllabus Qualification Matrix.

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Operations Officer (FOPS)	Future Operations Officer (FOPS)
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (ATODO)
ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (ATOPLO)
	Strike Planner	ATO MSN Planner (ATOMP)
	EW Planner	ATO MSN Planner (ATOMP)
	Support Planner	ATO MSN Planner (ATOMP)
	UAV Planner	ATO MSN Planner (ATOMP)
	Airspace Control Measures Planner	ATO/ACO Planner (AAP)
	Air Defense Planner	ATO/ACO Planner (AAP)
	Air Support Planner	ATO/ACO Planner (AAP)
ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (ATOPRO)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A
ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (ORDO)
	Strike Plans Officer	Orders Development Planner (ORDP)
	Support Plans Officer	Orders Development Planner (ORDP)
	C2 Plans Officer	AVN C2 Planner (AC2P)

Table 3-6.--TACC Future Plans Section
Billet-Syllabus Qualification Matrix

FUTURE PLANS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Plans Officer	Future Plans Officer (FPNO)
	Sr Planner	N/A
	Airspace/Air Defense Planner	N/A
	Assault Support Planner	N/A

	Strike Support Planner	N/A
	Aviation Support Planner	N/A

302. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. Combat Capable Training. The Combat Capable phase of training (100 level) will be accomplished by the Wing battlestaff trainer and is comprised of academic preparation for serving in the TACC. The 100 level syllabus is made up of selected MACCS generic academic events that enhance the pilot's knowledge of the MACCS and Marine Aviation operations in a joint environment.

2. Combat Ready Training. Table 3-7 contains a listing of the combat readiness training events and associated page numbers.

Table 3-7.--Combat Readiness Training List.

EVENT	GOAL	PAGE
SYS-200	OPERATE COMMUNICATIONS EQUIPMENT	3-28
SYS-201	CONFIGURE NATIONAL SYSTEMS INFORMATION	3-28
SYS-202	CONDUCT TACC OPERATIONS IN AN NBC ENVIRONMENT	3-29
SYS-203	OPERATE THE IOW SYSTEM	3-29
SYS-204	OPERATE TBMCS	3-30
SYS-205	OPERATE AFTADS	3-30
SYS-206	OPERATE MSCS	3-31
CBC-210	CONDUCT CLOSE BATTLE CELL PLANNING	3-32
CBC-211	PERFORM AS CBC	3-32
CBC-212	PERFORM AS CBC	3-33
DAOM-220	CONDUCT DEEP BATTLE CELL PLANNING	3-35
DAOM-221	PERFORM AS DAOM	3-35
DAOM-222	PERFORM AS DAOM	3-37
ABT-230	PERFORM ABT PLANNING FUNCTIONS	3-38
ABT-231	PERFORM AS ABT; EXERCISE	3-39
ABT-232	PERFORM AS ABT; EXERCISE	3-39
PRC-240	CONDUCT CSAR/TRAP PLANNING	3-40
PRC-241	PERFORM AS PRC; EXERCISE	3-41
ORDP-250	PERFORM AS ORDP	3-43
ATOMP-260	CONDUCT ATO MISSION PLANNING	3-45
ATOMP-261	PERFORM AS ATOMP; EXERCISE	3-46
QUAL-280	QUALIFY THE TACCO AS CBC	3-34
QUAL-281	QUALIFY THE TACCO AS DAOM	3-37
QUAL-282	QUALIFY THE TACCO AS ABT	3-39
QUAL-283	QUALIFY THE TACCO AS PRC	3-42
QUAL-284	QUALIFY THE TACCO AS ORDP	3-44
QUAL-285	QUALIFY THE TACCO AS ATOMP	3-46
DESG-290	DESIGNATE THE TACCO AS CBC	3-47
DESG-291	DESIGNATE THE TACCO AS DAOM	3-47
DESG-292	DESIGNATE THE TACCO AS ABT	3-47
DESG-293	DESIGNATE THE TACCO AS PRC	3-47
DESG-294	DESIGNATE THE TACCO AS ORDP	3-47
DESG-295	DESIGNATE THE TACCO AS ATOMP	3-47

3. Combat Qualification Training. Table 3-8 contains a listing of the combat readiness training events and associated page numbers.

Table 3-8.--Combat Qualification Training List.

EVENT	GOAL	PAGE
CBA-300	PERFORM TARGETING ANALYSIS AS CBA	3-48
CBA-301	MONITOR DASC/CLOSE BATTLE CELL ACTIVITY	3-49
DBA-310	PERFORM TARGETING ANALYSIS AS DBA	3-50
DBA-311	MONITOR DEEP BATTLE CELL ACTIVITY	3-51
ATOPRO-320	PERFORM ATO PRODUCTION FUNCTIONS	3-53
ATOPRO-321	PERFORM AS ATOPRO; EXERCISE	3-53
ORDO-330	PERFORM ORDO FUNCTIONS	3-55
ORDO-331	PERFORM AS ORDO; EXERCISE	3-56
ATOPLO-360	CONDUCT ATO PLANNING FUNCTIONS	3-57
ATOPLO-361	PERFORM AS ATOPLO; EXERCISE	3-58
QUAL-380	QUALIFY THE TACCO AS CBA	3-49
QUAL-381	QUALIFY THE TACCO AS DBA	3-52
QUAL-382	QUALIFY THE TACCO AS ATOPRO	3-54
QUAL-383	QUALIFY THE TACCO AS ORDO	3-56
QUAL-384	QUALIFY THE TACCO AS ATOPLO	3-58
DESG-390	DESIGNATE THE TACCO AS CBA	3-59
DESG-391	DESIGNATE THE TACCO AS DBA	3-59
DESG-392	DESIGNATE THE TACCO AS ATOPRO	3-60
DESG-393	DESIGNATE THE TACCO AS ORDO	3-60
DESG-394	DESIGNATE THE TACCO AS ATOPLO	3-60

4. Full Combat Qualification Training. Table 3-9 contains a listing of the full combat qualification training events and associated page numbers.

Table 3-9.--Full Combat Qualification Training List.

EVENT	GOAL	PAGE
SWO-400	PERFORM AS SWO; EXERCISE	3-61
SWO-401	PERFORM AS SWO; EXERCISE	3-62
ATODO-410	PERFORM ATODO FUNCTIONS	3-63
ATODO-411	PERFORM AS ATODO; EXERCISE	3-64
QUAL-480	QUALIFY THE TACCO AS SWO	3-62
QUAL-481	QUALIFY THE TACCO AS ATODO	3-64
DESG-490	DESIGNATE THE TACCO AS SWO	3-65
DESG-491	DESIGNATE THE TACCO AS ATODO	3-65

5. Instructor Qualification Training. None.

6. Special Skills Training And Designation. Table 3-10 contains a listing of the special skills training and designations events and associated page numbers.

Table 3-10.--Special Skills Training and Designations.

EVENT	GOAL	PAGE
ADC-600	CONDUCT AIR DEFENSE PLANNING	3-66
ADC-601	PERFORM AS ADC; EXERCISE	3-67
ADC-602	PERFORM AS ADC; EXERCISE	3-68
AAP-610	CONDUCT AIRSPACE/CONTROL MEASURES PLNG	3-69
AAP-611	CONDUCT AIR DEFENSE PLANNING FUNCTIONS	3-70
AAP-612	CONDUCT AIR SUPPORT PLANNING FUNCTIONS	3-71
COPS-620	PERFORM AS COPSO; EXERCISE	3-72
FOPS-630	SUPERVISE FUTURE OPS ACTIVITIES	3-74
FPNO-640	SUPERVISE FUTURE PLANS ACTIVITIES	3-76
QUAL-680	QUALIFY THE TACCO AS ADC	3-68
QUAL-681	QUALIFY THE TACCO AS AAP	3-71
QUAL-682	QUALIFY THE TACCO AS COPSO	3-73
QUAL-683	QUALIFY THE TACCO AS FOPSO	3-75
QUAL-684	QUALIFY THE TACCO AS FPNO	3-77
DESG-690	DESIGNATE THE TACCO AS ADC	3-78
DESG-691	DESIGNATE THE TACCO AS AAP	3-78
DESG-692	DESIGNATE THE TACCO AS COPSO	3-79
DESG-693	DESIGNATE THE TACCO AS FOPSO	3-79
DESG-694	DESIGNATE THE TACCO AS FPNO	3-79

7. Operator Core Skills. Core skills are individual skills that support unit METLs. Core skills are general task areas, further subdivided into like events and are normally delineated as T&R stage titles. Individuals must gain and maintain proficiency in core skills in order to execute the unit core capability. Core skills, as it applies here, are introduced in FRS, entry level MOS school training and allow individuals to be combat qualified in their applicable primary MOS. Personnel with MOS 75xx coming to the TACC will have their MOS specific core skills and begin core plus skills/tasks.

8. Operator Core Plus Skills. Core plus skills directly support the METL for each unit; they are depicted in table 3-11. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on training requirements and missions likely to be assigned during operations.

Table 3-11.--Core Plus Skills/Tasks.

METL	SYS	CBC	DAOM	ABT	PRC	ORD/ ATO	CBA/ DBA	SWO
A	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
B	200 201 202 203 204 205 206				240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
C	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
D	201	210	220	230 282	240 283			400 401 480
E	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
F	200 201 202 203 204 206		220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
G	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
H	200 201 202 203 204 205	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331	300 301 310	400 401 480

METL	SYS	CBC	DAOM	ABT	PRC	ORD/ ATO	CBA/ DBA	SWO
	206					360 361 382 383 384 410 411 481	311 380 381	

Table 3-11.--Core Plus Skills/Tasks--Continued.

METL	SYS	CBC	DAOM	ABT	PRC	ORD/ ATO	CBA/ DBA	SWO
I	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
J	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
K	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283			400 401 480
L	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
M	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
N	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480
O	200 201 202 203 204 205 206	210 211 212 280	220 221 222 281	230 231 232 282	240 241 283	250 260 261 284 285 320 321 330 331 360 361 382 383 384 410 411 481	300 301 310 311 380 381	400 401 480

303. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding officers will ensure this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation 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 those critical skills required in combat is essential.

3. Commanders shall ensure all tactical training is conducted to T&R standards, as outlined in MCO P3500.14. All syllabus events shall be tailored to meet T&R requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors, which all commanders must address, include, but are not limited to:

a. Efficiency. Time and resources expended are measurements for training efficiency. Commanders must ensure all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. Individual Differences. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. Decentralization of Training. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. 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.

6. Risk Management. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision-making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. MACCS Integrated System Training. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated air command and control system. Large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. TADIL agencies should conduct frequent "link" training exercises to maintain proficiency.

304. TACTICAL AIR COMMAND CENTER OFFICER TRAINING PROGRESSION PHILOSOPHY. The purpose of this syllabus is to develop and refine those skills required for the TACCO to function as a SWO and/or ATODO within a core capable TACC Current/Future Operations crew. The progression of the TACCO through the syllabus has been tailored towards that end. It is incumbent upon the MAW commander’s designated representative to ensure each event is completed in accordance with each performance standard established for an event.

305. TACCO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCO is depicted in figure 3-1.

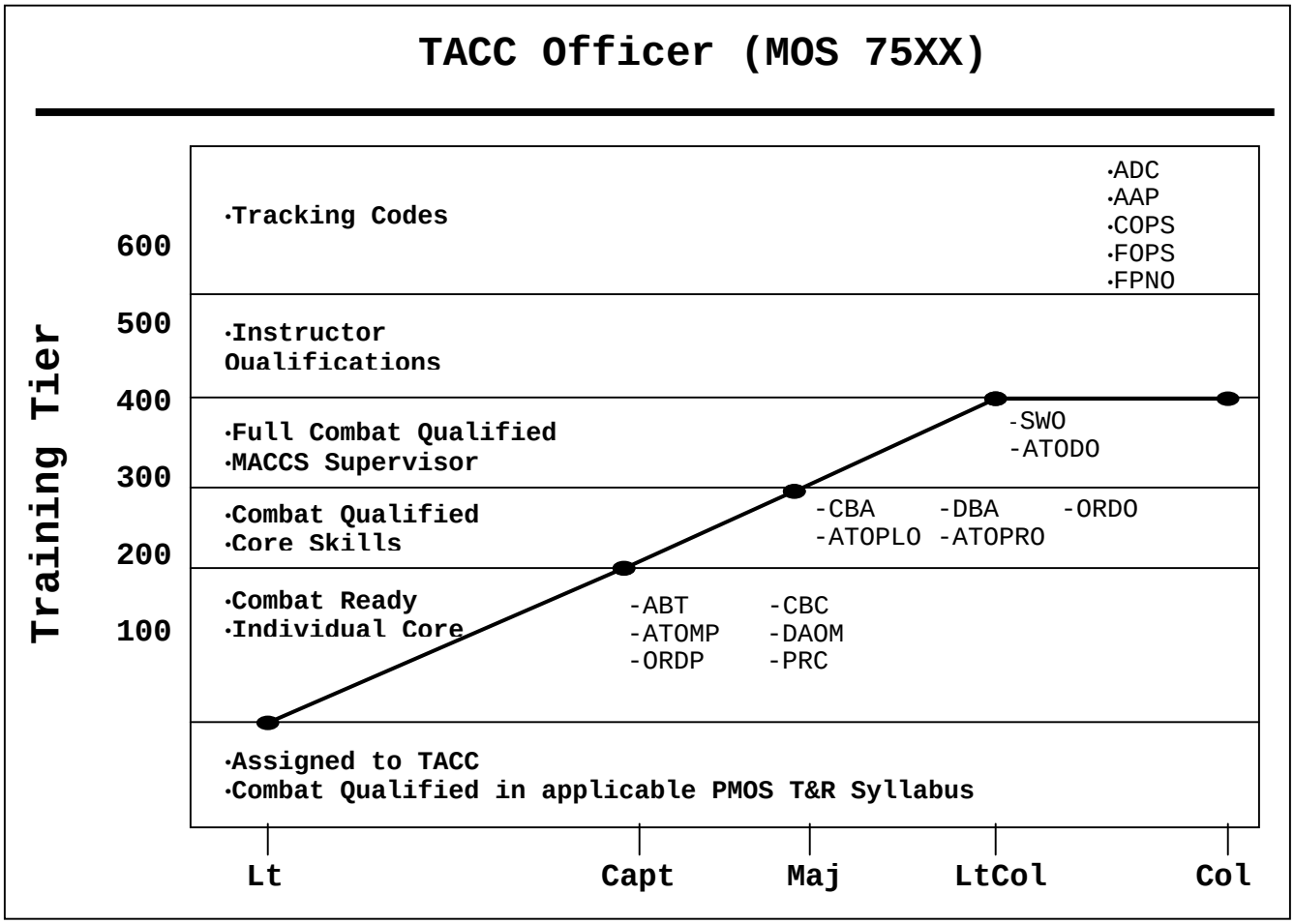

Figure 3-1.--TACCO (MOS 75XX) Training Progression Model.

Note: Training Progression for MOS 75XX is not predicated on a notional timeline. T&R syllabus training requirements are tailored to specific TACC billet responsibilities. Preceding qualifications in the training progression are recommended but not a prerequisite for higher qualifications like SWO.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those “accession” qualifications an individual has received after completion of an MOS-qualifying school. The highest tier of the progression model contains those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable phase is normally accomplished at the completion of individual’s initial MOS skills training. With successful completion of the combat capable phase, unit personnel are assigned their MOS qualification and progress to the Combat Ready phase.

4. The Combat Ready phase delineates qualifications normally made available to inexperienced personnel. This phase takes individuals who have completed initial MOS skills training and makes them proficient in core competencies. With successful completion of the Combat Readiness phase, unit personnel progress to the Combat Qualification phase.

5. The Combat Qualification phase is the portion of the model that produces combat leaders and fully qualified crewmembers. Personnel trained in the Combat Qualification phase are those whom a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full Combat Qualification phase contains special skills that are not prerequisite to combat qualification, or the ability to function as combat leaders. A certain number of Full Combat qualified individuals must be maintained to accomplish assigned missions or tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit’s training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear training progression model and an emphasis on qualifying of "Combat Ready" and "Combat Qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

306. PROGRAMS OF INSTRUCTION (POI) FOR TACCO. There currently is no formal-school training provided for TACC personnel.

307. MISSION QUALIFICATIONS/DESIGNATIONS

1. Tactical Air Command Center (TACC)

a. Current Operations Section (COS)

(1) Current Operations Officer (COPSO) Qualification. A Marine officer is COPSO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a COPSO by the MAW commander. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(2) Senior Watch Officer (SWO) Qualification. A Marine officer is SWO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a SWO by the MAW commander. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(3) Close Battle Coordinator (CBC) Qualification. A Marine officer (MOS 75XX) is CBC qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a CBC by a designated SAC and designated CBC qualified by the MAW commander's representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(4) Deep Air Operations Manager (DAOM) Qualification. A Marine officer (MOS 75XX) is DAOM qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a DAOM by a designated SAC and designated DAOM qualified by the MAW commander's representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(5) Air Defense Coordinator (ADC) Qualification. A Marine officer (MOS 75XX) is ADC qualified after completing required training events of the appropriate T&R syllabus. The MACCS officer shall be certified as an ADC by a designated SAC and designated ADC qualified by the MAW commander's representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(6) Air Battle Analyst (ABA) Qualification. A Marine officer (MOS 75XX) is ABA qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified an ABA by a designated SAC and designated ABA qualified by the MAW commander's representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(7) Personnel Recovery Coordinator (PRC) Officer Qualification. A Marine officer (MOS 75XX) is PRC qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as a PRC by a designated SAC and designated PRC qualified by the MAW commander's representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

b. Future Operations Section (FOS)

(1) Future Operations Officer (FOPSO) Qualification. A Marine officer is FOPSO qualified after completing required events of the appropriate T&R syllabus. The officer shall be certified and designated a FOPSO by the MAW commander. A designation letter shall be entered into the officer’s Aircew/MACCS Performance Record.

(2) ATO Development Officer (ATODO) Qualification. A Marine officer (MOS 75XX) is ATODO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATODO by the MAW G3 and designated ATODO qualified by the MAW commander’s representative. A designation letter shall be entered into the officer’s Aircrew/MACCS Performance Record.

(3) ATO Production Officer (ATOPRO) Qualification. A Marine officer (MOS 75XX) is ATOPRO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPRO by

the MAW G3 and designated ATOPRO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

(4) ATO Plans Officer (ATOPLO) Qualification. A Marine officer (MOS 75XX) is ATOPLO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPLO by the MAW G3 and designated ATOPLO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

(5) Orders Development Officer (ORDO) Qualification. A Marine officer (MOS 75XX) is ORDO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDO by the MAW G3 and designated ORDO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

(6) Orders Development Planner (ORDP) Qualification. A Marine officer (MOS 75XX) is ORDP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDP by the MAW G3 and designated ORDP qualified by the MAW commander's designated representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

(7) ATO/ACO Planner (AAP) Qualification. A Marine officer (MOS 75XX) is AAP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an AAP by the MAW G3 and designated AAP qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

(8) ATO Mission Planner (ATOMP) Qualification. A Marine officer (MOS 75XX) is ATOMP qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOMP by the MAW G3 and designated ATOMP qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

c. Future Plans Section

(1) Future Plans Officer (FPNO) Qualification. A Marine officer (MOS 75XX) is FPNO qualified after completing required training events of the appropriate T&R syllabus. The officer shall be certified as an FPNO by the MAW G3 and designated FPNO qualified by the MAW commander's representative. A designation letter shall be entered into the officer's Aircrew/MACCS Performance Record.

310. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders strongly encouraged to incorporate the lectures in table 3-12 into their training plan. Selected MACCS generic academics classes have been incorporated as the Combat Capable stage of training (100 level) for aviators (refer to paragraph 332). Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 3-12.--Recommended T&R Lectures.

LECTURE CODE	LECTURE TITLE	SPONSOR
	200 LEVEL: COMBAT READY TRAINING	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	v Control of Aircraft & Missiles	MAWTS-1
A-04	v Offensive Air Support	MAWTS-1
A-05	v Assault Support	MAWTS-1
A-06	v Electronic Warfare	MAWTS-1
A-07	v Aerial Reconnaissance	MAWTS-1
A-08	v Anti-Air Warfare	MAWTS-1
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	Local MACG
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	Local MACG MAW
A-14	MACCS Communications	MAWTS-1
A-15	TBMCS Overview	MAWTS-1
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES
	300 LEVEL: COMBAT QUALIFIED TRAINING	
B-01	Missile and UAV Threat to MAGTF	MAWTS-1
B-02	Fixed Wing Threat to the MAGTF	MAWTS-1
B-03	Rotary Wing Threat to the MAGTF	MAWTS-1
B-04	REC Threat	MAWTS-1
B-05	Armor Threat to the MAGTF	MAWTS-1
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	v TACC	MAWTS-1
B-08	v TAOC	MAWTS-1
B-09	v DASC	MAWTS-1
B-10	v ATC Detachment	MAWTS-1
B-11	v LAAD Bn	MAWTS-1
B-12	v MWCS	MAWTS-1
B-13		MAWTS-1
B-14	AC2W-ISR	MAWTS-1
B-15	Multi TADIL Network	MAWTS-1
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1
B-18	Airspace Planning/Management (Combat Airspace)	Local MACG MAW

Table 3-12.--Recommended T&R Lectures--Continued.

LECTURE CODE	LECTURE TITLE	SPONSOR
B-19	Tanker Management	MAWTS-1
B-20	Armed Reconnaissance	MAWTS-1
B-21	UAV Overview	MAWTS-1
B-22	Link Architecture & Procedures	Local MACG MAW
B-23	Introduction to Personnel Recovery	MAWTS-1
B-24	NEO Execution	MAWTS-1
B-25	Execution Checklist	MAWTS-1
	400 LEVEL: FULL COMBAT QUALIFIED TRAINING	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	Local MACG MAWTS-1
C-02	Joint Air Operations	MAWTS-1
C-03	TBM and CM Defense	MAWTS-1
C-04	JTAO Procedures	MCCES
C-05	Law of War and ROE	MAWTS-1
C-06	SIS Aircraft	MAWTS-1

(*) The lecture code is standardized throughout all MACCS related syllabi, and is used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 3-13 is recommended for personnel assigned to the TACC.

Table 3-13.--TACC Academics Syllabus.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)	MCCES	X	X	
T-06	ATOs AND ACOs		X	X	X
T-07	CBC RESPONSIBILITIES		X	X	
T-08	IBS/CTT	MAWTS-1	X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPS		X	X	X
T-14	JOINT AIR COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP	MAWTS-1	X	X	X
T-18	TBMCS CURRENT OPS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPS MESSAGES	MAWTS-1	X		

Table 3-13.--TACC Academics Syllabus--Continued.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X
T-23	EMERGENCY PROCEDURES		X	X	
T-24	ELECTRONIC PROTECTION CAPABILITIES	MAWTS-1	X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO C2W		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)	MCCES	X	X	X
T-32	MANUAL BACKUP TACC PROCEDURES		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDs		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	JOINT MUNITIONS EFFECTIVENESS MANUAL (JMEMS)	MAWTS-1	X	X	X
T-37	NATIONAL SYSTEMS TASKING PROCESS/CYCLE	MAWTS-1	X	X	
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL	MCCES	X	X	X
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	IMINT	MAWTS-1	X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-45	LMSIG	Logicon	X		
T-46	TACC EMPLOYMENT & PLANNING CONSIDERATIONS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	AOC OVERVIEW	C2WS	X	X	X
T-51	IOS IOS/IOW OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM	MAWTS-1	X	X	X
T-55	GMF OVERVIEW	MAWTS-1	X		
T-56	BASIC WEATHER		X	X	X
T-57	AFATDS		X	X	X
T-58	JOINT AIR OPERATIONS	MAWTS-1	X		
T-59	TBMCS FUTURE OPS. APPLICATIONS			X	
T-60	INFORMATION MANAGMENT AND CONNECTIVITY	MAWTS-1	X	X	
T-61	ELECTRONIC WARFARE COORDINATION CENTER	MAWTS-1	X	X	
T-62	ELECTRONIC TARGETING AND ATTACK	MAWTS-1	X	X	

Table 3-13.--TACC Academics Syllabus--Continued.

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
T-63	ALLIED SAMS	MAWTS-1	X	X	
T-64	ATARS EMPLOYMENT	MAWTS-1	X	X	
T-65	OAS PGMS	MAWTS-1	X	X	
T-66	ENVIRONMENTAL EFFECTS OF ELECTROMAGNETIC ENERGY	MAWTS-1	X	X	

3. External academic courses of instruction available to complete the syllabus are listed below:

COURSE	ACTIVITY
Joint Air Tasking Order Process Course (JATOPC)	C2WS
Joint Doctrine Air Campaign Course (JDACC)	AFCSC
JFACC Augmentation Staff Course	TACTRAGRUPAC
SWO Course	MAWTS-1
ACE Battlestaff Officer Course	MAWTS-1
Personnel Recovery 101 Course	JPRA
Personnel Recovery 301 Course	JPRA
JSSC Course	C2WS
WTI Course	MAWTS-1

311. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

PUBLICATION #	TITLE
ACP-125	Allied Communication Publication
CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	TBMCS Software User’s Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination.
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JtDivO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol. II	Threat Reference Manual
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1F	Targeting
MCRP 3-16.8B	MSP for the Joint Application of Firepower (J-FIRE)
MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations
MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles

MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (IOS)
TSC-125-96-U	IOS Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

320. LIVE/SIMULATOR EVENT TRAINING: TACCO (MOS 75XX)

1. COMBAT CAPABLE TRAINING

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT PARENT UNIT		60.00%

2. COMBAT READY TRAINING

STAGE	EVENTS	PERCENT
SYSTEMS TRAINING	7	2.00%
CLOSE BATTLE COORDINATOR TRAINING	4	2.50%
DEEP AIR OPERATIONS MANAGER TRAINING	4	2.50%
AIR BATTLE TASKER TRAINING	4	2.50%
PRC OFFICER TRAINING	3	2.00%
ORDERS DEVELOPMENT PLANNER TRAINING	2	1.50%
ATO MISSION PLANNER TRAINING	3	2.00%
TOTALS:	**27**	**15.00%**

3. COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
CLOSE BATTLE ANALYST TRAINING	3	4.00%
DEEP BATTLE ANALYST TRAINING	3	4.00%
ATO PRODUCTION OFFICER TRAINING	3	4.00%
ORDERS DEVELOPMENT OFFICER TRAINING	3	4.00%
ATO PLANS OFFICER TRAINING	3	4.00%
TOTALS:	**15**	**20.00%**

4. FULL COMBAT QUALIFICATION TRAINING

STAGE	EVENTS	PERCENT
SENIOR WATCH OFFICER TRAINING	3	2.5%
ATO DEVELOPMENT OFFICER TRAINING	3	2.5%
TOTALS:	**6**	**5.00%**

5. **INSTRUCTOR TRAINING**

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **SPECIAL SKILLS TRAINING**

STAGE	EVENTS	PERCENT
AIR DEFENSE COORDINATOR TRAINING	4	0.00%
ATO/ACO PLANNER TRAINING	4	0.00%
CURRENT OPERATIONS OFFICER TRAINING	2	0.00%
FUTURE OPERATIONS OFFICER TRAINING	2	0.00%
FUTURE PLANS OFFICER TRAINING	2	0.00%
Totals:	**14**	
TACCO (MOS 75XX) T&R TOTALS:	**48**	**100.00%**

330. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. General. The majority of the TACCO syllabus consists of ground training that requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a Fully Combat Qualified TACCO.

a. Live Training. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. Simulator Training. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the TACC. Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. Minimum Performance for Syllabus "Write-Off". Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written oral, or practical demonstration of proficiency, at the evaluator's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as

complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation.

3. Evaluation of Training. Evaluation of those portions of the syllabus, which are academic in nature, will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Administrative.

331. COMPONENTS OF A T&R EVENT. An event contained within a T&R Manual is an individual or collective training standard and contains seven or eight components, dependent on the phase in which they are contained:

1/	2/	3/	4/	5/	/6
SAM-XXX	0.5	R, E	EQUIP	L/S	(NS)

Goal. State the Terminal Learning Objective.

Requirements. List specific tasks for the event; indicate what the crew/individual must accomplish.

Performance Standards. Describe measurable level of proficiency for that core competency.

Prerequisites. List any tasks to be completed prior to this event.

References. Listing of doctrinal or reference publications that may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

External Syllabus Support. A listing or description of external support requirements that may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES

1/ Events are coded per Appendix B of T&R Manual, Administrative.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood). POI Codes: R = Refresher, E = Evaluated

4/ An ‘E’ indicates an evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; where contained within **( )** denotes optional conditions.

332. COMBAT CAPABLE TRAINING. All Combat Capable training (100 series) is accomplished at the MACS, MASS, or LAAD after completing the applicable primary MOS Combat Qualification Syllabus for each Marine.

333. COMBAT READY TRAINING

1. System Training

a. Purpose. To develop the skills required to maintain proficiency in operating TACC equipment.

b. General. Contains the tactical and technical information necessary to maintain system proficiency.

c. Prerequisite. None.

d. Live Training (10 Events)

SYS-200 R TACC L

Goal. Operate communications equipment.

Requirement. Demonstrate the use of tactical communications equipment, appropriate code words and communications brevity terms.

Performance Standards. Properly utilize communications suite:

(1) Internal communications (ICS).
(2) Radio nets.
(3) Switchboard nets and secure phones.
(4) Master proper authentication procedures.
(5) Utilize proper radio transmission procedures in both secure and clear modes.
(6) Successfully complete 80% of the above listed standards.

Prerequisites. Academics: A-14, A-18, A-19.

References. TACC TM's.

External Syllabus Support. External agencies.

SYS-201 R TACC L

Goal. Configure and interpret Integrated Broadcast Receiver (IBR) derived National Systems Data (NSD).

Requirements. Configure the IBR display to depict desired National Systems data.

Performance Standards. Demonstrate proficiency in the following

(1) Configure geographic, ELNOT based, and combined filtering scheme for TIBS, TDDS, and TADIXS-B data.
(2) Interpret location fidelity, time latency, and implications to operations of displayed ELINT information.
(3) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-206.
(2) Academics T-08.

References. TIBS/TDDS Broadcast Users Guide.

External Syllabus Support. IBR and IBS.

SYS-202 R TACC L/S

Goal. Conduct TACC operations in an NBC environment.

Requirements. Operate in a simulated NBC environment using MOPP equipment.

Performance Standards. Perform crew requirements while in MOPP level 4.

Prerequisites. NBCD training and MOPP level exchange

Reference. NBC Standard Operating Procedures.

External Syllabus Support. None.

SYS-203 R TACC L/S

Goal. Operate the IOW system.

Requirements. Create, edit and delete overlay and track information in IOW.

Performance Standards. Demonstrate proficiency in the following:

(1) Load maps into the IOW workstation.
(2) Connect IOW workstation to gateway.
(3) Create overlays.
(4) Import/export overlays to/from UB Host.
(5) Transmit an overlay.
(6) Successfully complete 80% of the above listed standards.

Prerequisites. Academics: T-10, T-29, T-51.

References. TSC-125-97-U, IOS Student Guide.
External Syllabus Support. None.

SYS-204 R TACC L/S

Goal. Operate TBMCS.

Requirements. Proficient in Current Operations applications of TBMCS.

Performance Standards. Demonstrate proficiency in the following:

(1) Properly login/logout of the TBMCS workstation.
(2) Properly manipulate the Common Operating Environment.
(3) Properly demonstrate proficiency in:
    (a) EM Replanner.
    (b) EM Reports.
    (c) EMC.
    (d) ATO/ACO Tool.
    (e) TK Talk.
    (f) E Mail.
    (g) User Alerts.
    (i) CAST/WARP.
    (j) Chat Utility.
(4) Successfully complete 80% of the above listed standards.

Prerequisites. Academics: A-15, T-10, T-29.

References. TBMCS, C2WS CBT.

External Syllabus Support. None.

SYS-205 R TACC L/S

Goal. Demonstrate proficiency in AFATDS setup and operation.

Requirements. Setup and operate AFATDS.

Performance Standards. Demonstrate proficiency in the following:

(1) Interoperate with TBMCS in all six functional areas.
(2) Understand proper nomenclature of all system components.
(3) Create fire support coordination measure overlays.
(4) Receive and respond to Joint Tactical Air Requests (JTARS) and Air Support Requests (ASR).
(5) Pass overlays and requests to outlying MAGTF agencies.
(6) Understand connectivity requirements for AFATDS operations.
(7) Create, modify, and delete unit position tracks.
(8) Successfully complete 80% of the above listed standards.

Prerequisite. T-57.

Reference. AFATDS TM.

External Syllabus Support. TBMCS, DASC, and GCE component agencies.

SYS-206 R TACC L/S

Goal. Proficient in Multiple Source Correlation System operation.

Requirements. Operate MSCS.

Performance Standards. Demonstrate the ability to:

(1) Login to MSCS.
(2) Create/display/manipulate zones, overlays, and tracks.
(3) Edit Track Data display.
(4) Modify display defaults.
(5) Display data link/filter status.
(6) Modify display using system/status commands.
(7) Successfully complete 80% of the above listed standards.

Prerequisite. T-33.

Reference. MSCS Operator Reference Guide.

External Syllabus Support. None.

2. Close Battle Coordinator (CBC) Training

a. Purpose. To refine TACCO skills required for CBC qualification and to provide a means for the CBC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CBC qualification.

(b) During each period, the TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of close air support missions in support of the MAGTF close battle, and functioning as a member of the COS.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Combat Ready in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet, the TACCO will complete the "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, may be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

CBC-210 R TACC L

Goal. Close Battle Cell planning.

Requirement. Participate in Close Battle Cell Planning.

Performance Standard. Demonstrate proficiency in the following:

(1) Prepare the Close Battle Cell portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, PCH, etc.) and assist in the development of the close/rear battle plans for the MAGTF.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Strike Operations planning, as required.
(5) Assist in planning of emissions control measures, as required.
(6) Assist in planning for CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-203, SYS-204, SYS-205.
(2) Completion of MACCS Academic COI (200 level)
(3) Academics: B-01- B-07, B-09, B-16, B-17, B-18, B-20, B-21, B-23 - B-25, C-01 - C-03, T-04 - T-07, T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57, T-61, T-62, T-65.

References. MCWP 3-25 series, MCWP 3-23.1, local SOPs.

External Syllabus Support. None.

CBC-211 R TACC S/L

Goal. Perform as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct Close Battle Cell portion of TACC crew briefing.
(2) Acquire and maintain current information concerning status and operations of air missions supporting the MAGTF close battle.
(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.
(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.
(5) Maintain communications with DASC, MAGTF air officer, MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend COAs that support JTARs/ASRs/CASEVACs to the CAS/SWO, based upon asset availability.
(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.
    (e) Coordinate the scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the close battle situation.
(10) Coordinate modification of ACMs/FSCMs, as required.
(11) Coordinate with the Intelligence Watch Section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy COAs.
(12) Coordinate with the Ground Watch Section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Supervise the conduct of the Close Battle Cell.
(14) Monitor equipment status and operational posture of C3 agencies relative to the close battle, as required.
(15) Maintain appropriate logs.
(16) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-203, SYS-204, SYS-205.
(2) Completion of MACCS Academic COI (200 level).
(3) Academics: B-01- B-07, B-09, B-16, B-17, B-18, B-20, B-21, B-23 - B-25, T-04 - T-07, T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57, T-61, T-62, T-64, T-65.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

External Syllabus Support. External C3 agencies.

CBC-212 R TACC L/S

Goal. Perform as a CBC.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in CBC-211.

(2) Successfully complete 80% of the above listed standards.

Prerequisites. CBC 210 and CBC-211.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

External Syllabus Support. External C3 agencies.

QUAL-280 R E TACC L

Goal. Qualify the TACCO as a CBC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in CBC-210 and CBC-211.
(2) Successfully complete 80% of above standards listed.

Prerequisite. CBC-212.

References. MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, local SOPs.

External Syllabus Support. External C3 agencies.

3. Deep Air Operations Manager (DAOM) Training

a. Purpose. To refine skills required for DAOM qualification and to provide a means for the DAOM to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for DAOM qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of deep air support missions in support of the MAGTF deep battle, and functioning as a member of the COS.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Combat Ready in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

DAOM-220 R TACC L

Goal. Conduct Deep Battle Cell planning.

Requirement. Plan for Deep Air Operations in support of a GCE.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the Deep Battle Cell portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, BSM, RAGM, etc.) and assist in the development of the deep battle plan.
(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.
(4) Assist in TMD Attack Operations planning, as required.
(5) Plan for integration of joint and combined C4ISR assets.
(6) Assist in the planning for CSAR/TRAP/CASEVAC operations, as required.
(7) Coordinate with external agencies for information flow requirements.
(8) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-204.
(2) Academics: A-01, A-02, A-04 A-09, A-12, A-13, B-07, B-09, B-10, B-14, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-28 - T-31, T-34, T-35, T-39 - T-44, T-50, T-54 - T-56, T-58, T-64, T-65.

References. MCWP 3-25 series, local SOPs.

External Syllabus Support. None.

DAOM-221 R TACC S/L

Goal. Perform as a DAOM.

Requirements. During an exercise.

Performance Standards. Perform duties as DAOM in the following:

(1) Conduct the Deep Battle Cell portion of the TACC crew brief.
(2) Acquire and maintain current information on the status and operations of air missions in support of the deep battle.
(3) Advise the SWO/SAC on the employment of air assets in support of the deep battle.

(4) Coordinate the synchronization of air operations in support of the deep battle within the ATO cycle.
(5) Maintain communications with the DASC/Deep Air Operations Coordinator, MAGTF air officer, the MAGTF fire support coordinator, AOC/BCD, or other agencies, as required.
(6) Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/CASEVAC information.
(7) Recommend COAs that support JTAR/ASR/CASEVACs to the SAC/SWO based upon asset availability.
(8) Make Recommendations to the SWO/COC to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.
    (e) Coordinate the scramble and reconstitution of on-call strip alert missions.
(9) Ensure information is kept current and the SAC is updated concerning the deep battle situation.
(10) Coordinate modification of ACMs/FSCMs, as required.
(11) Coordinate with the Intelligence Watch Section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy COAs.
(12) Coordinate with the Ground Watch Section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.
(13) Monitor equipment status and operational posture of C3 agencies relative to the deep battle, as required.
(14) Review MAGTF/JFC targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least four hours prior to execution.
(15) Coordinate with ACI Target Intelligence Section to receive updated targeting and BHA information.
(16) Receive MISREPS for passage to the Intelligence Watch Section for review and processing.
(17) Recommend to the SWO, in conjunction with the ACI target intelligence section, dynamic retasking of air assets in response to emergent targets in the deep battle area.
(18) Brief the SWO on the impact on the deep battle of shifting assets during the current ATO.
(19) Recommend changes to/or identify preplanned ordnance configurations in response to target changes or weather conditions.
(20) Supervise the conduct of the Deep Battle Cell.
(21) Maintain appropriate logs.
(22) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-203 - SYS-205.
(2) Academics: T-37, T-41.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

DAOM-222 R TACC L/S

Goal. Perform as a DAOM.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in DAOM-601.
(2) Successfully complete 80% of above standards listed.

Prerequisites. DAOM-220, DAOM-221.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

QUAL-281 R E TACC L/S

Goal. Qualify the TACCO as a DAOM.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in DAOM-601.
(2) Successfully complete 80% of the above listed standards.

Prerequisite. DAOM-222.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

4. Air Battle Tasker (ABT) Training

a. Purpose. To refine TACCO skills required for ABT qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ABT qualification.

(b) The ABT must demonstrate proficiency in utilizing TBMCS in the TACC COS to supervise and direct daily aviation operations.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) Prerequisites. Combat Ready in primary MOS.

(3) Refresher Training. Refresher training is required once a Combat Qualified TACCO has been absent from an ABT billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training may be conducted prior to and concurrent with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ABT-230 R TACC L

Goal. Perform ABT planning functions.

Requirement. During an exercise.

Performance Standards. Participate in CBC-210, DAOM-220, and ADC-600 planning events as appropriate.

Prerequisites

(1) SYS-200, SYS-204.
(2) Academics: A-04 - A-09, A-12, A-13, B-07 - B-10, B-14, B-16, B-18 - B-21, B-23 - B-25, C-01, C-02, C-06, T-01, T-03 T-08, T-10, T-13 - T-18, T-22 - T-24, T-28 - T-31, T-34, T-35, T-36, T-38 - T-44, T-50, T-54 - T-56.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

External Syllabus Support. None.

ABT-231 R TACC S/L

Goal. Perform ABT functions.
Requirement. During an exercise.

Performance Standards. Perform functions in the following:

(1) Build a report in EMC and EMR.
(2) Execute MSN replanning, change TOS, TGT, Tanking information, Kill box and MSN info.
(3) Submit a MSN change to the ATO.
(4) Be proficient with TK Talk, Chat & User Alerts.
(5) Submit MSN info as required.
(6) Add, change, delete missions in EMC and EMR.
(7) Coordinate asset availability, mission changes, launch information, and other critical information as appropriate with the supporting aviation units.
(8) Successfully complete 80% of the above listed standards.

Prerequisites. SYS-200, SYS-204.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

External Syllabus Support. External C3 agencies, aircraft.

ABT-232 R TACC L/S

Goal. Perform ABT functions.

Requirement. During an exercise.

Performance Standards. Successfully complete 80% of the ABT-231 standards.

Prerequisites. ABT-230 and ABT-231.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

QUAL-282 R E TACC L/S

Goal. Qualify the TACCO as an ABT.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ABT-230 and 231.
(2) Successfully complete 80% of the listed standards.

Prerequisite. ABT-232.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies, fixed and rotary wing aircraft, simulation or live.

5. Personnel Recovery Coordinator (PRC) Training

a. Purpose. To refine the skills required for PRC designation PRC and provide a means for the designated PRC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for PRC qualification.

(b) The Combat Capable TACCO must demonstrate proficiency in coordinating personnel recovery missions by completing the PRC training syllabus.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Completion of the Combat Ready stage of training and attend the Personnel Recovery 101 course. Personnel Recovery 301 course is encouraged, but not required.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a PRC billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

PRC-240 R TACC L

Goal. Conduct Personnel Recovery planning.

Requirement. Plan establishment of the component RCC

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the RCC portion of the TACC crew brief.
(2) Assist in the development of the JCSARTF/TRAP plan.
(3) Setup/design the component RCC.

(4) Assist in planning for PR communications.
(5) Assist in the development and preparation of execution checklists, as required.
(6) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-204.
(2) Academics: B-04, B-05, B-13, T-12, T-36, T-37.
(3) PRC 101 Course.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

PRC-241 R TACC S/L

Goal. Perform as a PRC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the RCC portion of the TACC crew brief.
(2) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/survivability for PR operations.
(3) Supervise the activation and monitoring of PR communications and execution checklists, as required.
(4) Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR) and SAR Situation Report (SAR SIT)).
(5) Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations.
(6) Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JSRC/adjacent RCCs).
(7) Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL.
(8) Ensure CSAR/TRAP case folders are completed and maintained.
(9) Monitor and update location/availability of CSAR/TRAP assets.
(10) Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.).
(11) Successfully complete 80% of the above listed standards.

Prerequisite. PRC-240.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

QUAL-283	R E	TACC	L/S

Goal. Qualify the TACCO as a PRC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in PRC-240 and PRC-241.
(2) Successfully complete 80% of above standards listed.

Prerequisite. PRC-241.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

6. Orders Development Planner (ORDP) Training

a. Purpose. To refine the skills required for ORDP designation within the FOS and provide a means for the designated ORDP to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ORDP qualification.

(b) By syllabus completion, must demonstrate proficiency in developing ACE OPORDs/FRAGOs and conducting current planning for aviation requirements/events that occur beyond the ATO currently being planned but short of the next FRAGORD being developed.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisites. Combat Ready in primary MOS.

(3) Refresher Training. Refresher training is required once a Combat Qualified TACCO has been absent from a ORDP billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete the "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

ORDP-250 R TACC L

Goal. Perform as an ORDP.

Requirement. Participate in the Orders Development Section of the FOS.

Performance Standards. Perform functions in the following:

(1) Assist in the development of air OPORDs/FRAGOs based upon air support plans prepared by the future plans section.
(2) Plan and coordinate aviation requirements to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans:
    (a) Helicopter Operations (tasking, routes, escort).
    (b) Projected strike packages.
    (c) CSAR/TRAP operations.
    (d) Suppression of Enemy Air Defense (SEAD) operations.
    (e) Air command and control support requirements.
    (f) Aviation support requirements.
(3) Coordinate with the ORDO in matters pertaining to aviation orders development and near-term plans and requirements.
(4) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.
(5) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-204.
(2) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56, T-59, T-60.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, MCRW 3-16.8B, MCRP 3-23A.

External Syllabus Support. None.

QUAL-284 R E TACC L/S

Goal. Qualify the TACCO as an ORDP.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ORDP-250.
(2) Successfully complete 80% of the listed standards.

Prerequisite. ORDP-250.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, MCRW 3-16.8B, MCRP 3-23A.

External Syllabus Support. None.

7. ATO Mission Planner (ATOMP) Training

a. Purpose. To refine the skills required for ATOMP qualification and to provide a means for an ATOMP to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ATOMP qualification.

(b) Upon syllabus completion, the ATOMP must demonstrate proficiency in technical construction of the ATO.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) Prerequisites. Combat Ready in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from an ATOMP billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 200 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ATOMP-260	R	TACC	L

Goal. Conduct ATO mission planning.

Requirement. Perform as a member of the ATO Planning Section of the FOS during an exercise.

Performance Standards. Execute the following mission planning tasks:

(1) Receive and review the master air attack plan.
(2) Prepare worksheets to be used in the creation of the ACE master air attack plan to include:
    (a) Sequence and deconflict allocated air assets against the Marine Component prioritized target list.
    (b) Weaponeer and package air assets, as required, based on the threat, desired level of destruction and timeliness.
    (c) Deconflict simultaneous missions between other MAGTF/JFC lethal/non-lethal assets.
(3) Prepare sortie availability charts.
(4) Prepare aircraft flow sheets.
(5) Separate the Marine Component prioritized target list according to target sourcing (direct support targets/ common sourced targets) for submission to the Joint Force Commander.
(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.
(7) Prepare target planning worksheets and submit them to the ATOPLO for forwarding to the ATO production cell for input into the applicable electronic planning system.
(8) Prepare the SPINS, and any changes to the ACP and ADP for incorporation into the ATO.
(9) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.
(10) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-204.
(2) Academics: A-01 - A-09, A-12 - A-14, B-1 - B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-22, - T-24, T-30, T-34, T-36 - T-38, T-40, T-54 T-56, T-58 – T-66.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

ATOMP-261 R TACC L/S

Goal. Perform as an ATOMP.
Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ATOMP-260.

(2) Successfully complete 80% of the listed standards.

Prerequisite. ATOMP-260.

References. Same as ATOMP-260.

External Syllabus Support. External C3 agencies.

QUAL-285 R E TACC L/S

Goal. Qualify the TACCO as an ATOMP.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ATOMP-260.
(2) Successfully complete 80% of the listed standards.

Prerequisite. ATOMP-261.

References. Same as ATOMP-260.

External Syllabus Support. External C3 agencies.

8. Combat Ready Designations.

a. Purpose. To designate the TACCO as CBC, DAOM, ABT, PRC, ORDP, and ATOMP.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW commander’s designated representative.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) Prerequisites. Completion of the applicable Combat Ready stage of training.

c. Crew Requirements. None.

d. Academic Training. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. Designation Events (6 Events)

DESG-290 TACC

Goal. Designate the TACCO as CBC.

Prerequisite. QUAL-280.

DESG-291 TACC

Goal. Designate the TACCO as DAOM.

Prerequisite. QUAL-281.

DESG-292 TACC

Goal. Designate the TACCO as ABT.

Prerequisite. QUAL-282.

DESG-293 TACC

Goal. Designate the TACCO as PRC.

Prerequisite. QUAL-283.

DESG-294 TACC

Goal. Designate the TACCO as ORDP.

Prerequisite. QUAL-284.

DESG-295 TACC

Goal. Designation as ATOMP.

Prerequisite. QUAL-285.

334. COMBAT QUALIFICATION TRAINING

1. Close Battle Analyst (CBT) Training

a. Purpose. To develop TACCO skills required for CBA qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for CBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTF's close battle.

(c) At least one live CBA performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisite. Combat Qualified within primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a CBA billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

CBA-300	R	TACC	L/S

Goal. Perform targeting analysis.

Requirement. In the Close Battle Cell during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review Marine Component targeting guidance and combat assessment data (e.g. BHA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.
(2) Coordinate with the Intelligence Watch Section concerning updated targeting and BHA information.
(3) Coordinate with the Intelligence Watch Section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.

(4) Monitor Marine Component targeting guidance updates.
(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.
(6) Advise the SWO on the real-time employment of air assets to support the close battle.
(7) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-204, SYS-205.
(2) MAGTF Staff Training Program.
(3) Academics: A-01, A-04 - A-07, A-09, A-12, A-13, B-06, B-07, B-09, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22 - T-24, T-28 - T-31, T-34 - T-36, T-38 - T-44, T-54 - T-58, T-60 – T-66.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

CBA-301 R TACC L/S

Goal. Monitor Close Battle Cell activity.

Requirement. During an exercise.

Performance Standards. Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the Marine Component close battle.
(2) Analyze in-flight reports/BHA's and coordinate with the intelligence watch section for simultaneous review and processing.
(3) Assess the close battle and the requirement to shift ATO assets to support the ongoing battle.
(4) Coordinate with the CBC, the Ground Watch Section, the Marine Component air officer, the CSSE, and the Force Fires Coordination Center to maintain situational awareness.
(5) Coordinate with the Close Battle Cell concerning theater asset availability before recommending a COAs to the SWO.
(6) Successfully complete 80% of the above listed standards.

Prerequisite. CBA-300.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

QUAL-380 R E TACC L/S

Goal. Qualify the TACCO as a CBA.
Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in CBA-300 and CBA-301.
(2) Successfully complete 80% of the listed standards.

Prerequisites. CBA-300 and CBA-301.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

2. Deep Battle Analyst (DBA) Training

a. Purpose. To develop TACCO skills required for DBA qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for DBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the deep battle.

(c) At least one live DBA performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisite. Combat Qualified in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a DBA billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

DBA-310	R	TACC	L/S

Goal. Perform targeting analysis as a DBA.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review Marine Component targeting guidance and combat assessment data (e.g. BHA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.
(2) Coordinate with the Intelligence Watch Section concerning updated targeting and BHA information.
(3) Coordinate with the Intelligence Watch Section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.
(4) Monitor Marine Component targeting guidance updates.
(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.
(6) Advise the SWO on the real-time employment of air assets to support the deep battle.
(7) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-204, and SYS-205.
(2) MAGTF Staff Training Program.
(3) Academics: A-01, A-04 - A-07, A-09, A-12, A-13, B-06, B-07, B-09, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22 - T-24, T-28 - T-31, T-34 - T-36, T-38 - T-44, T-54 - T-58, T-60 – T-66.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

DBA-311 R TACC L/S

Goal. Monitor Deep Battle Cell activity.

Requirement. During an exercise.

Performance Standards. Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the Marine Component deep battle.
(2) Analyze in-flight reports/BHA's and coordinate with the Intelligence Watch Section for simultaneous review and processing.
(3) Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle.
(4) Coordinate with the Deep Battle Cell, the Ground Watch Section, the Marine Component air officer, and the Force Fires Coordination Center to maintain situational awareness.
(5) Coordinate with the Deep Battle Cell concerning theater asset availability before recommending a COA to the SWO.
(6) Successfully complete 80% of the above listed standards.

Prerequisite. DBA-310.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

QUAL-381 R E TACC L

Goal. Qualify the TACCO as a DBA.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Standards listed in DBA-310 and DBA-311.
(2) Successfully complete 80% of the listed standards.

Prerequisites. DBA-310 and DBA-311.

References. MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

External Syllabus Support. External C3 agencies.

3. ATO Production Officer (ATOPRO) Training

a. Purpose. To refine TACCO skills required for designation as an ATOPRO and provide a means for the designated ATOPRO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ATOPRO qualification.

(b) By syllabus completion, the ATOPR must demonstrate proficiency in supervising the ATO production cell in the technical construction and dissemination of the ATO, SPINS, and ACP/ADP inputs.

(c) At least one live and one simulated ATOPRO performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisite. Combat Qualified in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a ATOPR billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ATOPRO-320 R TACC L

Goal. Perform ATO production functions.

Requirement. Supervise production and dissemination of an ATO.

Performance Standards. Supervise an ATO Production cell:

(1) Receive and review the target planning worksheets from the ATO planning cell and input listed targets into the applicable electronic planning medium.
(2) Prepare ATO, SPINS, and ACP/ADP changes in accordance with the information, data, and guidance provided by the ATO planning cell.
(3) Print and deliver draft copies of the ATO for review by the ATO planning cell prior to release or forwarding.
(4) Maintain electronic connectivity with the JFACC for the submission of common sourced target nominations and the merging of the Marine Component direct support sorties into the ATO.
(5) Publish/transmit the ATO to higher, adjacent and subordinate commands using available electronic means per the dissemination plan.
(6) Monitor the status of the theater directed electronic planning and execution medium associated equipment to identify maintenance requirements and equipment problems.
(7) Successfully complete 80% of the above listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,AGOS Manual, Appropriate Tactics Manual (TACMAN),FMFM 5-1, FMFM 5-4.

Prerequisites

(1) JAC2C recommended but not required.
(2) ABOC, SYS-200, SYS-204.
(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-13 - T-15, T-17, T-22, T-23, T-30, T-34, T-37 -T-38, T-40, T-54 - T-56, T-58 – T-60.

External Syllabus Support. None.

ATOPRO-321 R TACC L/S

Goal. Perform as an ATOPRO.

Requirement. Supervise production and dissemination of an ATO during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Standards listed in ATOPRO-320.
(2) Successfully complete 80% of the listed standards.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. ATOPRO-320.

External Syllabus Support. None.

QUAL-382 E TACC L/S

Goal. Qualify the TACCO as an ATOPRO.

Requirement. Supervise production and dissemination of an ATO during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ATOPRO-320.
(2) Successfully complete 80% of above standards listed.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. ATOPRO-321.

External Syllabus Support. None.

4. Orders Development Officer (ORDO) Training

a. Purpose. To develop skills required for ORDO qualification and to provide a means for a TACCO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ORDO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the development of ACE operations/frag orders and conducting current planning for aviation requirements/events that occur beyond the ATO currently being planned but short of the next frag order being developed.

(2) Prerequisite. Combat Qualified in primary MOS.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew is required.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ORDO-330	R	TACC	L/S

Goal. Perform as an ORDO.

Requirement. Supervise the Orders Development Section during an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Stand up of the operational planning team.
(2) Develop operations orders/frag orders based upon support plans prepared by the future plans section.
(3) Plan and coordinate the following to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans:
    (a) Helicopter Operations (tasking, routes, escort).
    (b) Projected strike packages.
    (c) CSAR/TRAP/CASEVAC operations.
    (d) Suppression of Enemy Air Defense (SEAD) operations.
    (e) Air command and control support requirements.
    (f) Aviation support requirements.
(4) Assist with those functions required to meet ATO timelines.
(5) Coordinate with the ATODO and the FOPSO in matters pertaining to orders development and near-term plans and requirements.
(6) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.
(7) Successfully complete 80% of the above listed standards.

Prerequisites

(1) MAGTF Staff Training Program.
(2) JDACC (recommended, not required)
(3) SYS-200, SYS-204.
(4) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-06, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-22 - T-25, T-30, T-34, T-36 - T-40, T-50, T-54 - T-56, T-58 – T-66.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

ORDO-331 R TACC L/S

Goal. Perform as an ORDO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ORDO-330.
(2) Successfully complete 80% of the listed standards.

Prerequisite. ORDO-330.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

QUAL-383 R E TACC L/S

Goal. Qualify the TACCO as an ORDO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ORDO-330.
(2) Successfully complete 80% of above standards listed.

Prerequisite. ORDO-331.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

5. ATO Plans Officer (ATOPLO) Training

a. Purpose. To develop the skills required for ATOPLO designation and provide a means for the designated ATOPL to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ATOPLO qualification.

(b) At the completion of this syllabus, the TACCO must demonstrate proficiency in supervising the ATO planning cell in performing the

weaponeering and force application functions in the development of the Marine component master air attack plan.

(2) Prerequisite. Combat Ready stage of training complete.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized Future Operations section will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ATOPLO-360	R	TACC	L

Goal. Direct ATO planning.

Requirement. Perform as the ATOPL.

Performance Standards. Supervise the ATO Planning Section of the TACC in the following:

(1) Receive and review the Marine component master air attack plan.
(2) Prepare the Marine component master air attack plan to include:
    (a) Sequence and deconflict apportioned air assets against the MAGTF/JFC prioritized target list.
    (b) Weaponeer and package air assets, as required, based on threat, desired level of destruction and timeliness.
    (c) Deconflict simultaneous missions by other MAGTF/JFC lethal/non-lethal assets.
(3) Prepare sortie availability charts.
(4) Prepare aircraft flow sheets.
(5) Separate the Marine Component prioritized target list according to target sourcing (direct support targets/ common sourced targets) for submission to the joint force commander.
(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.
(7) Direct the preparation of the target planning worksheets and submit them to the ATO production cell for input into TBMCS.
(8) Direct the preparation of the SPINS, and any changes to the airspace control order and air defense plan for incorporation into the ATO.
(9) Perform final review of the ATO before release/forwarding.
(10) Ensure excess sortie flow and target planning worksheets are forwarded to the Marine liaison cell in the AOC combat plans division.

(11) Make adjustments to force packaging, routing, weapons loadout, or other tactics.
(12) Successfully complete 80% of the above listed standards.

Prerequisites

(1) JAC2C
(2) Academics: T-25, T-36, T-37, T-64.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

ATOPLO-361 R TACC L/S

Goal. Perform as an ATOPLO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All standards listed in ATOPL-360.
(2) Successfully complete 80% of the listed standards.

Prerequisite. ATOPL-360.

Reference. See ATOPL-360.

External Syllabus Support. None.

QUAL-384 R E TACC L/S

Goal. Qualify the TACCO as an ATOPLO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ATOPLO-361.
(2) Successfully complete 80% of above standards listed.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite. ATOPLO-361.

External Syllabus Support. None.

6. Combat Qualified Designations

a. Purpose. To designate the TACCO as a CBA, DBA, ATOPRO, ORDO, and ATOPLO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW commander’s designated representative.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) Prerequisite. Completion of the applicable Combat Qualification stage of training.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (5 Events)

DESG-390 TACC

Goal. Designate the TACCO as CBA.

Prerequisite. QUAL-380.

DESG-391 TACC

Goal. Designate the TACCO as DBA.

Prerequisite. QUAL-381.

DESG-392 TACC

Goal. Designate the TACCO as ATOPRO.

Prerequisite. QUAL-382.

DESG-393 TACC

Goal. Designate the TACCO as ORDO.
Prerequisite. QUAL-383.

DESG-394 TACC

Goal. Designate the TACCO as ATOPLO.

Prerequisite. QUAL-384.

335. FULL COMBAT QUALIFICATION TRAINING

1. Senior Watch Officer (SWO) Training

a. Purpose. To refine the skills required for SWO qualification and to provide a means for a SWO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for SWO Qualification.

(b) The TACCO must demonstrate proficiency in supervising the COS to ensure action is taken to optimize the employment of aviation resources.

(c) At least one live SWO performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. MAW Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified SWO has been absent from a SWO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

SWO-400	R	TACC	S/L

Goal. Perform as a SWO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Supervise the execution of the ATO:
  (a) Ensure situation and status displays are current and accurate.
  (b) Evaluate the capability of available forces to fulfill ATO tasking and recommend COAs to the COPSO when there is a shortfall.
  (c) Keep the COPSO informed on unanticipated developments or problems that may impact planned operations.
  (d) Make adjustments to the published ATO when required by the current situation.
  (e) Issue and document ATO adjustments.
(2) Be familiar with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities.
(3) Coordinate with SWOs of subordinate, adjacent, and senior air/ground agencies.
(4) Monitor reporting of all events.
(5) Adjudicate with the MAGTF/AOC any immediate JTARs/JTASRs that exceed the current planned allocation.
(6) Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander’s situation report, commander’s daily briefing, and as directed by the COPSO.
(7) Perform the functions of the COPSO, as required.
(8) Successfully complete 80% of the above listed standards.

Prerequisite

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.
(2) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

SWO-401 R TACC L/S

Goal. Perform as a SWO.

Requirement. During as exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) All standards listed in SWO-400.
(2) Successfully complete 80% of the listed standards.

Prerequisite. SWO-400.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

QUAL-480 R E TACC L/S

Goal. Qualify the TACCO as a SWO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in SWO-400.
(2) Successfully complete 80% of the listed standards.

Prerequisite. SWO-401.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. External C3 agencies.

3. ATO Development Officer (ATODO) Training

a. Purpose. To refine the skills required for ATODO qualification and to provide a means for the ATODO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ATODO qualification.

(b) By syllabus completion, the ATODO must demonstrate proficiency in supervising the conduct of the ATO planning and ATO production cells within the FOS.

(c) At least one live ATODO performance event will be conducted with a full TACC crew during an exercise.

(2) Prerequisites. Combat Qualified in primary MOS and successful completion of JAC2C.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

ATODO-410	R	TACC	L

Goal. Perform as an ATODO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Supervise the production of a timely and executable ATO.
(2) Ensure aviation and intelligence databases required for ATO planning and productions are current and accurate.
(3) Coordinate with the deep and close battle cells in current operations to receive feedback on published ATO.
(4) Coordinate with the SWO in current operations to ensure timely receipt of current battle information and monitor changes to the ATO being executed, which could affect the ATO(s) under development.
(5) Maintain contact with the joint air operations center (JAOC) combat plans division.
(6) Head the combat assessment board with BHA input from the target intelligence officer and munitions effectiveness and strike profiles from the flying units.
(7) Provide results of combat assessment board to the air officer and JAOC combat plans division.
(8) Successfully complete 80% of the above listed standards.

Prerequisites

(1) Combat Qualified in primary MOS.
(2) JAC2C.
(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-17 - B-18, C-01 - C-05, T-06, T-13 T-15, T-22, T-23, T-30, T-34, T-37, T-54 - T-56, T-58 – T-60.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. None.

ATODO-411 R TACC L/S

Goal. Perform as an ATODO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Provide input to the SWO pertaining to development of the current ATO for incorporation into the current operations crew brief.
(2) Standards listed in ATODO-410.
(3) Successfully complete 80% of the listed standards.

Prerequisites. ATODO-410.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. External C3 agencies.

QUAL-481 R E TACC L/S

Goal. Qualify the TACCO as an ATODO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ATODO-410 and ATODO-411.
(2) Successfully complete 80% of above standards listed.

Prerequisite. ATODO-411.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. External C3 agencies.

4. Full Combat Qualification Designation.

a. Purpose. To designate the TACCO as a SWO and an ATODO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) The MAW G3 will conduct a review of the TACCO's MPR and certify that the TACCO is qualified for designation in the applicable billet. The SWO designation will be forwarded to the MAW CG for signature. The ATODO designation will be forwarded to the MAW commander's designated representative.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, shall be filed and maintained in their MACCS Performance Record.

(2) Prerequisite. Completion of the applicable Full Combat Qualification stage of training.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (2 Events)

DESG-490 TACC

Goal. Designate the TACCO as SWO.

Prerequisite. QUAL-480.

DESG-491 TACC

Goal. Designate the TACCO as ATODO.

Prerequisite. QUAL-481.

336. SPECIAL SKILL QUALIFICATION TRAINING

1. Air Defense Coordinator (ADC) Training

a. Purpose. To refine TACCO skills required for ADC designation and provide a means for the designated ADC to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for ADC qualification.

(b) During designated events, the TACCO must demonstrate proficiency in coordinating air defense assets within the AO, maintaining Situational Awareness, utilization of proper report formats, communication procedures, and functioning as a member of the COS.

(c) At least one live and one simulated ADC performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) Prerequisites

(1)Combat Qualified in primary MOS.

(2) Previous TACC experience within Current Operations.

(3) Refresher Training. Refresher training is required once a combat qualified ADC has been absent from an ADC billet for 24 months or longer. Upon return to an appropriate billet the ADC will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

ADC-600	R	TACC	L

Goal. Conduct air defense planning.

Requirement. Participate in Air Defense Cell Planning.

Performance Standards. Demonstrate proficiency in the following:

(1) Prepare the air defense portion of the TACC crew brief.
(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, intentions message, etc.) and assist in the development of the ADP for the assigned area.
(3) Perform threat analysis for defended assets.
(4) Review and make recommendations for modification of airspace/air defense control measures, as required.
(5) Conduct TMD planning, as required.
(6) Participate in planning emissions/radiation control measures.
(7) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-204.
(2) Completion of the MACCS Academic COI (200 level).

(3) Academics: B-01 - B-03, B-07, B-08, B-10 -B-12, B-14, B-16, B-18, B-19, C-01 - C-06, T-01 - T-04, T-06, T-07, T-09 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-38, T-39, T-42 - T-44, T-50, T-54, T-56, T-58, T-60, T-63, T-66.

References. MCWP 3-25 series.

External Syllabus Support. None.

ADC-601 R TACC S/L

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Conduct the air defense portion of the TACC crew brief.
(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.
(3) Coordinate air defense operations of subordinate and external agencies, as directed.
(4) Initiate orders to air defense agencies and countermand subordinate agency actions, as required.
(5) Monitor equipment status and operational posture of C3 agencies relative to air defense, as required.
(6) Coordinate establishment and dissemination of air defense warning conditions/weapons control status/states of alert.
(7) Coordinate with the SADC/RADC/AADC concerning the execution of air defense missions.
(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:
    (a) Cancel missions and launches of preplanned missions in cases where requirements no longer exist.
    (b) Divert preplanned missions and provide mission briefings.
    (c) Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.
    (d) Direct launches of unscheduled missions and provide mission briefings.
    (e) Coordinate scramble and reconstitution of on-call (strip alert) missions.
(9) Ensure information is kept current and the SAC is updated concerning the air defense situation.
(10) Coordinate:
    (a) Modification of ADCMs, as required.
    (b) Changes to sectors of responsibility, as required.
    (c) Changes to established ROE, as required.
    (d) Changes to EMCON/RADCON status, as required.
    (e) Flow of air defense information/reports.
(11) Ensure established cross-tell procedures are utilized by the air defense section, as required.
(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-201, SYS-203, SYS-204, SYS-206.
(2) Completion of the MACCS Academic COI (200 level).
(3) Academics: B-01 - B-03, B-07 - B-08, B-10 -B-12, B-14, B-16, B-18, B-19, C-01 - C-06, T-01 - T-04, T-06 – T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-38 - T-39, T-42 - T-44, T-50, T-54, T-56, T-58, T-60, T-63, T-66.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

External Syllabus Support. External C3/AD agencies.

ADC-602 R TACC L/S

Goal. Perform as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All the requirements identified in ADC-601.
(2) Successfully complete 80% of the above listed standards.

Prerequisites. ADC-600 and ADC-601.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

External Syllabus Support. External C3/AD agencies.

QUAL-680 R E TACC L

Goal. Qualify the TACCO as an ADC.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in ADC-600 and ADC-601.
(2) Successfully complete 80% of above standards listed.

Prerequisite. ADC-601.

References. MCWP 3-25 series, Joint Pubs 3-01.4 and 3-01.5.

External Syllabus Support. External C3/AD agencies.

2. Air Tasking Order/Airspace Control Order Planner (AAP) Training

a. Purpose. To refine TACCO skills required for AAP designation and to provide a means for the designated AAP to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for AAP qualification.

(b) The TACCO must demonstrate proficiency in conducting Future Operations planning for Air Defense and Airspace Control Measures and Air Support operations.

(c) Non-qualification, evaluated events will be supervised by a designated AAP.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) Prerequisites. Completion of the MACCS Academic COI (200 level and designated 600 level courses). Completion of the Combat Ready stage of training is required prior to the qualification event, QUAL-381.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 300 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the qualification event.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (4 Events)

AAP-610	R E	TACC	L

Goal. Conduct airspace/control measures planning.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use.
(2) Coordinate airspace requirements and utilization procedures between GCE, ACE, CSSE, and external agencies to ensure safe and orderly control and movement of aircraft within the AO.
(3) Develop, review and standardize ATC procedures within the AO.
(4) Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations.
(5) Delegate responsibility for control of aircraft within the OPORD/ATO.

(6) Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO.
(7) Establish ACMs within the AO, as required.
(8) Enter required C2 information into applicable TBMCS databases.
(9) Successfully complete 80% of the above listed standards.

Prerequisites

(1) SYS-200, SYS-204
(2) Academics: A-01 - A-09, A-12 - A-14, B-06, B-17 - B-18, C-01 - C-05, T-06, T-13 - T-15, T-22, T-23, T-30, T-34, T-37, T-54 - T-56, T-58 – T-60.

References. MCWP 3-25 series, local SOPs, FMFRP 5-61.

External Syllabus Support. None.

AAP-611 R E TACC L

Goal. Conduct air defense planning.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, intentions message, etc.) and assist in the development of the air defense plan.
(2) Review and make recommendations for modification of airspace/air defense control measures, as required.
(3) Conduct TMD planning, as required.
(4) Participate in the planning and development of emissions/radiation control measures.
(5) Assist in the development of the destruction area.
(6) Recommend changes to air defense asset positioning and weapons resupply procedures.
(7) Successfully complete 80% of the above listed standards.

References. MCWP 3-25 series.

Prerequisites

(1) SYS-200, SYS-201, SYS-204, SYS-206.
(2) Academics: A-03, A-08, B-01 – B-05, B-08, B-16, C-01 –C-02, C-06, T-01 - T-03, T-11, T-21, T-25, T-58, T-59, T-63.

References. MCWP 3-25 series.

External Syllabus Support. None.

AAP-612 R E TACC L

Goal. Conduct Air Support planning.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist developing the MAGTF air battle plan.
(2) Review and make recommendations for modification of airspace/fire support coordination measures.
(3) Assist in TMD Attack Operations planning.
(4) Assist in planning emissions control measures.
(5) Assist in planning for CASEVAC operations.
(6) Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB).
(7) Successfully complete 80% of the above listed standards.

Prerequisites. Academics: A-01 - A-09, A-12 - A-14, B-06, B-17 - B-18, C-01 - C-05, T-05 - T-07, T-13 - T-15, T-22, T-23, T-30, T-34, T-37, T-54 - T-56, T-58 – T-60.

References. MCWP 3-25 series, MCWP 3-23.1, local SOPs.

External Syllabus Support. None.

QUAL-681 R E TACC L/S

Goal. Qualify the TACCO as an AAP.

Requirements. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in AAP-610, 611, or 612.
(2) Assist in the final review of the ATO before release/ forwarding.
(3) Successfully complete 80% of the above listed standards.

Prerequisites

(1) Completion of the Combat Ready stage of training.
(2) AAP-610, AAP-611, and AAP-612.

References. MCWP 3-23.1, MCWP 3-25 series, local SOPs, FMFRP 5-61.

External Syllabus Support. External C3 agencies.

3. Current Operations Officer (COPSO) Training

a. Purpose. To refine the skills required for COPSO qualification and to provide a means to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for COPSO Qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the COS to ensure action is taken to optimize the employment of aviation resources.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized TACC crew will be required for the higher-level evaluated events.

d. Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

COPS-620	R	TACC	L/S

Goal. Perform as a COPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the accomplishment/supervision of the following:

(1) Supervise preparation and set up of Current Operations
(2) Supervise the execution of the current ATO by:
  (a) Evaluating the capability of available assets to fulfill ATO tasking and develop a COA when there is a shortfall.
  (b) Keeping the ACE commander informed of unanticipated developments or problems that may impact planned operations.
  (c) Making adjustments to the published ATO when required by the current situation.
(3) Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, ACMs,

communications, ROE, aircraft capabilities/limitations, and munitions capabilities.
(4) Effect coordination with adjacent and senior air/ground agencies.
(5) Provide the FOPSO with a summary of significant problems encountered in executing the current ATO to improve the quality and effectiveness of future ATO tasking.
(6) Ensure backup procedures are prepared and can be rapidly implemented if automated support systems fail.
(7) Prepare current operations reports for the commander's situation report, his daily briefings, and as the ACE commander directs.
(8) Successfully complete 80% of the above listed standards.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.
(2) MAGTF Staff Training Program.
(3) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. External C3 agencies.

QUAL-682 R E TACC L/S

Goal. Qualify the TACCO as a COPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in COPS-620.
(2) Successfully complete 80% of the above listed standards.

Prerequisite. COPS-620.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. External C3 agencies.

4. Future Operations Officer (FOPSO) Training

a. Purpose. To refine the skills required for FOPSO qualification and to provide a means to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for FOPSO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the TACC FOS.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized Future Operations Section is required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

FOPS-630	R	TACC	L

Goal. Supervise the conduct of a FOS.

Requirement. During an exercise.

Performance Standards. Supervise the FOS of the TACC in the following:

(1) Draft preliminary targeting guidance to present to the ACE targeting board when the ACE is employed as a maneuver unit.
(2) Supervise preparation and set up of Future Operations.
(3) Issue approved planning guidance and direct and monitor development of the ATO based on that guidance.
(4) Develop the Marine component master air attack plan.
(5) Prepare the air allocation request (ALLOREQ)/air support request (AIRSUPREQ) messages, as required.
(6) Prepare the sortie allotment (SORTIEALLOT) message (if JFACC).
(7) Develop the ACE apportionment recommendation.

(8) Review the results of previous air operations and ensure applicable tactics or procedures are developed as the dynamic combat situation requires (combat assessment).
(9) Consult with the COPSO to determine significant problems in managing the current ATO to improve the quality and effectiveness of future ATO tasking.
(10) Prepare future operations reports for the commander's situation report, daily briefings, and as directed by the ACE commander.
(11) Ensure backup procedures are prepared and can be rapidly implemented if automated planning systems fail.
(12) Attend briefings to the ACE commander concerning upcoming operations about to be put into an ATO.
(13) Keep the FOS informed of the JFC/Marine component/ACE commander's guidance, intent, and objectives.
(14) Receive (transition) the developed ACE support plan and forward to the Orders Development Section as direction to stand up an OPT to prepare a detailed ACE OPORD/FRAGO.
(15) Ensure all FOPS activities are in compliance with JFC/Marine component battle rhythm.
(16) Successfully complete 80% of the above listed standards.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, and Joint Air Tasking Order Process Course. The aforementioned courses may be waived based upon performance during a sustained operation.
(2) MAGTF Staff Training Program.
(3) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. None.

QUAL-683 R E TACC L/S

Goal. Qualify the TACCO as a FOPSO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in FOPS-630.
(2) Successfully complete 80% of above listed standards.

Prerequisite. FOPS-630.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

External Syllabus Support. None.

5. Future Plans Officer (FPNO) Training

a. Purpose. To refine the skills required for FPNO qualification and to provide a means for the FPNO to remain current.

b. General

(1) Administrative Notes

(a) Perform all functions for FPNO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the Marine component aviation battle planning within the Future Plans section.

(2) Prerequisites. Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, Joint Air Tasking Order Process Course, and School of Advanced Warfighting (or other Service equivalent). The aforementioned courses may be waived based upon performance during a sustained operation.

(3) Refresher Training. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 24 months or longer. Upon return to an appropriate billet, the TACCO will complete "R" coded events in the 600 level syllabus.

c. Crew Requirements. A core competent, task-organized Future Plans section is required.

d. Academic Training. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (2 Events)

FPNO-640	R	TACC	L

Goal. Supervise the conduct of future planning.

Requirement. Perform as an FPNO.

Performance Standards. Supervise a Future Plans Section of the TACC in the following:

(1) Maintain close and continuous liaison with Marine component Future Plans.
(2) Conduct deliberate planning for Marine component OPLANs and follow-on MAGTF missions associated with current operations.

(3) Develop aviation COAs for each follow-on MAGTF mission under development.
(4) Develop aviation estimates of supportability for each follow-on MAGTF mission under development.
(5) Develop and refine OPLANs/OPORDs associated with each follow-on MAGTF mission.
(6) Provide detailed and fully integrated deployment, employment, mobilization, and sustainment plans for follow-on MAGTF mission.
(7) Prepare necessary briefs for COA and/or supportability decision briefs.
(8) Assist Future Operations, as required, after the ACE Support Plan is transitioned to the operational planning team (OPT) for OPORD/FRAGO detailed preparation.
(9) Successfully complete 80% of the above listed standards.

Prerequisites

(1) Combat Qualified in primary MOS and has completed the following courses: MAWTS-1 SWO Course, Joint Aerospace Operations Senior Staff Course, Joint Air Tasking Order Process Course, and School of Advanced Warfighting (or other Service equivalent). The aforementioned courses may be waived based upon performance during a sustained operation.
(2) Academics: B-1 – B-6, B-14, B-18, B-20, B-21, B-23, C-01 – C-06, T-07 – T-10, T-13 – T-18, T-22 – T-26, T-29 – T-30, T-32, T-33, T-36 – T-38, T-40 – T-44, T-50, T-54 – T-56, T-58, T-60 – T-66.
(3) MAGTF Staff Training Program.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

External Syllabus Support. None.

QUAL-684 R E TACC L/S

Goal. Qualify the TACCO as a FPNO.

Requirement. During an exercise.

Performance Standards. Demonstrate proficiency in the following:

(1) All requirements identified in FPNO-640.
(2) Successfully complete 80% of above listed standards.

Prerequisites. FPNO-640.

References. MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer’s Guide.

External Syllabus Support. None.

6. Special Skills Designations

a. Purpose. To designate the TACCO as an ADC, AAP, COPSO, FOPSO, and FPNO.

b. General

(1) Administrative Notes

(a) A TACCO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) The TACCO shall have a designation letter, with any waivers deferments or endorsements, filed and maintained in their MACCS Performance Record.

(2) Prerequisites

(a) Completion of the applicable Special Skills stage of training.

(b) Completion of applicable academics, as well as performance and qualification events.

c. Crew Requirements. None.

d. Academic Training. None.

e. Designation Events (5 Events)

DESG-690 TACC

Goal. Designate the TACCO as ADC.

Prerequisite. QUAL-680.

DESG-691 TACC

Goal. Designate the TACCO as AAP.

Prerequisite. QUAL-681.

DESG-692 TACC

Goal. Designate the TACCO as COPSO.

Prerequisite. QUAL-682.

DESG-693 TACC

Goal. Designate the TACCO as FOPSO.

Prerequisite. QUAL-683.

DESG-694 TACC

Goal. Designate the TACCO as FPNO.

Prerequisite. QUAL-684.

340. SPECIAL TRAINING REQUIREMENTS. None.

350. EXPENDABLE ORDNANCE REQUIREMENTS. None.

360. PROFICIENCY INTERVALS. Tables 3-14, 3-15, 3-16, and 3-17 contain the proficiency intervals for the Combat Readiness, Combat Qualification, Full-Combat Qualification and Special Skills training levels.

Table 3-14.--TACCO Proficiency Interval for the Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	0.5			X		L
	201	24	0.2			X		L
	202	24	0.2			X		L/S
	203	24	0.2			X		L/S
	204	24	0.5			X		L/S
	205	24	0.2					L
	206	24	0.2					L
CBC	210	24	0.5			X		L
	211	24	0.5			X		S/L
	212	24	0.5			X		L/S
DAOM	220	24	0.5			X		L
	221	24	0.5			X		S/L
	222	24	0.5			X		L/S
ABT	230	24	0.5			X		L
	231	24	0.5			X		S/L
	232	24	0.5			X		L/S

Table 3-14.--TACCO Proficiency Interval for the
Combat Ready Training Level--Continued.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
PRC	240	24	0.5			X		L
	241	24	0.5			X		S/L
ORDP	250	24	0.5			X		L
ATOMP	260	24	0.5			X		L
	261	24	0.5			X		L/S
QUAL	280	36.00	1			X	X	L
	281	36.00	1			X	X	L/S
	282	36.00	1			X	X	L/S
	283	36.00	1			X	X	L/S
	284	36.00	1			X	X	L/S
	285	36.00	1			X	X	L/S
DESG	290	-	0					
	291	-	0					
	292	-	0					
	293	-	0					
	294	-	0					
	295	-	0					

Table 3-15.--TACCO Proficiency Interval for the
Combat Qualification Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
CBA	300	24	1			X		L/S
	301	24	1			X		L/S
DBA	310	24	1			X		L/S
	311	24	1			X		L/S
ATOPRO	320	24	1			X		L
	321	24	1			X		L/S
ORDO	330	24	1			X		L/S
	331	24	1			X		L/S
ATOPLO	360	24	1			X		L
	361	24	1			X		L/S
QUAL	380	36	2			X	X	L/S
	381	36	2			X	X	L
	382	36	2			X	X	L/S
	383	36	2			X	X	L/S
	384	36	2			X	X	L/S
DESG	390	-	0					
	391	-	0					
	392	-	0					
	393	-	0					
	394	-	0					

Table 3-16.--TACCO Proficiency Interval for the Full-Combat Readiness Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SWO	400	24	0.5					S/L
	401	24	1			X		L/S
ATODO	410	24	0.5			X		L
	411	24	1			X		L/S
QUAL	480	36	1			X	X	L/S
	481	36	1			X	X	L/S
DESG	490	-	0.00					
	491	-	0.00					

Table 3-17.--TACCO Proficiency Interval for the Special Skills Training Level.

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ADC	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S
AAP	610	24	0			X	X	L
	611	24	0			X	X	L
	612	24	0			X	X	L
COPS	620	24	0			X		L/S
FOPS	630	24	0			X		L
FPNO	640	24	0			X		L
QUAL	680	36	0			X	X	L
	681	36	0			X	X	L/S
	682	36	0			X	X	L/S
	683	36	0			X	X	L/S
	684	36	0			X	X	L/S
DESG	690	-	0					
	691	-	0					
	692	-	0					
	693	-	0					
	694	-	0					

370. EVENT UPDATE CHAINING. Table 3-18 contains the event update chaining for the TACCO.

Table 3-18.--TACCO Combat Ready and Combat Qualified Training Event Update Chaining.

EVENT	EVENTS UPDATED
200	
201	
202	
203	
204	
205	
206	
210	206, 205, 200
211	210, 206, 205, 200
212	211, 210, 206, 205, 200
220	206, 205, 200
221	220, 206, 205, 200
222	221, 220, 206, 205, 200
230	205, 200
231	230, 205, 200
232	231, 230, 205, 200
240	206, 205, 200
241	240, 206, 205, 200
250	205
260	205
261	260, 205
280	212, 211, 210, 206, 205, 200
281	222, 221, 220, 206, 205, 200
282	232, 231, 230, 205, 200
283	241, 240, 206, 205, 200
284	250, 205
285	261, 260, 205
290	
291	
292	
293	
294	
295	
300	205, 200
301	300, 205, 200
310	205, 200
311	310, 205, 200
320	205
321	320, 205
330	205
331	330, 205
360	

Table 3-18.--TACCO Combat Ready and Combat Qualified Training Event Update Chaining--Continued.

EVENT	EVENTS UPDATED
361	360
380	301, 300, 205, 200
381	311, 310, 205, 200
382	321, 320, 205
383	331, 330, 205
384	361, 360
390	
391	
392	
393	
394	
400	206, 205, 200
401	400, 206, 205, 200
410	
411	410
480	401, 400, 206, 205, 200
481	411, 410
490	
491	