

T&R MANUAL, TACC

CHAPTER 1

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

	<u>PARAGRAPH</u>	<u>PAGE</u>
INTRODUCTION . . . . .	100	1-3
CORE COMPETENCIES/SKILLS. . . . .	101	1-3
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS. . . . .	102	1-9
UNIT TRAINING POLICIES. . . . .	103	1-13
TACCO TRAINING PROGRESSION PHILOSOPHY . . . . .	104	1-14
TRAINING PROGRESSION MODEL FOR TACCO . . . . .	105	1-15
PROGRAMS OF INSTRUCTION (POI) FOR TACCO . . . . .	106	1-16
SPECIAL DESIGNATIONS . . . . .	107	1-16
GROUND/ACADEMIC TRAINING . . . . .	110	1-19
TRAINING REFERENCES . . . . .	111	1-23
LIVE/SIMULATOR EVENT TRAINING: TACCO. . . . .	120	1-24
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS . . . . .	130	1-25
COMPONENTS OF A T&R EVENT . . . . .	131	1-26
COMBAT CAPABLE TRAINING . . . . .	132	1-27
COMBAT READY TRAINING . . . . .	133	1-27
COMBAT QUALIFICATION TRAINING . . . . .	134	1-41
FULL-COMBAT QUALIFICATION TRAINING. . . . .	135	1-51
SPECIAL SKILLS QUALIFICATION TRAINING . . . . .	136	1-57
SPECIAL TRAINING REQUIREMENTS . . . . .	140	1-80
EXPENDABLE ORDNANCE REQUIREMENTS . . . . .	150	1-80
PROFICIENCY INTERVALS . . . . .	160	1-80
EVENT UPDATE CHAINING . . . . .	170	1-83

T&R MANUAL, TACC

FIGURE

	<u>PAGE</u>
1-1 TACCO Training Progression Model	1-15

TABLE

1-1 NOTIONAL CURRENT OPERATIONS SECTION. . . . .	1-5
1-2 NOTIONAL FUTURE OPERATIONS SECTION. . . . .	1-6
1-3 NOTIONAL FUTURE PLANS SECTION. . . . .	1-6
1-4 TACC CURRENT OPERATIONS SECTION BILLET SYLLABUS. . QUALIFICATION MATRIX	1-7
1-5 TACC FUTURE OPERATIONS SECTION BILLET SYLLABUS QUALIFICATION MATRIX. . . . .	1-8
1-6 TACC FUTURE PLANS SECTION BILLET SYLLABUS QUALIFICATION MATRIX. . . . .	1-9
1-7 COMBAT READINESS TRAINING . . . . .	1-9
1-8 COMBAT QUALIFICATION TRAINING LIST . . . . .	1-10
1-9 FULL COMBAT QUALIFICATION TRAINING LIST. . . . .	1-11
1-10 SPECIAL SKILLS QUALIFICATION TRAINING. . . . .	1-11
1-11 CORE SKILSS. . . . .	1-12
1-12 RECOMMENDED T&R LECTURES. . . . .	1-20
1-13 TACC ACADEMIC SYLLABUS. . . . .	1-21
1-14 TACCO PROFICIENCY INTERVAL FOR THE COMBAT READINESS TRAINING LEVEL. . . . .	1-80
1-15 TACCO PROFICIENCY INTERVAL FOR THE COMBAT QUALIFICATION TRAINING LEVEL.. . . .	1-81
1-16 TACCO PROFICIENCY INTERVAL FOR THE FULL COMBAT TRAINING LEVEL . . . . .	1-81
1-17 TACCO PROFICIENCY INTERVAL FOR THE SPECIAL SKILLS TRAINING LEVEL. . . . .	1-82
1-18 TACCO COMBAT READY AND COMBAT QUALIFIED TRAINING EVENT UPDATE CHAINING. . . . .	1-83
1-19 TACCO FULL COMBAT AND SPECIAL SKILLS TRAINING EVENT UPDATE CHAINING. . . . .	1-84

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 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 Systems Approach to Training 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 which support the Mission Essential Tasks (METL) 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 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 combat 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 that all crew positions are manned and supporting MOS's 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, those critical functions performed by that position 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 Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battl e Cell	COS Deep Battl e Cell	COS Air Defens e 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 Battl e Coord	Deep Air Ops Manager	Air Defens e Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Office	C2 Systems Watch Office	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 Office	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder/TBMCS Operator (2)		Logistics Watch Office	Data/Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Office	Wireman	
	IOS Operator			Recorder (2)	Plotter					Force Protection Watch Office	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Office		

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 that position will be degraded. The notional Future Operations Section 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 by that position 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
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T&R MANUAL, TACC

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 current and future operations sections.

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)
	UAV Tasker	Air Battle Tasker (ABT)
	Fixed Wing Recorder	Recorder (RCDR)

T&R MANUAL, TACC

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	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
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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

1. Combat Capable Training. This training is accomplished at the Marine Air Control Squadron (MASS), 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 readiness training events and associated page numbers.

Table 1-7. Combat Readiness Training List

EVENT	GOAL	PAGE
SYS-200	Operate communications equipment	1-27
SYS-201	Configure National Systems Information	1-28
SYS-202	Conduct TACC operations in an NBC environment	1-28
SYS-203	Operate the IOW system	1-29
SYS-204	Operate TBMCS	1-29
SYS-205	AFATDS set up and operations	1-30
SYS-206	Operate MSCS	1-30
CBC-210	Conduct Close Battle Cell planning	1-31
CBC-211	Perform as a CBC	1-32
CBC-212	Perform as a CBC	1-33
ADC-220	Conduct Air Defense planning	1-35
ADC-221	Perform as an ADC	1-35
ADC-222	Perform as an ADC	1-37
ACO-230	Airspace/airspace management planning	1-38
ACO-231	Perform ACO functions	1-39
ACO-232	Perform ACO functions	1-40
QUAL-280	Qualify the TACCO as a CBC	1-34
QUAL-281	Qualify the TACCO as an ADC	1-37
QUAL-282	Qualify the TACCO as an ACO	1-40
DESG-290	Designate the TACCO as a CBC	1-41
DESG-291	Designate the TACCO as an ADC	1-41
DESG-292	Designate the TACCO as an ACO	1-41

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

Table 1-8.--Combat Qualification Training List

EVENT	GOAL	PAGE
CBA-300	Perform targeting analysis as a CBA	1-42

T&R MANUAL, TACC

EVENT	GOAL	PAGE
CBA-301	Monitor DASC/Close Battle Cell activity	1-43
AAP-310	Conduct airspace/control measures planning	1-45
AAP-311	Conduct Air Defense planning	1-45
AAP-312	Conduct Air Support planning	1-46
ICO-320	Develop planning documents	1-47
ICO-321	Perform as an ICO	1-48
ICO-322	Perform as an ICO	1-49
QUAL-380	Qualify the TACCO as a CBA	1-44
QUAL-381	Qualify the TACCO as an AAP	1-46
QUAL-382	Qualify the TACCO as an ICO	1-49
DESG-390	Designation as a CBA	1-50
DESG-391	Designation as an AAP	1-50
DESG-392	Designation as an ICO	1-51

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	1-52
SAC-401	Perform as a SAC	1-52
SAC-402	Perform as a SAC	1-53
PRC-410	Conduct Personnel Recovery Planning	1-64
PRC-411	Perform as a PRC	1-65
QUAL-480	Qualify the TACCO as a SAC	1-53
QUAL-481	Qualify the TACCO as a PRC	1-56
DESG-490	Designate the TACCO as a SAC	1-57
DESG-491	Designation the TACCO as a PRC	1-57

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	1-58
DAOM-601	Perform as a DAOM	1-59
DAOM-602	Perform as a DAOM	1-60
AC2P-603	Perform as an AC2P	1-62
AC2P-604	Perform as an AC2P	1-62

T&R MANUAL, TACC

DBA-610	Perform Targeting Analysis as a DBA	1-64
DBA-611	Monitor Deep Battle Cell Activity	1-64
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	1-77
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	1-76
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	1-79
DESG-693	Designation as an AC2 Planner	1-79
DESG-694	Designate the TACCO as a JICO	1-79
DESG-695	Designate the TACCO as a SWO	1-79
DESG-696	Designate the TACCO as a COPSO	1-79
DESG-697	Designate the TACCO as a FOPSO	1-80
DESG-698	Designate the TACCO as a FPNO	1-80

7. Operator Core Skills. Core skills are depicted in the following matrix (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

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

T&R MANUAL, TACC

METL	CORE SKILLS						CORE PLUS	
	SYS	CBC	ADC	ACO	CBA	AAP	ICO	SAC
<b>D</b>	200 201	210	220	230	300 301	310 311 312	320	400
<b>E</b>	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
<b>F</b>	200 201 203 204 206		220 221 222			310 311		400 401 402
<b>G</b>	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
<b>H</b>	200 204	210	220	230	300	310	320	400
<b>I</b>	200 204 206	210	220	230 231 232		310	320	400 401 402
<b>J</b>	201 204 205	210	220	230 231 232	300 301	311 312	320	400 401 402
<b>K</b>	201 202 203 204 205	211 212	221 222	231 232	300 301	311 312	320	400 401 402
<b>L</b>	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
<b>M</b>	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
<b>N</b>	200 201 202 203 204 205 206	210 211 212	220 221 222	230 231 232	300 301	310 311 312		400 401 402
<b>O</b>	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 that 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 that 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 that 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. 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 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. Tactical Digital Information Link 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 upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

105. TACCO TRAINING PROGRESSION MODEL

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

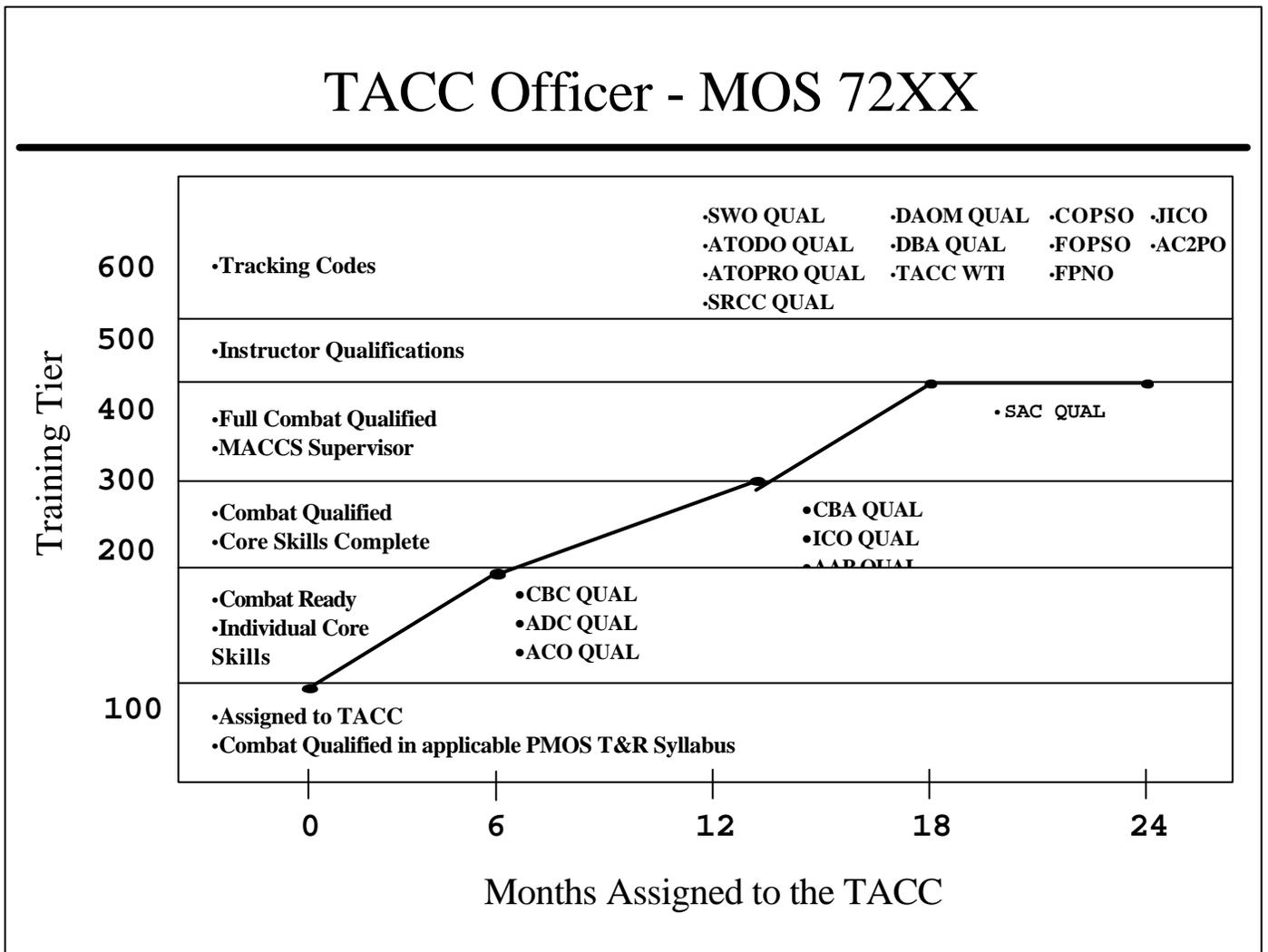


Figure 1.1.--TACCO Training Progression Model.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of individual's initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned their primary MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a Commanding Officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. 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 training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification 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.

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

107. MISSION QUALIFICATIONS/DESIGNATIONS

1. Tactical Air Command Center (TACC)

a. Current Operations Section

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

(2) Senior Watch Officer (SWO) Qualification. A Marine officer is SWO qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a SWO by the MAW commander and a letter noting the designation 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 having completed the required training events of the appropriate T&R syllabus. The MACCS 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 designated representative. A letter noting the officer's qualification 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 having completed the 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 designated representative. A letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the required training events of the appropriate T&R syllabus. The MACCS officer shall be certified as an ACO by a designated SAC and designated ACO qualified by the MAW commander's designated representative and a letter noting the qualification 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 having completed the required training events of

the appropriate T&R syllabus. The officer shall be certified as a ABA by a designated SAC and designated ABA qualified by the MAW commander's designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a FOPSO by the MAW commander and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification 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 having completed the 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 and a letter noting the qualification 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 having completed the 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 designated representative. A letter noting the qualification shall be entered into the officer's MACCS Performance Record.

(8) ATO Mission Planner (ATOMP) Qualification. A Marine officer (MOS 72XX) is AMP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an AMP by the MAW G3 and designated AMP qualified by the MAW commander's designated representative. A letter noting the qualification 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 having completed the 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 designated representative. A letter noting the qualification 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 having completed the 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 designated representative and a letter noting the qualification shall be entered into the officer's MACCS Performance Record.

d. Joint Interface Control Officer (JICO)/Regional Interface Control Officer (RICO) Cell

(1) JICO Qualification. A Marine officer (MOS 72XX) is JICO qualified after having completed the 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 designated representative and a letter noting the qualification shall be entered into the officer's MACCS Performance Record.

110. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 1-12

T&R MANUAL, TACC

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
<b>200 Level: Combat Ready Training</b>		
A-01*	MAGTF Organization	MCCES
A-02*	MACCS Organization	MCCES
A-03*	The Six Functions of Marine Aviation	MAWTS-1
A-04*	Control of Aircraft & Missiles	MAWTS-1
A-05*	Offensive Air Support	MAWTS-1
A-06*	Assault Support	MAWTS-1
A-07*	Electronic Warfare	MAWTS-1
A-08*	Aerial Reconnaissance	MAWTS-1
A-09*	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
<b>300 Level: Combat Qualified Training</b>		
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*	MACCS Agencies	MAWTS-1
B-08*	TACC	MAWTS-1
B-09*	TAOC	MAWTS-1
B-10*	DASC	MAWTS-1
B-11*	ATC Detachment	MAWTS-1
B-12*	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

Lecture Code	Lecture Title	Sponsor
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 <sup>2</sup> )	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 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&amp;R MANUAL, TACC

CODE	CLASS TITLE	SOURCE	72XX	75XX	02XX
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 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 MANAGEMENT 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.

T&R MANUAL, TACC

<u>COURSE</u>	<u>ACTIVITY</u>
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
Joint Aerospace Command and Control Course (JAC2C)	C2WS
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:

**TITLE**

ACP-125 Allied Communication Publication  
 CJCSM 6120.01A Joint Multi-TADIL Operational Procedures  
 CCS-TRTBM-A017 TBMC 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 3-09.3JTTP for Close Air Support  
 Joint Pub 3-01.4JTTP for Joint SEAD  
 Joint Pub 3-01.5Doctrine 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

111 T&R MANUAL, VOLUME 5

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%
COMBAT READY 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%
COMBAT QUALIFICATION 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%
FULL COMBAT QUALIFICATION 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	2	0.00%
FUTURE PLANS OFFICER TRAINING	2	0.00%
SPECIAL SKILLS TRAINING TOTALS:	24	0.00%
<b>TACCO MOS 72XX T&amp;R SYLLABUS TOTALS:</b>	<b>61</b>	<b>100.00%</b>

130. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. General. The majority of the Tactical Air Command Center Officer 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 Tactical Air Command Center Officer.

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". 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, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

131. COMPONENTS OF A T&R EVENT

1. General. 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 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 which 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.

Performance Steps. *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the goal to proficiency are listed in the order of performance. Minor steps are not listed.

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 which 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 which 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 Program of Instruction (Basic POI is understood).
- 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

1. Combat Capable Stage. All Combat Capable training (100 series) will be accomplished by completing the Combat Qualification Syllabus of each Marine's primary MOS at the MACS/MASS/LAAD.

133. COMBAT READY TRAINING

1. System Training

a. Purpose. To develop the skills required to maintain proficiency in operating Tactical Air Command Center (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 and 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.

Reference. TACC TM's.

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

External Syllabus Support. External agencies.

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SYS-201      4.0              T, R              TACC              L

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

Requirement. Configure the IBR display to depict desired NSD.

Performance Standards. Demonstrate proficiency in the following areas:

- (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. Integrated Broadcast Receiver and Intelligence Broadcast Services.

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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.



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. Demonstrate proficiency in AFATDS setup and operation.

Requirement. Demonstrate the ability to 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) An understanding of 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. Demonstrate proficiency in Multiple Source Correlation System (MSCS) operation.

Requirement. Demonstrate the ability to 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 the TACCO's 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 Current Operations Section.

(c) 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 the "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. An academic training event, once completed, 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 areas:

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



T&R MANUAL, TACC

- (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 that information is kept current and that 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 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 the 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) Academics: Completion of MACCS Academic COI(200 level), 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. Perform as a CBC during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:





Goal. Perform as an ADC.

Requirement. Perform as an ADC during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (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 the 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 that information is kept current and that the SAC is updated concerning the air defense situation.
- (10) Coordinate:
  - (a) The 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) The flow of air defense information/reports.
- (11) Ensure that 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.









T&R MANUAL, TACC

(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 and a recommendation for designation will be staffed to the MAW commander's designated representative.

(c) The TACCO shall have a designation letter awarded, with any waivers deferments or endorsements, and will be filed in the individual's 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 (3 Events)

DESG-290 TACC

Goal. Designate the TACCO as a CBC.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-280.

DESG-291 TACC

Goal. Designate the TACCO as an ADC.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-281.

DESG-292 TACC

Goal. Designate the TACCO as an ACO.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-282.

134. COMBAT QUALIFICATION TRAINING

1. Close Battle Analyst (CBA) Training

a. Purpose. To refine the TACCO'S skills required for the 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. 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. An academic training event, once completed, can be credited for follow on training events.

e. Live and Simulator Event Training (3 Events)

<u>CBA-300</u>	<u>R</u>	<u>TACC</u>	<u>L/S</u>
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Goal. Perform targeting analysis as a CBA.

Requirement. Perform as a CBA during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (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 courses of action.
- (4) Monitor MAGTF targeting guidance updates.



Performance Standards. Demonstrate proficiency in the following areas:

(1) All standards 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, and 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 the TACCO's skills required for designation as an AAP and 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, 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) 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 the "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-310

R E

TACC

L

Goal. Conduct airspace/control measures planning.

Requirement. Perform as an AAP during an exercise.

Performance Standards. To demonstrate proficiency in the following areas:

- (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 procedures within the AO.
- (4) Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations.
- (5) Delegating 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 airspace control measures within the AO, as required.
- (8) Enter required C2 information into the applicable TBMCS database(s).
- (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. Perform as an AAP during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (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.



Prerequisites

- (1) Completion of the Combat Ready stage 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 the TACCO's skills required for designation as an Interface Control Officer and 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 the "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 (4 Events)

ICO-320	R	TACC	L
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Goal. Develop planning documents.

Requirement. Conduct multi-TADIL network planning.

Performance Standards. Demonstrate proficiency in the following areas:

- (1) Develop an OPTASKLINK.
- (2) Assist in the development of the surveillance plan/TACOPDAT within the AO.





T&R MANUAL, TACC

(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 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 (3 Events)

DESG-390 TACC

Goal. Designate the TACCO as a CBA.

Requirement. None.

Performance Standards. Completion of Academic COI, performance, and qualification events.

Reference. None.

Prerequisite. QUAL-380.

DESG-391 TACC

Goal. Designate the TACCO as an AAP.

Requirement. None.

Performance Standards. Completion of Academic COI, performance, and qualification events.

Reference. None.

Prerequisite. QUAL-381.

DESG-392 TACC

Goal. Designate the TACCO as an ICO.

Requirement. None.









T&R MANUAL, TACC

- (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. Perform as the PRC during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (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 that 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.



(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 a SAC.

Requirement. None.

Performance Standards. None.

Reference. None.

Prerequisite. QUAL-480.

DESG-491 TACC

Goal. Designate the TACCO as a PRC.

Requirement. None.

Performance Standards. None.

Reference. None.

Prerequisite. QUAL-481.

136. SPECIAL SKILL QUALIFICATION TRAINING

1. 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 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 Current Operations Section.



Goal. Perform as a DAOM.

Requirement. Perform as the DAOM during an exercise.

Performance Standards. Perform duties as DAOM in the following areas:

- (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 courses of action to 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 that information is kept current and that 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 the equipment status and operational posture of C3 agencies relative to the deep battle, as required.



Requirement. Perform as the DAOM during an exercise.

Performance Standards. Demonstrate proficiency in:

- (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 the TACCO'S skills required for the 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 operations orders/frag orders 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) Prerequisite(s). Completion of the Combat Ready stage of training, QUAL-381 and MOS 7202. WTI course is highly recommended.

c. Crew Requirements. Acore 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)

AC2P-603	R	TACC	L/S
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Goal. Perform as an AC2P.

Requirement. Plan for C3 integration within Future Plans.









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 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)

ATOPL-620                      R                      TACC                      L

Goal. Direct ATO planning.

Requirement. Perform as the ATOPL during an exercise.

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

- (1) Receive and review the Marine component master air attack plan.
- (2) Prepare the Marine component master air attack plan to include:
  - (a) Sequencing and deconflicting apportioned air assets against the MAGTF/JFC prioritized target list.
  - (b) Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness.
  - (c) Deconflicting 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.









T&R MANUAL, TACC

- (7) Perform the functions of the Current Operations Officer, 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, and 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.

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SWO-651	R	TACC	L/S
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Goal. Perform as a SWO.

Requirement. Perform as a SWO during an exercise.

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

- (1) All standards 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.

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QUAL-685	R E	TACC	L/S
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Goal. Qualify the TACCO as a SWO.

Requirement. Perform as a SWO during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (1) All requirements identified in SWO-650.



T&R MANUAL, TACC

- (1) Supervise the 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 course of action 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 bed down, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities.
- (4) Effect coordination with adjacent and senior air/ground agencies.
- (5) Provide the Future Operations Officer with a summary of significant problems encountered in executing the current ATO to improve the quality and effectiveness of future ATO tasking.
- (6) Ensure that 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) 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. External C3 agencies.

Goal. Qualify the TACCO as a COPSO.

Requirement. Perform as a COPSO during an exercise.

Performance Standards. Demonstrate proficiency in the following areas:

- (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 the 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 Future Operations Section.

(2) Prerequisite(s). 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 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)

Goal. Supervise the conduct of the FOPSO.

Requirement. Perform as a FOPSO during an exercise.

Performance Standards. Supervise the Future Operations Section 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 Ops.
- (3) Issue the approved planning guidance and direct and monitor development of the ATO based on that guidance.
- (4) Develop the Marine component master air attack plan (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 the results of previous air operations and ensure that applicable tactics or procedures are developed as the dynamic combat situation requires (combat assessment).
- (9) Consult with the Current Ops Officer to determine significant problems in managing the current ATO to improve the quality and effectiveness of future ATO tasking.
- (10) Prepare reports from future operations for the commander's situation report, commander's daily briefing, and as directed by the ACE Commander.
- (11) Ensure that 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 Future Ops informed of the JFC/Marine component/ACE commander's guidance, intent, and objectives.
- (14) Receive (transition) the developed ACE support plan and provide to the Orders Development Section for 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.



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 the "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-662                      R                      TACC                      L/S

Goal. Supervise the conduct of future planning.

Requirement. Perform as an FPNO during an exercise.

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

- (1) Maintaining close and continuous liaison with Marine component Future Plans.
- (2) Conducting deliberate planning for Marine component operation plans (OPLANS) and follow-on MAGTF missions associated with the current operation.
- (3) Developing aviation courses of action (COAs) for each follow-on MAGTF mission under development.
- (4) Developing aviation estimates of supportability for each follow-on MAGTF mission under development.
- (5) Developing and refining OPLANS/OPORDs associated with each follow-on MAGTF mission.
- (6) Providing detailed and fully integrated deployment, employment, mobilization, and sustainment plans for follow-on MAGTF mission.
- (7) Preparing necessary briefs for COA and/or supportability decision briefs.
- (8) Assisting 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, and FMFM 5-4.

Prerequisites



(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 a DAOM.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-680.

DESG-691 TACC

Goal. Designate the TACCO as a DBA.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-681.

DESG-692 TACC

Goal. Designate the TACCO as an ATOPL.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-682.

DESG-693 TACC

Goal. Designate the TACCO as an AC2P.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-683.

DESG-694 TACC

Goal. Designate the TACCO as a JICO.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-684.

DESG-695 TACC

Goal. Designate the TACCO as a SWO.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-685

DESG-696 TACC

Goal. Designate the TACCO as a COPSO.

Requirement. None.

Performance Standards. None.

Prerequisite. QUAL-686.

DESG-697 TACC

Goal. Designate the TACCO as a FOPSO.

Requirement. None.

Performance Standards. None.

Prerequisites. QUAL-687.

DESG-698 TACC

Goal. Designate the TACCO as a FPNO.

Requirement. None.

Performance Standards. None.

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	REQUIREMENT & REMARKS
<b>SYS</b>	200	24	0.4			X		L
	201	24	0.4	<b>X</b>		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
<b>CBC</b>	210	24	1			X		L
	211	24	1			X		S/L
	212	24	1			X		L/S
<b>ADC</b>	220	24	1			X		L
	221	24	1			X		S/L
	222	24	1			X		L/S
<b>ACO</b>	230	24	1			X		L
	231	24	1			X		S/L
	232	24	1			X		L/S
<b>QUAL</b>	280	36	1			X	X	L
	281	36	1			X	X	L
	282	36	1			X	X	L
<b>DESG</b>	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
<b>CBA</b>	300	24	1			X		L/S
	301	24	1			X		L/S
<b>AAP</b>	310	24	1			X	X	L

EVENT	CODE	PROFICIENCY INTERVAL (months)	CRP	T	C	R	E	CONDITIONS & REMARKS
	311	24	1			X	X	L
	312	24	2			X	X	L
<b>ICO</b>	320	12	1.5			X		L
	321	12	1.5			X		S/L
	322	12	2			X		L/S
<b>QUAL</b>	380	36	3			X	X	L
	381	36	3			X	X	L/S
	382	36	3			X	X	L
<b>DESG</b>	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
<b>SAC</b>	400	24	0.5			X		L
	401	24	0.5			X		S/L
	402	24	1			X		L/S
<b>PRC</b>	410	24	0.5			X		L
	411	24	0.5			X	X	S/L
<b>QUAL</b>	480	36	1			X	X	L
	481	36	1			X	X	L/S
<b>DESG</b>	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
<b>DAOM</b>	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S
<b>AC2P</b>	603	24	0			X		L/S
	604	24	0			X	X	L/S

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

T&R MANUAL, TACC

EVENTS	EVENTS UPDATED
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
280	212
281	222
282	232
290	
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
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<b>EVENTS</b>	<b>EVENTS UPDATED</b>
400	
401	400
402	401
410	
411	410
480	280 , 282 , 282 , 380 , 381 , 402
481	411
490	
491	