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Subj: MARINE AIR TRAFFIC CONTROL (MATC) TACTICAL USER TRAINING AND READINESS  
(T&R) MANUAL

Ref: (a) NAVMC 3500.14C

1. Purpose. Per reference (a), publish standards and regulations regarding the training of MATC Tactical User crews.

2. Scope. Highlights of major training and readiness planning considerations are as follows:

a. The MATC T&R Manual has been divided into three chapters and formatted per the reference.

b. Additional events to achieve designation for the Watch Commander have been added.

c. The Aviation Career Progression Model (ACPM) has been added.

d. Instructor designations have been added per the construct outlined in the reference and in accordance with the Marine Aviation Weapons and Tactics Squadron One (MAWTS-1) C3 course catalog.

3. Information. Recommended changes to this Manual are invited and may be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General (CG), Training and Education Command (TECOM), 1019 Elliot Road, Quantico, Virginia 22134, Attn: Aviation Training Division (ATD) using standard Naval correspondence or the Automated Message Handling System (AMHS) Plain Language Address: CG TECOM ATD.

4. Command. This Manual is applicable to the Marine Corps Total Force.

5. Certification. This Manual is effective the date signed.

  
R. C. FOX  
By direction

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CHAPTER 1

MATC TRAINING AND READINESS UNIT REQUIREMENTS

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CHAPTER 1

MATC

1.0 TRAINING AND READINESS REQUIREMENTS. The Marine Aviation Training and Readiness (T&R) Program provides the Marine Air-Ground Task Force (MAGTF) commander with an Aviation Combat Element (ACE) capable of executing the six functions of Marine Aviation. The T&R Program is the fundamental tool used by commanders to construct, attain, and maintain effective training programs. The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned METs while conserving resources. These standards describe and define unit capabilities and requirements necessary to maintain proficiency in mission skills and combat leadership. Training events are based on specific requirements and performance standards to ensure a common base of training and depth of combat capability.

1.1 MISSION. The mission of the Marine Air Traffic Control Detachment (MATCD) is to provide continuous all-weather, RADAR/Non-RADAR approach, departure, enroute, and tower air traffic control services to friendly aircraft.

1.2 TABLE OF ORGANIZATION (T/O). Refer to Table of Organization M00882 managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength. Information below depicts the MATCD T/O information as of the date of this NAVMC.

T/O FOR DETACHMENT		
AIR TRAFFIC CONTROLLERS ONLY		
	UNIT COMPOSITION	TOTALS
HQ		
	OFFICER	3
	SNCO	1
ATC OPERATIONS		
	TOWER SNCO	2
	TOWER ENLISTED	11
	RADAR SNCO	3
	RADAR ENLISTED	16
MMT #1		
	OFFICER	1
	SNCO	1
	ENLISTED	2
MMT #2		
	SNCO	1
	ENLISTED	3
MMT #3		

	SNCO	1
	ENLISTED	3
TOTALS		
	OFFICER	4
	ENLISTED	44

1.3 SIX FUNCTIONS OF MARINE AVIATION

SIX FUNCTIONS OF MARINE AVIATION		
FUNCTION	ABBREVIATION	DESCRIPTION
Offensive Air Support	OAS	OAS involves air operations that are conducted against enemy installations, facilities, and personnel in order to directly assist in the attainment of MAGTF objectives by destroying enemy resources or isolating enemy military forces. Its primary support of the warfighting functions is to provide fires and force protection through CAS and DAS.
Assault Support	ASPT	ASPT contributes to the warfighting functions of maneuver and logistics. Maneuver warfare demands rapid, flexible maneuverability to achieve a decision. Assault support uses aircraft to provide tactical mobility and logistic support to the MAGTF for the movement of high priority personnel and cargo within the immediate area of operations (or the evacuation of personnel and cargo).
Anti-Air Warfare	AAW	AAW is the actions used to destroy or reduce the enemy air and missile threat to an acceptable level. The primary purpose of AAW is to gain and maintain whatever degree of air superiority is required; this permits the conduct of operations without prohibitive interference by opposing air and missile forces. AAW's other purpose is force protection.
Electronic Warfare	EW	EW is any military action involving the use of electromagnetic and directed energy to control the electromagnetic spectrum or to attack the enemy. EW supports the warfighting functions of fires, command and control, and intelligence through the three major subdivisions: electronic attack, electronic protection, and electronic warfare support.
Control of Aircraft & Missiles	CoA&M	The control of aircraft and missiles supports the warfighting function of Command and Control. The ACE commander maintains centralized command, while control is decentralized and executed through the Marine Air Command and Control System (MACCS). CoA&M integrates the other five functions of Marine Aviation by providing the commander with the ability to exercise Command and Control authority over Marine Aviation assets.
Aerial Reconnaissance	AerRec	AerRec employs visual observation and/or sensors in aerial vehicles to acquire intelligence information. It supports the intelligence warfighting function and is employed tactically, operationally, and strategically. The three types of air reconnaissance are visual, multi-sensor imagery, and electronic.

1.4 ABBREVIATIONS. Shading indicates Core Plus Skills.

MATC	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
ORNT	ORIENTATION
EQPT	EQUIPMENT
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
MMTL	MMT LEADER
MMTM	MMT MEMBER
FWO	FACILITY WATCH OFFICER

MISSION SKILLS (3000 PHASE)	
ATC	AIR TRAFFIC CONTROL SERVICES
TWR	TOWER SERVICES
RDR	RADAR SERVICES
MMT	MATC MOBILE TEAM
CORE PLUS SKILLS (4000 PHASE)	
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
C2SYS	COMMAND AND CONTROL SYSTEMS
DLC	DATA LINK COORDINATOR

1.5 MISSION ESSENTIAL TASK LIST (METL). The unit METL consists of Mission Essential Tasks (METs). Shading indicates Core Plus METs.

MATC		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	MCT DESCRIPTION
5.3.5.4.1	ATC	PROVIDE AIR TRAFFIC CONTROL (ATC) SERVICES
5.3.5.4.1.1	TWR	PROVIDE ATC TOWER SERVICES
5.3.5.4.1.2	RDR	PROVIDE ATC RADAR SERVICES
5.3.5.4.1.3	MMT	PROVIDE MARINE ATC MOBILE TEAM (MMT) SERVICES

1.6 MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION  
Shading indicates Core Plus METs.

MATC							
MISSION ESSENTIAL TASK LIST (METL)							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
5.3.5.4.1	ATC					X	
5.3.5.4.1.1	TWR					X	
5.3.5.4.1.2	RDR					X	
5.3.5.4.1.3	MMT					X	

1.7 MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS. Output standards are based on 24-hour continuous contingency/combat operations for one Marine Air Control Squadron.

CORE MET OUTPUT STANDARDS					
MET	ABBREVIATION	OUTPUT STANDARDS	TOTAL CMMR CREWS		
			MACS 1/2	MACS 4	MACS 23/24
5.3.5.4.1	ATC	Y/N: Able to provide sustained RADAR and tower services (2) Main Air Bases or Air Facilities	4	4	2
		Y/N: Able to support MMT services at (6) remote air sites or points			
		Y/N: Able to provide sustained RADAR air surveillance data to the MAGTF or joint force via tactical data link			
		Y/N: Able to provide sustained integration with the MACCS, other military command and control (C2) and civilian entities to include the Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO)			
		Y/N: Able to provide sustained FAA certifiable navigational aids and develop terminal instrument procedures			
5.3.5.4.1.1	TWR	Y/N: Able to provide sustained ATC tower services for (2) main air bases or air facilities	4	4	3
		Y/N: Able to provide sustained FAA certifiable navigational aids and develop terminal instruments procedures			
		Y/N: Able to provide sustained integration with the MACCS, other military command and control (C2) and civilian entities to include the Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO)			
5.3.5.4.1.2	RDR	Y/N: Able to provide sustained ATC RADAR services for (2) main air bases or air facilities	4	4	3
		Y/N: Able to provide RADAR air surveillance data to the MAGTF/Joint force via tactical data link			
		Y/N: Able to provide sustained navigational assistance			
		Y/N: Able to provide sustained integration with the MACCS, other military command and control (C2) and civilian entities to include the Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO)			
5.3.5.4.1.3	MMT	Y/N: Able to rapidly establish air traffic control and command, control and communications node for (2) air sites or points per assigned detachment	4	6	2
		Y/N: Able to provide assault zone survey and assessment for close combat, temporary airfields			
		Y/N: Able to mark and light landing zones IAW MMT TACSOP			
		Y/N: Able to provide navigational assistance			

	Y/N: Able to establish and control tactical landing zones (TLZs) for fixed-wing aircraft, and helicopter landing zones (HLZs) for rotary-wing aircraft in remote locations			
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1.8 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX. This table provides a pictorial view of the relationship between the Core MCT (Marine Core Task) and each Core/Mission/Core Plus skill required to perform the MCT. Shading indicates Core Plus.

MATCD														
MISSION ESSENTIAL TASK (MET) TO CORE/MISSION/CORE PLUS SKILL MATRIX														
MET	CORE SKILLS							MISSION SKILLS				CORE PLUS		
	2000 PHASE							3000 PHASE				4000 PHASE		
	ORNT	EQPT	EXPD	COMM	MMTL	MMTM	FWO	ATC	TWR	RDR	MMT	EXPD	COMM	C2SYS
5.3.5.4.1	X	X	X	X	X	X	X	X				X	X	X
5.3.5.4.1.1	X	X	X	X			X		X					
5.3.5.4.1.2	X	X	X	X			X			X				
5.3.5.4.1.3		X	X	X	X	X					X			

1.9 CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS. The CMMR is the optimum number of personnel required to complete a MET capable element for each Core Skill depicted below. Core Plus skills are not required to complete a MET capable element.

MATC		
CORE MODEL MINIMUM REQUIREMENTS (CMMR)		
CORE/MISSION/CORE PLUS SKILLS CREW POSITION PROFICIENCY REQUIREMENTS		
ATC/TOWER/RADAR/MMT		
CORE SKILLS (2000 PHASE)		
CORE SKILLS	7220	7257/7291
ORNT	3	13
EQPT	3	13
EXPD	3	13
COMM	3	13
MMTL	3	13
MMTM	3	13
FWO	3	13
MISSION SKILLS (3000 PHASE)		
MISSION SKILLS	7220	7291/7257
ATC	3	1
TWR	0	13

RDR	0	19
MMT	1	11
<b>CORE PLUS SKILLS (4000 SKILLS)</b>		
<b>CORE PLUS SKILLS</b>	<b>7220</b>	<b>7291/7257</b>
EXPD	0	0
COMM	0	0
C2SYS	0	0
DLC	0	1

1.10 INSTRUCTOR DESIGNATIONS (5000 PHASE)

<b>MATC</b>			
<b>INSTRUCTOR DESIGNATIONS (5000 PHASE)</b>			
<b>CMMR</b>			
<b>ATC DETACHMENT</b>			
<b>INSTRUCTOR DESIGNATIONS</b>	<b>ATC DET</b>	<b>TWR DET</b>	<b>RDR DET</b>
BASIC INSTRUCTOR (BI)	4	2	2
SENIOR INSTRUCTOR (SI)	2	1	1
MATC MOBILE TEAM INSTRUCTOR (MMTI)	1	0	0
TERMINAL INSTRUMENT INSTRUCTOR (TERPSI)*	1	0	0
WEAPONS AND TACTICS INSTRUCTOR (WTI)*	2	0	0

\*NOTE: The TERPSI requirement is one per Squadron. This individual may reside at the Detachment or on the squadron staff. Per the WTPP order, the MACS rates two MATC WTIs at the squadron headquarters.

1.11 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (R, C, Q & D) (6000 PHASE)

<b>MATC</b>		
<b>REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 PHASE)</b>		
<b>CMMR (T-2)</b>		
<b>ATC DETACHMENT</b>		
<b>RCQD</b>	<b>7220</b>	<b>7291/7257</b>
EXPEDITIONARY RADAR FLIGHT DATA	0	4
EXPEDITIONARY RADAR FINAL CONTROLLER	0	8
EXPEDITIONARY RADAR ARRIVAL/DEPARTURE CONTROLLER	0	4
EXPEDITIONARY RADAR APPROACH CONTROLLER	0	4
EXPEDITIONARY TOWER FLIGHT DATA CONTROLLER	0	4
EXPEDITIONARY CLEARANCE DELIVERY	0	4

EXPEDITIONARY TOWER GROUND CONTROLLER	0	4
EXPEDITIONARY TOWER LOCAL CONTROLLER	0	4
MMT MEMBER	0	12
MMT LEADER	2	2
DATA LINK COORDINATOR	0	0
RADAR SUPERVISOR	0	4
RADAR CHIEF	0	4
TOWER SUPERVISOR	0	4
TOWER CHIEF	0	1
TRAINING CHIEF	0	0
FACILITY NCOIC	0	0
DETACHMENT OPERATIONS/TRAINING CHIEF	0	0
MACS OPERATIONS CHIEF	0	0
MATC DET NCOIC	0	1
FACILITY WATCH OFFICER	0	0
TERPS SPECIALIST	0	0
MATC DET COMMANDER	1	0
MEU MACG DETACHMENT COMMANDER	0	0
MATC DETACHMENT WATCH COMMANDER	2	0

1.12 UNIT EXTERNAL SYLLABUS RESOURCE REQUIREMENTS. To effectively accomplish the tactical employment events for the Marine Air Traffic Control Syllabus, access to functional expeditionary airfields with associated airspace is required.



CHAPTER 2

MARINE AIR TRAFFIC CONTROL OFFICER (MATCO) 7220  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 2  
MARINE AIR TRAFFIC CONTROL OFFICER (MATCO)  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

2.0 MATCO INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

2.1 MATCO (MOS 7220) TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average MATCO. Units should use the model as a point of departure to generate individual training plans.

Officer Progression Model				
	FWO	MMT Leader WC	DET CO	OPSO
7201 TBS AC(A1)	7220 ACPM 8000 ACPM 8020	MMTI MEU ACPM 8040 ACPM 8060 ACPM 8080	WTI AOC IQT MEU DET AOPSO ATCFO EWS	7202 XO CSC
1 year	2 years	3-4 years	5-10 years	10+ years

2.2 ABBREVIATIONS

MATCO (7220)	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
ORNT	ORIENTATION
EQPT	EQUIPMENT
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
MMTL	MMT LEADER
MMTM	MMT MEMBER
FWO	FACILITY WATCH OFFICER
MISSION SKILLS (3000 PHASE)	
MMTL	MMT LEADER
MMTM	MMT MEMBER
TERPS	TERMINAL INSTRUMENT PROCEDURES
TFD	TOWER FLIGHT DATA
TGC	TOWER GROUND CONTROLLER
RFD	RADAR FLIGHT DATA
RFC	RADAR FINAL CONTROLLER

CORE PLUS SKILLS (4000 PHASE)	
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
C2SYS	COMMAND AND CONTROL SYSTEMS

2.3 DEFINITIONS

TERM	DEFINITION
Core Model	The Core Model is the basic foundation or standardized format by which all T&Rs are constructed. The Core model provides the capability of quantifying both unit and individual training requirements and measuring readiness. This is accomplished by linking community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices
Core Skill	Fundamental, environmental, or conditional capabilities required to perform basic functions. These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. Primarily 2000 Phase events but may be introduced in the 1000 Phase.
Mission Skill	Mission Skills enable a unit to execute a specific MET. They are comprised of advanced event(s) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed during Core Skill training. 3000 Phase events.
Core Plus Skill	Training events that can be theater specific or that have a low likelihood of occurrence. They may be Fundamental, environmental, or conditional capabilities required to perform basic functions. 4000 Phase events.
Core Plus Mission	Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events.
Core Skill Proficiency (CSP)	CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP.
Mission Skill Proficiency (MSP)	MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness.
Core Plus Skill Proficiency (CPSP)	CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP
Core Plus Mission Proficiency (CPMP)	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP

2.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

2.4.1 Management of individual CSP/MSP/CPSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

2.4.2 Individual CSP is a "Yes/No" status assigned to an individual by Core Skill. When an individual attains and maintains CSP in a Core Skill, the individual counts towards CMMR Unit CSP requirements for that Core Skill.

2.4.3 Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

2.4.4 Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix. An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***

Individuals may be attaining proficiency in some Core/Mission/Core Plus Skills while maintaining proficiency in other Core/Mission/Core Plus Skills.

2.4.5 Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event. Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that Skill. To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that Skill.

MATCD 7220					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY			MAINTAIN PROFICIENCY		
BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
TFD	ORNT 2000	TFD		TFD	
	EQPT 2003R		EQPT 2003R		EQPT 2003R
	EQPT 2004R		EQPT 2004R		EQPT 2004R
	EQPT 2006				
TGC	ORNT 2000	TGC		TGC	
	EQPT 2003R		EQPT 2003R		EQPT 2003R
	EQPT 2004R		EQPT 2004R		EQPT 2004R
	EQPT 2006				
RFC	ORNT 2000	RFC		RFC	
	EQPT 2019				
	COMM 2207				
RFD	ORNT 2000	RFD		RFD	
	EQPT 2018R		EQPT 2018R		EQPT 2018R
	COMM 2207				
FWO	ORNT 2000	FWO		FWO	

	EQPT 2003R		EQPT 2003R		EQPT 2003R
	EQPT 2004R		EQPT 2004R		EQPT 2004R
	EQPT 2018R		EQPT 2018R		EQPT 2018R
	EXPD 2103				
	EXPD 2106				
	FWO 2600				
	FWO 2700				
	FWO 2800				
	EQPT 2001				
	EQPT 2002				
	EQPT 2005				
	EQPT 2006				
	EQPT 2009				
	EQPT 2010				
	EQPT 2011				
	EQPT 2012				
	EQPT 2030R		EQPT 2030R		EQPT 2030R
	EXPD 2100				
WC	EXPD 2101	WC		WC	
	EXPD 2102				
	EXPD 2105				
	EXPD 2120				
	EXPD 2121				
	EXPD 2122				
	EXPD 2123				
	EXPD 2124				
	EXPD 2125				
	EXPD 2135				
	MMTL 2300R		MMTL 2300R		MMTL 2300R
	EQPT 2025				
	EQPT 2026				
	EQPT 2030R		EQPT 2030R		EQPT 2030R
	EQPT 2031R		EQPT 2031R		EQPT 2031R
	EXPD 2104				
	EXPD 2120				
	EXPD 2122				
	EXPD 2123				
MMT	EXPD 2124	MMT		MMT	
	COMM 2200R		COMM 2200R		COMM 2200R
	COMM 2204R		COMM 2204R		COMM 2204R
	COMM 2205R		COMM 2205R		COMM 2205R
	COMM 2208R		COMM 2208R		COMM 2208R
	MMTL 2300R		MMTL 2300R		MMTL 2300R
	MMTL 2301R		MMTL 2301R		MMTL 2301R
	MMTL 2302R		MMTL 2302R		MMTL 2302R
	MMTM 2310R		MMTM 2310R		MMTM 2310R

	MMTM 2311R		MMTM 2311R		MMTM 2311R
	MMTM 2312R		MMTM 2312R		MMTM 2312R
<b>MISSION SKILL (3000 Phase)</b>					
<b>STAGE</b>	<b>CODE</b>	<b>STAGE</b>	<b>CODE</b>	<b>STAGE</b>	<b>CODE</b>
ATC	TFD 3600R	ATC	TFD 3600R	ATC	TFD 3600R
	TGC 3620R		TGC 3620R		TGC 3620R
	RFC 3710R		RFC 3710R		RFC 3710R
	RFD 3700R		RFD 3700R		RFD 3700R
	TFD 3600R		TFD 3600R		TFD 3600R
	TGC 3620R		TGC 3620R		TGC 3620R
	RFC 3710R		RFC 3710R		RFC 3710R
	RFD 3700R		RFD 3700R		RFD 3700R
	TERPS 3500				
	TERPS 3501				
	TERPS 3502				
	TERPS 3503				
	TERPS 3504				
	TERPS 3505				
	MMTL 3300R		MMTL 3300R		MMTL 3300R
	MMTL 3301R		MMTL 3301R		MMTL 3301R
	MMTL 3302R		MMTL 3302R		MMTL 3302R
	MMTM 3310R		MMTM 3310R		MMTM 3310R
MMTM 3311R	MMTM 3311R	MMTM 3311R			
MMTM 3312R	MMTM 3312R	MMTM 3312R			
TWR	TFD 3600R	TWR	TFD 3600R	TWR	TFD 3600R
	TGC 3620R		TGC 3620R		TGC 3620R
RDR	RFC 3710R	RDR	RFC 3710R	RDR	RFC 3710R
	RFD 3700R		RFD 3700R		RFD 3700R
MMT	MMTL 3300R	MMT	MMTL 3300R	MMT	MMTL 3300R
	MMTL 3301R		MMTL 3301R		MMTL 3301R
	MMTL 3302R		MMTL 3302R		MMTL 3302R
	MMTM 3310R		MMTM 3310R		MMTM 3310R
	MMTM 3311R		MMTM 3311R		MMTM 3311R
	MMTM 3312R		MMTM 3312R		MMTM 3312R
<b>MISSION SKILL (4000 Phase)</b>					
<b>STAGE</b>	<b>CODE</b>	<b>STAGE</b>	<b>CODE</b>	<b>STAGE</b>	<b>CODE</b>
EXPD	EXPD 4000	EXPD		EXPD	
	EXPD 4001				
	EXPD 4002				
	EXPD 4003				
	EXPD 4004				
	EXPD 4012				
	EXPD 4013				
COMM	COMM 4015	COMM		COMM	
	COMM 4016				
	COMM 4017				

	C2SYS 4901R		C2SYS 4901R		C2SYS 4901R
	C2SYS 4902R		C2SYS 4902R		C2SYS 4902R
	C2SYS 4903R		C2SYS 4903R		C2SYS 4903R
	C2SYS 4904R		C2SYS 4904R		C2SYS 4904R
	C2SYS 4905R		C2SYS 4905R		C2SYS 4905R
C2SYS	C2SYS 4906R	C2SYS	C2SYS 4906R	C2SYS	C2SYS 4906R
	C2SYS 4910R		C2SYS 4910R		C2SYS 4910R
	C2SYS 4913R		C2SYS 4913R		C2SYS 4913R
	C2SYS 4921R		C2SYS 4921R		C2SYS 4921R
	C2SYS 4922R		C2SYS 4922R		C2SYS 4922R
	C2SYS 4940R		C2SYS 4940R		C2SYS 4940R

2.5 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS TABLES.  
The tables below delineate T&R events required to be completed to attain proficiency for select certifications, qualifications, and designations. In addition to event requirements, all required stage lectures, briefs, detachment or facility training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, qualification and designation letters signed by the Commanding Officer shall be placed in training Performance Records. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

2.5.1 Instructor Designations. Unit instructors are designated by the commanding officer. Instructor designations are outlined in the MAWTS-1 C3 Course Catalog and applicable directives.

MATCO 7220	
INSTRUCTOR DESIGNATIONS (5000 PHASE)	
INSTRUCTOR DESIGNATION	EVENTS
BASIC INSTRUCTOR (BI)	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	5100, 5110, 5120, 5130, 6320
MATC MOBILE TEAM INSTRUCTOR (MMTI)	6004
WEAPONS AND TACTICS INSTRUCTOR (WTI)	6000

2.5.3 Qualifications. Qualifications are assigned to personnel based on demonstration of proficiency in a specific skill. All qualifications are assigned one or more T&R qualification events. When all qualification requirements and events are completed, the individual may be granted the respective qualification by the commanding officer. Proficiency status of these qualification events are used to determine qualification status; an individual qualification status may be either "Qualified" or "Not Qualified."

MATCO 7220 (6000 PHASE)
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QUALIFICATION	TRACKING CODE	REQUIREMENTS
TOWER FLIGHT DATA CONTROLLER	QUAL 6153	3600
TOWER GROUND CONTROLLER	QUAL 6173	3620
RADAR FLIGHT DATA	QUAL 6103	3700
RADAR FINAL CONTROLLER	QUAL 6113	3710
MATC MOBILE TEAM MEMBER	QUAL 6203	3310, 3311, 3312, 6500
MATC MOBILE TEAM LEADER	QUAL 6213	3300, 3301, 3302, 6200

2.5.4 Designation. A designation is a status assigned to an individual based on leadership ability. Designations are command specific and remain in effect until removed for cause or the individual is transferred to another command. Follow-on commands shall repeat the "initial documentation procedure." T&R syllabi shall refer to the MAWTS-1 C3 course catalog and other applicable directives for instructor designation criteria.

DESIGNATION	TRACKING CODE	REQUIREMENTS
BASIC INSTRUCTOR	DESG 6320	5000, 5010, 5020
SENIOR INSTRUCTOR	DESG 6321	5100, 5110, 5120, 5130, 6320
WEAPONS AND TACTICS INSTRUCTOR	DESG 6322	6000
MATC MOBILE TEAM INSTRUCTOR	DESG 6324	6004
MATC FACILITY OFFICER	DESG 6420	6500
MATCD COMMANDER	DESG 6430	6500
MEU MACG DETACHMENT OIC	DESG 6440	6500

2.5.5 Certification. A certification refers to the evaluation process conducted via syllabus events by a designated instructor or authorized personnel for the purpose of assessing individual skills as a prerequisite to qualification or designation. A certification also serves as a "one-time" assessment for proficiency for a given skill or position that does not expire. Certifications include completion codes for formal schools/courses.

Note: Certification 6500, Facility Watch Officer (FWO) is given as a designation letter from the Facility Officer. Once the officer undergoing the FWO syllabus has completed the requirements listed below, and receives this letter, the CERT 6500 code is run in M-SHARP. The certification recognizes the one-time nature of attaining the FWO designation.

CERTIFICATIONS	TRACKING CODE	REQUIREMENTS
FACILITY WATCH OFFICER	CERT 6500	8551, 8552, 8553, 8554, 8555, 2600, 2700, 2800, 6113, 6173, 6100, 6110, 8000, 8020
MATCD WATCH COMMANDER	CERT 6510	8560, 8561, 8562, 8563, 8570, 8571, 8701, 8702, 8703, 8704, 8705, 3500, 3501, 3502, 3503, 3504, 3505, 2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012, 2030, 2100, 2101, 2105, 2120, 2121, 2122, 2123, 2124, 2125, 2135, 2300, 6500, ACPM COMPLETE

2.6 MATCO (7220) PROGRAMS OF INSTRUCTION (POI)

2.6.1 Basic POI

MATCO 7220		
BASIC POI		
WEEKS	PHASE OF INSTRUCTION	UNIT
1-16	CORE SKILL INTRODUCTION TRAINING	NATTC
17-125	CORE SKILL TRAINING	MACS/ATC FACILITY
17-125	MISSION SKILL TRAINING	MACS
126+	CORE PLUS TRAINING	MACS

2.6.2 Refresher POI. MATC Officers may be required to maintain proficiency while assigned to a MCAS for initial qualification. MATC Officers assigned to duties that require C2SYS proficiency will attain and maintain proficiency in accordance with the MAWTS-1 C3 course catalog, or by the TACC T&R manual if assigned to MTACS.

MATCO 7220		
REFRESHER POI		
WEEKS	PHASE OF INSTRUCTION	UNIT
VARIES	CORE SKILL TRAINING	MACS/ATC FACILITY
VARIES	MISSION SKILL TRAINING	MACS
VARIES	CORE PLUS TRAINING	MACS

2.7 SYLLABUS NOTES. The purpose of this section is to provide a standardized training program for all MATC officers. The overall goal is to develop unit war fighting capabilities and not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective T&R program is the first step in providing the MAGTF commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat proficiency and readiness. Using these tools, training managers can construct and execute an effective training plan that supports unit METs.

Due to the complexities of the the MATC training pipeline, the following guidance is given. Per the NAVAIR 00-80T-114 Air Traffic Control NATOPS Manual, CNO N885F is the ATC facility classification authority for the Department of the Navy (DON). ATC facility classification determines which ATC skill sets DON air traffic controllers can train to and qualify for. In accordance with the NAVAIR 00-80T-114, MARADMIN 229/04 lists ATC services provided, ATC skill sets trained to, MOS and CTO/ATCS ratings available at MCAS and MCAF ATC facilities based on CNO N885F assigned ATC facility classifications. The policy set forth in MARADMIN 229/04 remains in effect until cancelled by HQMC/Aviation (APX).

2.7.1 Environmental Conditions Matrix

Environmental Conditions
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Code	Meaning
D	Shall be conducted during hours of daylight: (by exception - there is no use of a symbol)
N	Shall be conducted during hours of darkness, may be aided or unaided
N*	Shall be conducted during hours of darkness must be flown unaided
(N*)	May be conducted during hours of darkness – If conducted during hours of darkness must be flown unaided
(N)	May be conducted during darkness – If conducted during hours of darkness; may be flown aided or unaided
NS	Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices
(NS)	May be conducted during darkness – If conducted during hours of darkness; must be flown with Night Vision Devices
Note – If the event is to be conducted in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

2.7.2 Device Matrix

DEVICE	
Symbol	Meaning
L	Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event.
L/S	Event performed live preferred/simulator optional.
S/L	Event performed in simulator preferred/live optional.
G	Ground/academic training. May include Distance Learning, CBT, lectures, self paced.
CBT	Computer Based Training
LAB	Laboratory
LEC	Lecture
CP	Command Post
TEN	Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station.
TEN+	Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement.
Note – If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

2.7.3 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX

Program of Instruction (POI)	Symbol
B	BASIC
R	REFRESHER
M	MAINTAIN
G	Ground/academic training. May include Distance Learning, CBT, lectures, self paced.
CBT	Computer Based Training
LAB	Laboratory
LEC	Lecture
CP	Command Post
TEN	Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station.
TEN+	Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement.
Note – If the event is to be fiown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

#### 2.7.4 Event Terms

EVENT TERMS	
TERM	DESCRIPTION
Discuss	An explanation of systems, procedures, or tactics during the brief, exercise, or debrief. Student is responsible for knowledge of procedures.
Demonstrate	The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event.
Introduce	The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of an event by the student.
Evaluate	Any event designed to evaluate team/crew standardization that does not fit another category.
E-Coded	This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.)

#### 2.8 CORE SKILL INTRODUCTION TRAINING (1000)

2.8.1 Purpose. To provide classroom entry-level instruction on ATC concepts, regulations, procedures and operating techniques as well as MATC doctrine and capabilities. The instruction ensures understanding and application of MATC rules and regulations required for a controller to qualify and perform ATC functions at a MATCD or MCAS. Upon completion of the

Air Traffic Controller Course, the Marine officer possesses the same certification obtained by FAA controller graduates from the National FAA Air Traffic Control School.

2.8.2 General

2.8.2.1 Prerequisite. Meet the requirements delineated in the MOS Manual, MCO 1200.17.

2.8.2.2 Admin Notes. Marine Air Traffic Control Officer (MATCO) Course, NAS Pensacola, FL.

2.8.2.3 Stages. The following stages are included in the Core Skill Introduction Phase of training.

PAR NO.	STAGE NAME
2.8.3	AIR TRAFFIC CONTROL (ATC)
2.8.4	MARINE AIR TRAFFIC CONTROL OFFICER (MATCO)

2.8.3 Air Traffic Control (ATC)

2.8.3.1 Purpose. To provide classroom entry-level instruction on ATC concepts, regulations, procedures and operating techniques as well as MATC doctrine and capabilities. The instruction ensures understanding and application of MATC rules and regulations required for a controller to qualify and perform ATC functions at a MATCD or MCAS.

2.8.3.2 General

Admin Notes. During this stage, the MATCO undergoes the same training as the enlisted controller.

Total Training Events

- (1) Live / Simulated - 18 events, 293 hours;
- (2) Simulator - 4 events, 144 hours.

ATC-1100 32.0 B \_\_\_\_\_ L

Goal. Introduce weather as applied to ATC.

Requirement. Describe aviation weather to include:

- 1. Basic weather characteristics.
- 2. Weather hazards.
- 3. Aviation weather observations.
- 4. Aviation weather forecasts.
- 5. Weather advisories.
- 6. Weather observing programs.
- 7. Aviation sequence reports.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

- 1. JO 7110.65
- 2. NAVMETOCCOMINST 3141.2

ATC-1105 22.0 B L

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Goal. Introduce airspace, navigation, and time as applied in ATC.

Requirement. Describe the National Airspace System (NAS), time conversions, and basic navigation.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. JO 7110.65
2. NAVAIR 00-80V-49, Air Navigation

ATC-1110 1.0 B L

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Goal. Introduce Special Use Airspace (SUA) used by the military.

Requirement. Describe SUA and controller responsibilities within each.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference. JO 7110.65

ACAD-1115 22.0 B L

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Goal. Introduce Navigational Aids (NAVAIDS).

Requirement. Describe basic radio theory and NAVAIDS.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. FAA JO 7110.65
2. NAVAIR 00-80T-112

ATC-1120 22.0 B L

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Goal. Introduce charts and publications used in ATC.

Requirement. Given aeronautical charts and publications, locate information and complete statements per the Flight Information Publications (FLIP) program.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. General Planning (GP) section of DOD Flight Information Publication Program (FLIP)
2. CFR, part 91 and 93

ATC-1125 6.0 B L

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Goal. Introduce communications as applied in ATC.

Requirement. Describe communication procedures used in ATC.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference. JO 7110.65

ATC-1130 16.0 B L

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Goal. Introduce airport design and ATC equipment.

Requirement. Describe airport design and ATC equipment.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. FAA JO 7110.65.
2. NAVFAC P-80.
3. NAVAIR 51-50AAA-2.
4. NAVAIR 00-80T-114.
5. FAA JO 7210.3.

ATC-1135 22.0 B L

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Goal. Introduce general Tower procedures.

Requirement. Describe general MATC procedures to include:

1. General control.
2. Weather information.
3. Federal Aviation Regulation (FAR) Part 91.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. FAA JO 7110.65.
2. Title 14 CFR Part 91.
3. OPNAVINST 3710.7.

ATC-1140 30.0 B L

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Goal. Introduce ATC terminal procedures.

Requirement. Select statements that describe general MATC procedures used in a terminal environment.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1145 8.0 B L

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Goal. Introduce emergencies and special handling.

Requirement. Describe handling of emergency aircraft and special situations in a control tower environment.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. OPNAVINST 3710.7.

ATC-1150 14.0 B L

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Goal. Introduce non-radar procedures.

Requirement. Describe general non-radar procedures as applied in MATC.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1155 14.0 B L

---

Goal. Pass the Airmen's Written Test (AWT).

Requirement. Conduct a thorough review of all information taught in FAM-1000 through FAM-1010.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. JO 7110.65.
2. Title 14 CFR Part 91, 67, 65.

ATC-1200 14.0 B L

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Goal. Control Tower Indoctrination.

Requirement. Describe the different operating positions in a control tower and the individual responsibilities of each.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.

ATC-1205 40.0 B 1 15G32 S

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Goal. Control Tower Indoctrination.

Requirement. Perform IAW the JO 7110.65 and applicable instructions while observing all safety precautions on the following operating positions:

1. Flight Data
2. Ground Control
3. Local Control

Performance Standard. Pass a practical exam with a minimum score of 70%.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.

ATC-1300 6.0 B \_\_\_\_\_ L

Goal. Introduce Basic Radar Knowledge.

Requirement. Describe the different operating positions in a radar facility, define basic radar theory, and identify associated equipment.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.

ATC-1305 30.0 B \_\_\_\_\_ L

Goal. Introduce basic radar services provided by ATC.

Requirement. Describe basic radar services and procedures.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1310 14.0 B \_\_\_\_\_ L

Goal. Introduce Airport Surveillance Radar (ASR).

Requirement. Describe terms and procedures used by an ASR Final Controller.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1315 34.0 B \_\_\_\_\_ 1 15G31 \_\_\_\_\_ S

Goal. Perform Airport Surveillance Radar (ASR) services.

Requirement. Perform as a final controller in accordance with FAA JO 7110.65 while observing all safety precautions.

Performance Standard. Pass a practical exam with a minimum score of 70%.

Prerequisite. 1300, 1305, and 1310

Reference. JO 7110.65.

ATC-1320 12.0 B \_\_\_\_\_ L

Goal. Introduce Precision Approach Radar (PAR).

Requirement. Describe terms and procedures used by a PAR Final Controller.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1325 33.0 B 1 15G31 \_\_\_\_\_ S

Goal. Perform Precision Approach Radar (PAR) services.

Requirement. Perform as a final controller in accordance with FAA JO 7110.65 while observing all safety precautions.

Performance Standard. Pass a practical exam with a minimum score of 70%.

Prerequisite. 1300, 1305, and 1320

Reference. JO 7110.65.

ATC-1330 8.0 B \_\_\_\_\_ L

Goal. Introduce arrival control.

Requirement. Describe terms and procedures used by an Arrival Controller.

Performance Standard. Pass a written exam with a minimum score of 70%.

Reference. JO 7110.65.

ATC-1335 37.0 B 1 15G31 \_\_\_\_\_ S

Goal. Perform Arrival Control services.

Requirement. Perform as an arrival controller in accordance with FAA JO 7110.65 while observing all safety precautions.

Performance Standard. Pass a practical exam with a minimum score of 70%.

Prerequisite. 1300, 1305, and 1330

Reference. JO 7110.65.

2.8.4 Marine Air Traffic Control Officer (MATCO)

2.8.4.1 Purpose. To provide the MATCO with the background and understanding of MACCS and the MATCD to effectively employ and manage MATCD assets in a deployed environment.

2.8.4.2 General

Academic Training. MATCO formal course.

Total Training Events

- (1) Live - 32 events, 149 hours
- (2) Simulator - 0 events, 0 hours

MATCO-1400 6.0 B L

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Goal. Introduce Organization of the Marine Corps as it relates to ATC.

Requirement. Describe the organizational structure of Marine ATC, manpower, and the role and function of the following agencies:

- 1. Airfield Rescue and Firefighting.
- 2. Base Operations/Flight Planning.
- 3. Weather.
- 4. Fuel Division.
- 5. Ordnance/Explosive Ordnance Disposal.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

- 1. NAVAIR 00-80T-114.
- 2. NAVAIR 00-80T-115.
- 3. NAVAIR 00-80R-14.
- 4. OPNAVINST 3770.2.

MATCO-1401 10.0 B L

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Goal. Introduce Facility Management.

Requirement. Describe the management of an Air Traffic Control Facility, and the FAA flight check program to include:

- 1. Types/Priorities of Flight Checks.
- 2. Frequency of Periodic Flight Checks.
- 3. Post Flight Inspection Actions.
- 4. Facility Status Classification.
- 5. Military Contingency.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVAIR 00-80T-114.
2. JO 7110.65.
3. JO 7400.2.
4. JO 8200.1C.
5. MCO 3302.1D

MATCO-1402 3.0 B L

Goal. Introduce Facility Publications.

Requirement. Identify facility publications to include:

1. Facility Manual.
2. Air Operations Manual.
3. Procedural Letters
4. Fleet Assistance Program (FAP)

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVAIR 00-80T-114.
2. JO 7210.3.

MATCO-1403 2.0 B L

Goal. Introduce Mishap Procedures.

Requirement. Identify the elements in the mishap procedures process.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVAIR 00-80T-114.
2. OPNAVINST 3750.6.

MATCO-1404 4.0 B L

Goal. Introduce Special Use Airspace.

Requirement. Describe the procedures for scheduling and utilizing Special Use Airspace and discuss environmental analysis.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Prerequisite. 1110

Reference.

1. FAA Order 7400.2.
2. OPNAVINST 3770.2.

3. OPNAVINST 5090.1.

MATCO-1405 2.0 B L

Goal. Introduce Noise Abatement.

Requirement. Describe noise abatement and complaint procedures.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference. OPNAVINST 11010.36.

MATCO-1406 6.0 B L

Goal. Introduce Personnel Certification and Revocation.

Requirement. Identify controller qualifications and Standard and describe the controller revocation process.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. 14 CFR 65.
2. JO 7220.1.
3. NAVAIR 00-80T-114.
4. NAVMED P-117.
5. BUMEDINST 5300.8.

MATCO-1407 6.0 B L

Goal. Introduce the Training process.

Requirement. Determine personnel training requirements and explain the controller currency program.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVAIR 00-80T-114.
2. Air Installation Order (AIO) 3722.3. Marine Corps Air Installations East (MCIE) Air Traffic Control Order.

MATCO-1408 4.0 B L

Goal. Introduce the Training and Readiness Manual.

Requirement. Describe the Training and Readiness (T&R) Program.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. MCO P3500.14F.
2. NAVMC Dir 3500.98.

3. Marine Sierra Hotel Aviation Readiness Program (MSHARP).

MATCO-1409 2.0 B L

Goal. Introduce the Resource Management System.

Requirement. Describe the functions of the departments within a MALS and the funding issues to include:

1. Marine Corps Air Stations.
2. Air Traffic Control Detachments.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. OPNAVINST 4790.2 Section 2, chapter 7.
2. CNAPINST 7303.11.
3. SPAWAR INSTRUCTION 4700.9().
4. MCO P4400.177E .
5. COMNAVAIRFORINST 4790.2A.

MATCO-1410 3.0 B L

Goal. Introduce Maintenance Concepts.

Requirement. Describe maintenance supply procedures.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVSUP Publication P-485.
2. NAVSUP P-409.
3. NAVICP 4441.170.
4. FedLog User's Manual.

MATCO-1411 3.0 B L

Goal. Introduce maintenance inspections.

Requirement. Describe the Operational Capability Improvement request (OCIR) process, the NAALS program, and the elements of a Aviation Maintenance Management Team.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. OPNAVINST 3721.5.
2. OPNAVINST 4790.4 CH 4.

MATCO-1412 3.0 B L

Goal. Introduce Aviation Maintenance Supply and Readiness Reporting (AMSRR).

Requirement. Identify the elements of a Aviation Maintenance Supply and Readiness Reporting (AMSRR).

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. AMSRR Web 3.0 Software User Manual
2. MATCALs Quick Reference AMSRR Guide

MATCO-1413 4.0 B \_\_\_\_\_ L

Goal. Introduce Fleet Marine Force Organization.

Requirement. Describe the six functions of Marine aviation and the elements of a Marine Air Ground Task Force (MAGTF).

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. MCWP 3-2, Aviation Operations.
2. MCWP 3-22, Anti-air Warfare.
3. MCWP 3-24, Assault Support.
4. FMFM 6, Ground Combat Operations.
5. FMFM 5-10, Air Reconnaissance.
6. MCWP 2-15.4, Imagery Intelligence.

MATCO-1414 9.0 B \_\_\_\_\_ L

Goal. Introduce the Marine Air Command and Control System (MACCS).

Requirement. Identify the role, mission, and organization of the MACCS to include the following agencies:

1. Tactical Air Command Center (TACC).
2. Tactical Air Operations Center (TAOC).
3. Direct Air Support Center (DASC).
4. Marine Air Traffic Control Detachment (MATCD).
5. Marine Air Traffic Control Mobile Team (MMT).
6. Low Altitude Air Defense (LAAD).
7. Marine Unmanned Aerial Vehicle Squadron (VMU).
8. Marine Wing Communications Squadron (MWCS).

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. MCWP 3-25.3.
2. MCWP 3-25.4.
3. MCWP 3-25.7.
4. MCWP 3-25.5.
5. MCWP 3-25.8.
6. MCWP 3-25.10.

MATCO-1415 3.0 B L

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Goal. Introduce Marine Air Command and Control System (MACCS) Equipment.

Requirement. Describe the Theater Battle Management Core System (TBMCS) to include:

1. TBMCS Concepts.
2. Mission applications.
3. Integration: force to unit level.
4. The Joint Air Tasking Order Cycle.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. Software User's manual for Common Operating Procedures for Theater Battle Management Core System, Lockheed Martin Mission Systems.
2. Joint Pub 3-56.1.

MATCO-1416 8.0 B L

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Goal. Introduce Tactical Data Information Link (TDL).

Requirement. Explain Tactical Data Information Link (TDL) Theory over the following TDLs:

1. Link 11.
2. Link 11B.
3. Link 4A.
4. Link 16.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. Joint Tactical Air Operations Training Reference Notebook.
2. CJCSM 6240.01.

MATCO-1417 2.0 B L

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Goal. Introduce Communication Security (ComSec).

Requirement. Identify proper handling of ComSec equipment and materials.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Prerequisite. 1120

Reference. MCWP 6-22

MATCO-1418 8.0 B L

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Goal. Introduce Marine Air Traffic Control Landing System (MATCAL) Equipment.

Requirement. Describe the components and basic operation of the MATCAL equipment to include:

1. AN/TPS-73, Airport Surveillance Radar (ASR)
2. AN/TPN-22, Precision Approach Radar (PAR)
3. AN/TSQ-131(V), Control and Communication Subsystem (CCS)
4. AN/TPN-31A, Air Traffic Navigation, Integration, and Coordination System (ATNAVICS)

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support.

1. AN/TPS-73, Airport Surveillance Radar (ASR).
2. AN/TPN-22, Precision Approach Radar (PAR).
3. AN/TSQ-131(V), Control and Communication Subsystem (CCS).
4. AN/TPN-31A, Air Traffic Navigation, Integration, and Coordination System (ATNAVICS).

Reference.

1. EE200-AB-MAN-010/AN/TPS-73, Air Traffic Control Subsystem Operation and Maintenance Instructions Volume 1 Part 1.
2. EE216-BA-SOM-01B, System Operator's Manual for Automatic Landing System RADAR AN/TPN-22.
3. EE005-DM-OMI-020, Control and Communication subsystem AN/TSQ-131.
4. NAVAIR 16-60TPN31A-2, Operator Manual, Air Traffic Navigation, Integration, and Coordination System (ATNAVICS), AN/TPN-31A Operations and Maintenance Instructions.

MATCO-1419 8.0 B 1 AN/TSQ-131 1 AN/TPN-22 L

Goal. Introduce System Initialization (SI) Data.

Requirement. Define System Initialization (SI) Data and those element related to it.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support.

1. AN/TSQ-131(V), Control and Communication Subsystem (CCS).
2. AN/TPN-22, Precision Approach Radar (PAR).

Reference. MATCAL Operational Software Supplemental Training Course, Version 95-1.0.

MATCO-1420 8.0 B 1 AN/TSQ-131 L

Goal. Introduce Map Building.

Requirement. Identify the required entry data for map building.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support. AN/TSQ-131(V), Control and Communication Subsystem (CCS).

Reference. MATCALs Operational Software Supplemental Training Course, Version 95-1.0.

MATCO-1421 8.0 (\*) B 1 AN/TSQ-131 L

Goal. Introduce Training Modes.

Requirement. Identify the required Training Control Entry Data for simulation generation for the following modes:

1. Arrival Departure Control (ADC)
2. Final Control (FC)

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support. AN/TSQ-131(V), Control and Communication Subsystem (CCS).

Reference. MATCALs Operational Software Supplemental Training Course, Version 95-1.0.

MATCO-1422 1.0 B L

Goal. Introduce Mode II Certification.

Requirement. Describe mode II approach capabilities and procedures.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. EE216-BA-SOM-01B, System Operator's Manual for Automatic Landing System RADAR AN/TPN-22.
2. EE005-DM-OMI-020, Control and Communication subsystem AN/TSQ-131.

MATCO-1423 2.0 B L

Goal. Introduce the Tower and TACAN Equipment.

Requirement. Identify the elements of an MMT and a MATCALs suite with tower/TACAN to include:

1. AN/TSQ-120B, Air Traffic Control Central.
2. AN/TSQ-216, Remote Landing Site Tower (RLST).
3. AN/TRN-44A, Tactical Air Navigational Aid (TACAN).
4. AN/TRN-46, Distance and Azimuth Measuring Equipment (DAME).

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support.

1. AN/TSQ-216, Remote Landing Site Tower (RLST).
2. AN/TRN-44A, Tactical Air Navigational Aid (TACAN).
3. AN/TRN-46, Distance and Azimuth Measuring Equipment (DAME).

Reference.

1. EE100-UQ-OMI-010, AN/TSQ-120B Air Traffic Control Central.
2. RLST Technical Manual AE-RLST-OMI-200.
3. NAVELEX 0913-LP-000-5010 TACAN AN/TRN-44 Technical Manual, Vol 1.
4. NAVAIR 16-60TRN46-1.

MATCO-1424 2.0 B L

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Goal. Introduce Marine Air Traffic Control Detachment (MATCD) Communication Equipment.

Requirement. Describe MATCD Communications equipment to include:

1. RT-1694 (AN/PRC-150 HF).
2. RT-1319B/URC (AN/PRC-113 UHF AM).
3. RT-1523E (AN/PRC-119 VHF SINGARS).
4. AN/GRC-171 (V) (Tower).
5. AN/GRC-171 (V) (Link 11C).
6. AN/GRC-211.
7. AN/URC-94 (V).
8. AN/VRC-82/HT-1000 (Crash Net).
9. KG-84C.
10. KY-58 and 99.
11. KIR-1A.
12. ARC-210.
13. CYZ-10.
14. RT-1796/AN/PRC-117F.
15. KY-99.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support.

1. AN/TSQ-216, Remote Landing Site Tower (RLST).
2. AN/TSQ-131(V), Control and Communications Subsystem.

Reference.

1. EE005-DM-OMI-010, Control and Communications Subsystem AN/TSQ-131(V).
2. EE005-DM-OMI-020, Control and Communications Subsystem AN/TSQ-131(V).
3. EE100-UQ-OMI-010, AN/TSQ-120B Air Traffic Control Central
4. 16-60TSQ216-100, RLST Organizational Level Deployment and Operating Procedures.
5. 16-60TSQ216-200, RLST Organizational Level Maintenance and Parts List vol 1.
6. 16-60TSQ216-210, RLST Organizational Level Maintenance and Parts List vol 2.

MATCO-1425 1.0 B L

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Goal. Introduce Marine Air Traffic Control Detachment (MATCD) Utilities Equipment.

Requirement. Describe MATCD Utilities equipment to include:

1. AN/HD-1099, Environmental Control Unit.
2. BO014, Environmental Control Unit.
3. PU-820 T 35 K generator sets.
4. AN/MEP-531A Generator.
5. M1022A1 Mobilizer.
6. M1097, HMMWV HV.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. NAVAIR 19-45-5 Generator Set, PU-820/T.
2. EG510-AB-OMI-010/PD70-HD1099 Air Conditioner, HD-1099/TSQ.
3. TM11082-OI Air Conditioner, B0014 ECU.
4. TM-9-2330-390-14p, M1022A1 Mobilizer Dolly Set.

MATCO-1426 8.0 B \_\_\_\_\_ L

Goal. Introduce the Deployment of the Marine Air Traffic Control Detachment (MATCD).

Requirement. Prepare and complete a pre-deployment checklist and associated paperwork.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference. MCWP 3-25.8.

MATCO-1427 8.0 B \_\_\_\_\_ L

Goal. Introduce the Embarkation of the Marine Air Traffic Control Detachment (MATCD).

Requirement. Identify the procedures for embarkation of the MATCD equipment to include:

1. AN/TSQ-120B, Expeditionary Control Tower.
2. AN/TPN-31A, Air traffic Navigation Integration System (ATNAVICS)
3. AN/TSQ-216, Remote Landing Site Tower.
4. AN/TSQ-131(V), Control and Communication Subsystem.
5. AN/TRN-44A, TACAN.
6. AN/TPN-22, All-Weather Landing Subsystem.
7. TSM-170, Maintenance Van.
8. AN/TSQ-73, Surveillance Radar.
9. Equipment requiring movement with a 30-ton crane.
10. Equipment requiring movement with a 7.5-ton crane.
11. Equipment requiring movement with a 10,000 lb forklift.
12. Equipment requiring movement with a 6,000 lb forklift.
13. Ground transportation requirements to the APOE/APOD site.
14. Equipment requiring movement with a RATCH.
15. Pallet construction and packing.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. MCO 3120.6.
2. System Operator's Manual EE216-BA-SOM-010/AN/TPN-22
3. SPAWAR P4110.566, chapter 5.
4. Handbook For Tower, Shelter Support, Manufacturing Model 96024 ARC-M-1001 (Military Designation AB-1236).

MATCO-1428 8.0 B \_\_\_\_\_ L

Goal. Introduce Site Location and Development of the Marine Air Traffic Control Detachment (MATCD).

Requirement. Participate in the planning and conduct of a site survey for the placement of a MATCD. Perform the following:

1. Select a MATCD site considering:
  - a. Mission.
  - b. Tower site with best view of airport, Class D airspace, and patterns.
  - c. PAR site that affords clear avenues.
  - d. Reconnaissance of selected sites.
  - e. ASR site that provides minimal terrain masking.
  - f. Radar coverage of the area of operations (AO).
  - g. Camouflage.
  - h. Site security.
  - i. Support equipment.
2. Account for the following MATCD equipment characteristics:
  - a. Sighting limits of the radar set.
  - b. Optimum runway/sector coverage.
  - c. Obstructions to radar view.
  - d. Terrain characteristics.
  - e. Typical sighting configurations.
  - f. Power requirements.
  - g. Installation requirements.
  - h. Wind survival tie-down procedures.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Prerequisite. 1418, 1422, 1423

Range Requirement.

1. NOLF Wolf.
2. NOLF Barin.

Reference.

1. EE172-AB-OMI-010/5201, Navigational Set, TACAN AN/URN-25 Volume I.
2. Greco, Salvatore V., TACAN Principles and Criteria.
3. EE216-BA-SOM-010-/AN/TPN-22, System Operators Manual AN/TPN-22 Radar Set.
4. Naval Training Plan 6(C), Spectrum Management Manual.
5. EE200-AB-MAN-010/AN-TPS-73, AN/TPS-73 Air Traffic Control Subsystem Operation and Maintenance Instructions (VIP1).

6. EE005-DM-OMI/PD70-TSQ-131, An/TSQ-131(V) Communication and Control Subsystem.
7. Preliminary Manual AN/TSQ-120B, NAVELEX 0967-LP-008-9000 Control Tower AN/TSQ-120B Technical Manual.
8. MCWP 3-25.8.

MATCO-1429 1.0 B L

Goal. Introduce Retrograde of the Marine Air Traffic Control Detachment (MATCD).

Requirement. Identify the procedures to retrograde the MATCALS.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

Reference.

1. Navigational Set, TACAN AN/URN-25 Vol I.
2. EE216-BA-SOM-010-/AN/TPN-22, System Operators Manual AN/TPN-22 Radar Set.
3. EE200-AB-MAN-010/AN-TPS-73, AN/TPS-73 Air Traffic Control Subsystem Operation and Maintenance Instructions (VIP1).
4. SPAWAR P4110.566, Operational Logistics Support Summary.
5. MCWP 3-25.8, Marine Air Traffic Control Handbook.

MATCO-1430 4.0 B L

Goal. Introduce Expeditionary Airfields.

Requirement. Describe the role of Expeditionary Airfield (EAF) personnel.

Performance Standard. Complete the end of lesson comprehensive review, scoring a minimum of 70%.

External Syllabus Support. Expeditionary Airfield personnel.

Reference. NAVAIR 00-80T-115.

MATCO-1431 2.0 B L

Goal. Pass the Concept of Employment brief.

Requirement. Conduct a thorough review of all information taught in MATCO-1400 through MATCO -1428.

Performance Standard. Pass the Concept of Employment brief, scoring a minimum of 70%.

Prerequisite. MATCO 1400 through MATC-1428.

## 2.9 CORE SKILL TRAINING (2000)

2.9.1 Purpose. To provide individual core skill training for the MATCO.



Performance Standard. Pass a written exam with a minimum score of 80%.

Instructor. BI.

Prerequisite. 8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. Local directives.

#### 2.9.4 Equipment (EQPT)

2.9.4.1 Purpose. To provide the MATCO the basic knowledge on air traffic control equipment. This stage facilitates an understanding of the capabilities and utilization of equipment organic to the MATCD and ATCF. Training will be conducted under the direct supervision of qualified instructors in an OJT environment. The stage is composed of familiarization with all the equipment employed by the MATCD and at the assigned air traffic control facility.

#### 2.9.4.2 General.

Total Training Events.

- (1) Live / Simulated - 14 events, 16 hours;
- (2) Simulator - 0 events, 0 hours.

EQPT-2001	1.0	(*)	B	MATCD	L
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Goal. Identify equipment organic to the MATCD.

Requirement. Given a display of MATCD equipment, identify each piece of equipment to include:

1. B000-14 ECU.
2. PU-820 35 kW, 60Hz generator.
3. MEP-531 generator.
4. M1022A1 mobilizer.
5. M1152 HMMWV.
6. Mobile Maintenance Facility vans.
7. AN/TPS-73 Air Traffic Control Subsystem.
8. AN/TPN-22 All-weather Landing Subsystem.
9. AN/TSQ-131 Control and Communication Subsystem.
10. AN/TRN-44 TACAN.
11. AN/TRN-47 TACAN.
12. AN/TSQ-120 Expeditionary Control Tower.
13. AN/TSQ-216 Remote Landing Site Tower.
14. AN/TPN-31A ATNAVICS.

Performance Standard. Identify each item and its concept of employment as it applies to varying levels of MATCD deployment.

Instructor. BI.

Reference. MCWP 3-25.8.

EQPT-2002	1.0	(*)	B	1 AN/TSQ-120	L
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1. Traffic tabulators.
2. FDIO.
3. BRANDS/BRITE.
4. Tower Display Workstation (TDW).
5. Personal Computer.

Performance Standard. Complete the requirement items IAW the reference. Proper operation was demonstrated with no assistance from the instructor.

Instructor. BI.

Reference.

1. Applicable Equipment Operators Manual.
2. Local publications.

EQPT-2005    1.0            (\*)                            B                            1 AN/TSQ-216            L

Goal. Explain the capabilities of the AN/TSQ-216.

Requirement. Given the AN/TSQ-216, identify and explain the following:

1. Number of operating positions supported and describe each.
2. Number of radios and nomenclature for each
3. Number of radio nets and frequency spectrum breakdown.
4. Number and types of landlines.
5. Recording equipment and its capabilities.
6. Weather reporting equipment and its capabilities.
7. ALDIS lamp.
8. ATIS.
9. Bailout alarm.
10. Configuration options.
11. Auxiliary support requirements for continuous operation
12. Remote capability of the RLST.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. NAVAIR 16-60TSQ263-1.
2. NAVAIR 16-60TPN31A-2.
3. MCWP 3-25.8.

EQPT-2006    1.0            (\*)                            B                            1 AN/TPN-31A            L

Goal. Explain the capabilities of the AN/TPN-31A.

Requirement. Given the AN/TPN-31A, identify and explain the following:

1. Configuration options.
2. Number of operating positions supported.
3. System software configuration options.
4. Number of radio nets and frequency spectrum breakdown.
5. Number and types of landlines.
6. Recording capabilities.

2 Feb 12

7. Weather reporting equipment.
8. Surveillance approach RADAR capabilities.
9. Precision approach RADAR capabilities.
10. Auxiliary support requirements for operating continuously.
11. Remote capability of the AN/TPN-31A.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. NAVAIR 16-60TPN31A-2.
2. NAVAIR 16-60TPN31A-2-1.
3. MCWP 3-25.8.

EQPT-2009 1.0 (\*) B 1 AN/TPS-73 L

Goal. Explain the capabilities of the AN/TPS-73.

Requirement. Given the AN/TPS-73, identify and explain the following for the radar:

1. Proper nomenclature.
2. Frequency spectrum.
3. Expected range and factors affecting the range of:
  - a. Primary radar coverage.
  - b. Secondary radar coverage.
4. Power requirements.
5. Factors relating to site placement.
6. Electronic warfare capabilities.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. Applicable Technical Manual.
2. MCWP 3-25.8.

EQPT-2010 1.0 (\*) B 1 AN/TPN-22 L

Goal. Explain the capabilities of the AN/TPN-22.

Requirement. Given the AN/TPN-22, identify and explain the following:

1. Proper nomenclature.
2. Frequency spectrum.
3. Expected range and factors affecting.
4. Power requirements.
5. Factors related to site selection.
6. Electronic warfare capabilities

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. Applicable Technical Manual.
2. MCWP 3-25.8.

EQPT-2011 1.0 (\*) B 1 AN/TRN-44 L

Goal. Explain the capabilities of the AN/TRN-44.

Requirement. Given the AN/TRN-44, identify and explain the following for the TACAN:

1. Configuration options.
2. Proper nomenclature.
3. Frequency spectrum.
4. Expected range and factors affecting range.
5. Power requirements.
6. Factors relating to site placement.
7. Electronic warfare capabilities.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. Applicable Technical Manual.
2. MCWP 3-25.8.

EQPT-2012 1.0 (\*) B 1 AN/TSQ-131 L

Goal. Explain the capabilities of the AN/TSQ-131.

Requirement. Given the AN/TSQ-131 in single or dual-van configuration, identify and explain the following:

1. Configuration options.
2. Number of operating positions supported.
3. System software configuration options.
4. Nomenclature and number of the MTUs.
5. Nomenclature and number of MMDs.
6. Number of radio nets and frequency spectrum breakdown.
7. Number and types of landlines.
8. Recording capabilities.
9. Weather reporting equipment.
10. Data link capabilities.
11. Auxiliary support requirements for continuous operations.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. Applicable Technical Manual.
2. MCWP 3-25.8.

EQPT-2018 1.0 (5500) B,R 1 RATCF L

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Goal. Operate radar equipment.

Requirement. Given the required radar equipment, conduct the following:

1. Configure the ASR scope for daily operations.
2. Configure PAR for daily operations.
3. Ensure transmitter/receiver control panel(s) are functional.
4. Use intercom units to conduct a communications check.
5. Read altimeter, wind instruments, and clock information.
6. Ensure NAVAID monitors are operating properly, read indicators, and identify equipment status.
7. Navigate through different screens in the VIDS.
8. Operate the weather reporting monitor to extract information.
9. Operate the VISCOM.
10. Perform alignment checks.
11. Operate the Emergency Communications System (ECS).

Performance Standard. Complete the requirement items IAW the reference. Proper operation was demonstrated with no assistance from the instructor.

Instructor. BI.

Reference.

1. Local Directives and Publications.
2. Applicable Equipment Operators Manual.

EQPT-2019 1.0 (+) B 1 RATCF L

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Goal. Operate Radar Flight Data (RFD) equipment.

Requirement. Given the required RFD equipment, conduct the following (as applicable):

1. Use intercom units to conduct communications check.
2. Use telephones.
3. Read altimeter, wind instruments, and clock information.
4. Ensure NAVAID monitors are functioning.
5. Read NAVAID indicators and identify equipment status.
6. Navigate through different screens in the VIDS.
7. Extract information from the weather reporting monitor.
8. Operate the Emergency Communications System (ECS).
9. Operate FDIO to include:
  - a. Input flight plans.
  - b. Amend flight plans.
  - c. Weather report.
  - d. General information message.
  - e. Hold message.
  - f. Departure message.
  - g. Progress report.
  - h. ARTS force flight progress data.
  - i. Restore database.
  - j. Stereo flight plan.

- k. Input station altimeter.
- l. Remove flight plan.

Performance Standard. Complete the requirement items IAW the reference. Proper operation was demonstrated with no assistance from the instructor.

Instructor. BI.

Reference. Associated Equipment Operators Manual.

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EQPT-2025 2.0 (\*) B 1 DAGR L

Goal. Operate the AN/PSN-13A Defense Advanced GPS Receiver (DAGR).

Requirement. Given an AN/PSN-13A DAGR, a list of five waypoints, and the references:

1. Describe the purpose and use of the DAGR.
2. Describe the components of the DAGR.
3. Report current location in both latitude/longitude and MGRS coordinates.
4. Navigate to five specified waypoints.

Performance Standard. Complete the requirement items IAW the references. DAGR was programmed properly, current position was accurate and five waypoints were found without error.

Instructor. MMTI.

Reference.

1. DAGR Operator's Pocket Guide.
2. AN/PSN-13A DAGR Computer Based Trainer.
3. DAGR Technical Manual 11-5820-1172-13.

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EQPT-2026 2.0 (\*) B 1 AN/TRN-47 TACAN 1 MEP-531 L

Goal. Operate the AN/TRN-47 Tactical Air Navigation (TACAN).

Requirement. Given the AN/TRN-47 TACAN and generator:

1. Describe the purpose and use of the TACAN.
2. Identify the components and capabilities of the TACAN and generator.
3. Operate the generator.
4. Employ and calibrate the TACAN for transmission.

Performance Standard. Complete the requirement items IAW the references. The TACAN signal transmitted with no faults or error.

Instructor. BI (Navigational Aids Technician).

Reference. NAVAIR 16-30TRN47-1

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EQPT-2030 1.0 (1460) B,R 1 NVD L

Goal. Demonstrate knowledge of NVD use in an ATC environment.

Requirement. Conduct the following:

1. Understand the basic operating principles of NVGs and appreciate their capabilities and limitations.
2. Understand the affects of the night environment on NVG performance.
3. Understand how human physiology impacts NVG operations.
4. Be familiar with various misperceptions and illusions that occur when using NVGs operationally.
5. Describe the modifications required in order to make an ATC tower NVG compatible.
6. Be able to correctly preflight, adjust, and focus NVGs to provide maximum visual acuity.

Performance Standard. Conduct the requirements IAW with the reference.

Instructor. BI.

Prerequisite. Complete the ATC NITE Lab Course.

Reference. MAWTS-1 Night Vision Device Manual.

EQPT-2031 1.0 (1460) B,R 1 NVD L N

Goal. Perform ATC duties while aided.

Requirement. In an operational NVD modified control tower with the aid of a NVD:

1. Identify the position of an aircraft on movement areas using visual references.
2. Taxi multiple aircraft on the airfield movement areas.
3. Determine the position of an aircraft in flight with respects to the tower pattern, GCA pattern and position reports received from aircraft.
4. Safely, orderly and expeditiously control aircraft operating in delegated airspace.

Performance Standard. Demonstrate knowledge and proficiency to complete the requirements IAW with the reference.

Instructor. BI.

Prerequisite. 2030.

Reference. MAWTS-1 Night Vision Device Manual.

#### 2.9.5 Expeditionary (EXPD)

2.9.5.1 Purpose. To provide the MATCO with basic knowledge on the employment of the MATCD within the Marine Air Command and Control System (MACCS). It further includes familiarization of the TACC, TAOC, DASC, LAAD, and UAS operations, and applicable administrative/operational processes; and

includes significant information on the processes and administration of employing the MATCD.



Instructor. SI (MATCD Commander, MATCD SNCOIC).

Prerequisite. 3504.

Reference.

1. MCWP 3-25.8.
2. Applicable Operators Manuals.

EXPD-2102 2.0 ( \* ) B L

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Goal. Prepare, request, and supervise a flight inspection/certification for a facility or MATCD.

Requirement. During a guided discussion, after reviewing the references or through the actual completion of a flight inspection, perform or describe the following:

1. State the purpose of a flight inspection.
2. Request a flight inspection from the appropriate agency.
3. Ensure NAVAID/radar operational status.
4. Ensure development of terminal instrument procedures the NAVAID or radar supports.
5. Conduct pre/post-flight inspection briefs with designated flight inspection aircrew, if able.
6. Identify tactical flight inspection profiles associated with permissive and restrictive environments.
7. Identify the approving authority.
8. Identify the differences between a tactical and a Federal Aviation Administration (FAA) flight inspection.

Performance Standard. Complete the requirement steps IAW the references. The instructor will question and mentor the trainee throughout the discussion or execution of the event steps.

Instructor. SI (ATCFO, MATCD Commander, Radar Chief).

Reference.

1. FAA Handbook 8200.1, U.S. Standard Flight Inspection Directive.
2. NAVAIR 00-80T-114.
3. Facility Manual.

EXPD-2103 1.0 ( \* ) B L

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Goal. Prepare a Letter of Agreement (LOA)/Memorandum of Understanding (MOU).

Requirement. Given a scenario and required information, prepare an LOA and an MOU:

1. Prepare one of each and include the following for each:
  - a. Purpose.
  - b. Content.
  - c. Controlling agencies involved.
  - d. Distribution.
  - e. Applicability.
2. Explain the staffing process for each.

3. Submit one MOU and one LOA to the instructor for validation.

Performance Standard. Complete the requirement items IAW the reference. Instructor will verify that each letter was written thoroughly to support the scenario.

Instructor. SI (Branch Chief, Ops Chief, SNCOIC).

Reference.

1. SECNAVINST 5216.5D.
2. NAVAIR 00-80T-114.

EXPD-2104 2.0 (\*) B \_\_\_\_\_ L

Goal. Complete and relay a Casualty Evacuation Request.

Requirement. Given a blank Casualty Evacuation Request, the references, and scenario information:

1. State the purpose and use of a Casualty Evacuation Request.
2. Identify the information required for each line in a Casualty Evacuation Request.
3. Identify common submission procedures and methods of delivery.
4. Complete and relay the Casualty Evacuation Request information to the instructor verbally.

Performance Standard. Complete the requirement items IAW the reference. Casualty Evacuation Request must be completed with no errors.

Instructor. WTI, MMTI.

Reference.

1. MCRP 4-11.1G, Patient Movement.
2. DASC Pocket Checklist.

EXPD-2105 1.0 (\*) B \_\_\_\_\_ L

Goal. Describe and plot airspace coordinating measures on a map.

Requirement. Given and scenario, during an operation, training, or simulated exercise, identify, describe, and plot the designated air control measures (ACMs). Plot one of each of the following items on a map:

1. Base Defense Zones (BDZ).
2. Minimum Risk Routes (MRR).
3. High Density Airspace Control Zone (HIDACZ).
4. Standard Use Army Aircraft Flight Routes (SAFFR).
5. Low Level Transit Routes (LLTR).
6. Amphibious Objective Area (AOA).
7. Airspace Coordination Area (ACA).
8. Multi-Use Control Points.

Performance Standard. Complete the requirement items IAW the reference. The ACMs shall be plotted without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. MCWP 3-25.8.
2. Operational Graphics and Terms.

EXPD-2106 1.0 (\*) B \_\_\_\_\_ L

Goal. Staff a waiver request to required ATC regulations.

Requirement. Given a scenario:

1. Prepare a request for waiver to applicable ATC regulations, to include:
  - a. Purpose.
  - b. Content.
  - c. Justification.
  - d. Controlling agencies involved.
  - e. Distribution.
  - f. Applicability.
  - g. Alternate and safe procedures.
2. Staff the waiver to the instructor for validation that it was correctly completed.

Performance Standard. Complete the requirement items IAW the reference. Instructor will verify that each letter was written thoroughly to support the scenario.

Instructor. SI.

Reference.

1. SECNAVINST 5216.5D.
2. NAVAIR 00-80T-114.

EXPD-2120 1.0 (\*) B TACC 1 \_\_\_\_\_ L

Goal. Observe the configuration and operation of a Tactical Air Command Center (TACC).

Requirement. During an exercise or operation, observe an operational TACC. Understand its configuration and operational requirements.

Performance Standard. Observe the configuration and operation of a TACC during a tour.

Instructor. WTI, SI (TACC SAC).

Prerequisite. 8000.

Reference. MCWP 3-25.4, TACC Handbook.

EXPD-2121 1.0 (\*) B TAOC/EWC 1 \_\_\_\_\_ L

Goal. Observe the configuration and operation of the Tactical Air Operations Center (TAOC).

Requirement. During an exercise or operation, observe an operational TAOC. Understand its configuration and operational requirements.

Performance Standard. Observe the configuration and operation of a TAOC during a tour.

Instructor. WTI, SI (TAOC SAD).

Prerequisite. 8000.

Reference. MCWP 3-25.7, TAOC Handbook.

EXPD-2122 1.0 (\*) B DASC 1 L

Goal. Observe the configuration and operation of the Direct Air Support Center (DASC).

Requirement. During an exercise or operation, observe an operational DASC. Understand its configuration and operational requirements.

Performance Standard. Observe the configuration and operation of a DASC during a tour.

Instructor. WTI, SI (DASC SAD).

Prerequisite. 8000.

Reference. MCWP 3-25.5, DASC Handbook.

EXPD-2123 1.0 (\*) B LAAD SECT 1 L

Goal. Observe the employment and operation of a Low Altitude Air Defense (LAAD) Section, Battery, and/or Battalion.

Requirement. During an exercise or operation, observe an operational LAAD Section, Battery, and/or Battalion. Understand its configuration and operational requirements.

Performance Standard. Observe the employment and operation of a LAAD Section, Battery, and/or Battalion during a tour.

Instructor. WTI, SI, BI (LAAD Section Leader or senior).

Prerequisite. 8000.

Reference. MCWP 3-25.10, LAAD Handbook.

EXPD-2124 1.0 (\*) B UAS 1 L

Goal. Observe the configuration and operation of an Unmanned Aircraft System (UAS) site.

Requirement. During an exercise or operation, observe an operational UAS site. Understand its configuration and operational requirements.

Performance Standard. Observe the configuration and operation of an UAS site during a tour.

Instructor. WTI, JMCI

Prerequisite. 8000.

Reference. MCWP 3-42.1, UAS Handbook.

EXPD-2125 1.0 (\*) B \_\_\_\_\_ L

Goal. Understand MATCD maintenance considerations in an operational environment.

Requirement. During a guided discussion and given the reference:

1. State the coordination requirements with HHQs in order to facilitate maintenance down-time of equipment.
2. State the method for off-setting radar downtime with other radars in theater in order to facilitate a continuous MAGTF airspace surveillance picture.
3. State the impact of limited ATC systems in regards to maintenance parts replacement.

Performance Standard. Complete the requirement items IAW the references. Instructor will question and mentor the trainee throughout the discussion.

Prerequisite. None.

Instructor. SI (MATCD Commander, Maintenance Officer/Chief).

Reference. MCWP 3-25.8, MATCD Handbook.

EXPD 2135 1.0 B \_\_\_\_\_ L

Goal. Conduct a MATC Tactical crew brief.

Requirement. Prior to start of a watch shift, conduct a crew brief to include the following information:

1. Identify the duty runway.
2. Identify the expected traffic flow.
3. Identify the manning plan for the shift.
4. Identify equipment status.
5. Identify any special circumstances, operations, NOTAMS.
6. Identify air defense weapons conditions, control status.
7. Identify EMCON condition.
8. Identify security issues.

Performance Standard. Complete the requirement items IAW the references.

Instructor. SI.

Prerequisite. 2800.

Reference.

1. JO 7110.65
2. NAVAIR 00-80T-114.
3. Local Directives.

2.9.6 Communications (COMM)

2.9.6.1 Purpose. To provide the MATCO basic knowledge on the operation of MATCD communications equipment and associated COMSEC requirements. This training teaches how to utilize all communications equipment and EKMS/COMSEC protocol associated with the MATCD.

2.9.6.2 General

Total Training Events.

- (1) Live / Simulated - 06 events, 14 hours;
- (2) Simulator - 0 events, 0 hours.

COMM-2200 4.0 (1460) B,R 1 UHF/VHF/SATCOM man-pack radio L

Goal. Operate UHF/VHF/SATCOM man-pack communications equipment.

Requirement. Given an UHF/VHF/SATCOM man-pack radio and the references:

1. Describe the purpose and use of an UHF/VHF/SATCOM man-pack radio.
2. Describe the capabilities and limitations of the man-pack radio.
3. Set up radio with applicable SL3 gear.
4. Program radio and establish secure/non-secure UHF/VHF/SATCOM communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. SI (Communications Technician), MMTI.

Reference.

1. Radio Operator's Manual.
2. Harris Premier website computer-based training.

COMM-2204 2.0 (1460) B,R 1 HF man-pack radio L

Goal. Operate HF man-pack communications equipment.

Requirement. Given a HF man-pack radio and the references:

1. Describe the purpose and use of an HF man-pack radio.
2. Describe the capabilities and limitations of the radio.
3. Set up radio with applicable SL3 gear.
4. Program radio and establish secure/non-secure HF communications.
5. Demonstrate preventative maintenance procedures.
6. Set up a field-expedient antenna.

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Performance Standard. Complete the requirement items IAW the references. Communications equipment and field expedient antenna was set up and programmed accurately and a radio check was performed without error.

Prerequisite. 8576.

Instructor. BI (Communications Technician), MMTI.

Reference.

1. Radio Operator Manual.
2. Harris Premier website computer-based training.
3. MCRP 6-22, Field Antenna Handbook.

COMM-2205 2.0 (1460) B,R 1 intra-team radio L

Goal. Operate intra-team communications equipment.

Requirement. Given an intra-team radio and the references:

1. Describe the purpose and use of an intra-team radio.
2. Describe the capabilities and limitations of the radio.
3. Set up radio with applicable SL3 gear.
4. Program radio and establish secure/non-secure intra-team communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. BI (Communications Technician), MMTI.

Reference.

1. Harris AN/PRC-152 Multiband Handheld Radio Operation Manual.
2. Thales AN/PRC-148 MBITR Operation and Maintenance Instructions.

COMM-2206 2.0 (\*) B 1 ATCT L

Goal. Operate control tower communications equipment.

Requirement. While in a control tower, operate the following communications equipment:

1. Transmitter/receiver control panel(s).
2. Backup/emergency transmitter/receiver location and controls.
3. Emergency alert system.
4. Intercom units.
5. P.A. system.
6. Telephones.
7. Aldis lamp.
8. VIDS (as applicable).

Performance Standard. Complete the requirement items IAW the reference and without assistance from the instructor.

Instructor. BI.

Reference. Associated Equipment Operators Manual.

COMM-2207 2.0 (\*) B 1 RATCF L

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Goal. Operate radar communications equipment.

Requirement. While in a RATCF, operate the following communications equipment:

1. Transmitter/receiver control panel(s).
2. Backup/emergency transmitter/receiver location and controls.
3. Emergency alert system.
4. Intercom units.
5. Telephones.
6. VIDS (as applicable).

Performance Standard. Complete the requirement items IAW the reference and without assistance from the instructor.

Instructor. BI.

Reference. Associated Equipment Operators Manual.

COMM-2208 2.0 (1460) B,R 1 SKL / tactical radio L

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Goal. Operate the AN/PYQ-10 Simple Key Loader (SKL).

Requirement. Given a SKL, a tactical radio, and the references:

1. Describe the purpose and use of a SKL.
2. Identify the components of the SKL.
3. Transfer an encryption key to a tactical radio.

Performance Standard. Complete the requirement items IAW the references. Encryption Key was transmitted accurately and a secure radio check was successfully conducted without error.

Instructor. BI.

Reference. Associated Equipment Operators Manual.

## 2.9.7 Marine Air Traffic Control Mobile Team (MMT)

2.9.7.1 Purpose. To develop knowledge and abilities in MMT tactics, techniques and procedures as to accomplish the MMT mission. This stage teaches the necessary skills and knowledge to conduct expeditionary, austere air traffic control operations and familiarizes controllers with equipment organic to the MMT. Training will be conducted under the direct supervision of qualified instructors in an OJT environment.

### 2.9.7.2 General

Prerequisite. 6500.

Admin Notes. This stage contains training for the MMT Member (events are coded MMTM), and the MMT Leader (events are coded as MMTL).

Crew Requirement. A proficient 6-member MMT.

Total Training Events.

- (1) Live / Simulated - 6 events, 34 hours;
- (2) Simulator - 0 events, 0 hours.

MMTL-2300 2.0 (1460) B,R L

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Goal. Develop and issue a Five Paragraph Order.

Requirement. Given required information, develop and issue a Five Paragraph Order.

Performance Standard. Order will be complete and accurate with no errors.

Instructor. MMTI.

Prerequisite. MarineNet Course, M0070 0799, Combat Orders.

Reference. MCRP 3-11.1A, Commander's Tactical Handbook.

MMTL-2301 8.0 (1460) B,R L

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Goal. Conduct an Assault Zone Survey and Assessment.

Requirement. While at a landing zone, given a blank AF Form 3822, determine the following:

1. Required LZ coordinates.
2. Approach end, departure end and highest elevation of LZ.
4. Distances to and heights of obstructions.
5. Composition and California Bearing Ratio of the LZ.
6. Longitudinal and transverse gradients of the LZ.
7. Dimensions of the LZ.
8. LZ axis.
9. Landing threshold based on criteria and required slope ratio.
10. Complete AF Form 3822 and submit to the instructor for validation.

Performance Standard. Complete requirement items IAW the reference. Information must be accurately recorded and the form completed without error. Instructor will validate that the information supports landing zone criteria. AF Assault Zone Survey Course satisfies the event requirement.

Instructor. MMTI.

Prerequisite. Complete MAWTS-1 MMT Assault Zone Survey and Assessment Presentation.

Reference.

1. MMT TACSOP.
2. MAWTS-1 Course Catalog.
3. Engineering Technical Letter 04-7: C-130 and C-17 Landing Zone Dimensional, Marking and Lighting Criteria.

4. Engineering Technical Letter 02-19: Airfield Pavement Evaluation Standards and Procedures.

MMTI-2302      2.0      (1460)      B,R      L

Goal. Complete a Joint Tactical Airstrike Request (JTAR) form.

Requirement. Given blank JTAR forms, the references, and scenario information, conduct the following:

1. State the purpose and use of a JTAR.
2. Identify the information required for each line in a JTAR.
3. Complete one pre-planned and one immediate JTAR.
4. Verbally relay the JTAR to the instructor.

Performance Standard. Complete the requirement items IAW the reference. Each JTAR must be completed with no errors.

Instructor. WTI (DASC SAD), MMTI.

Reference. JP 3-09.3 Joint Tactics, Techniques and Procedures for Close Air Support (CAS).

MMTM-2310      6.0      (1460)      B,R      L      D/N

Goal. Conduct MMT KC-130 Landing Zone (LZ) Operations.

Requirement. Given the required equipment at a LZ or simulated LZ with a six-member MMT and the references, conduct the following during day and night conditions:

1. Establish and retrograde an Airfield Marking Pattern (AMP)-1.
2. Establish and retrograde an AMP-2.
3. Establish and retrograde an AMP-3.

Performance Standard. Complete the requirement items IAW the references. Rapidly and accurately accomplish the requirement steps while serving in at least three of the six billets associated with the establishment of a KC-130 LZ. Panels or lights were properly aligned and securely fixed to the ground without error.

Instructor. MMTI.

Prerequisite. 8570, 8571, 8573, 8574.

External Syllabus Support. One LZ capable of supporting expeditionary KC-130 operations.

Reference.

1. MMT TACSOP.
2. MAWTS-1 Course Catalog.

MMTM-2311      4.0      (1460)      B,R      L      D/N

Goal. Conduct MMT Helicopter Landing Zone (HLZ) Operations.

Requirement. Given the required equipment at an HLZ or simulated HLZ and the references, conduct the following during day and night conditions:

1. Mark the HLZ utilizing Bullet Traps.
2. Mark the HLZ utilizing an Inverted T.
3. Establish visual Initial Terminal Guidance (ITG) during night operations.

Performance Standard. Complete the requirement items IAW the references. Dimensions of the markings were accurate and the marking of the HLZ met criteria. ITG was established and easily identified from the air.

Instructor. MMTI.

Prerequisite. 8570, 8571, 8573, 8574.

External Syllabus Support. One HLZ.

Reference. MMT TACSOP.

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MMTM-2312    12.0    (1460)    B,R    L    D/N

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Goal. Conduct Small Unit Tactics associated with MMT operations.

Requirement. Given the required equipment in a field environment with a six-member MMT and a list of five MGRS locations, conduct the following during day and night conditions:

1. Complete a land navigation course.
2. Demonstrate patrolling techniques.

Performance Standard. Complete the requirement items IAW the references. Accurately locate the MGRS locations while leading a MMT on a patrol.

Instructor. MMTI.

Prerequisite. MarineNet Course M00LDN, Land Navigation.

Reference.

1. MCWP 3-11.3: Scouting and Patrolling.
2. MCRP 3-11.2A: Marine Troop Leader's Guide, Chapter 3: Fire Team.
3. FM 3-25.6: Map Reading and Land Navigation, Section 2.

## 2.9.8 Facility Watch Officer (FWO)

2.9.8.1 Purpose. To train the MATCO in the function and management of the air traffic control facility. Training includes higher level positions in the ATCF to ensure the MATCO gains an understanding of the training required to achieve higher level qualifications, and the process of training Marines in those positions. It also provides training in the radar and tower branch beyond the basic required qualifications.

### 2.9.8.2 General

Prerequisite. 2000.

Total Training Events.

- (1) Live / Simulated - 3 events, 49 hours;
- (2) Simulator - 2 events, 12 hours.

FWO 2600 24.0 (\*) B L (N/D)

Goal. Comprehend the duties and responsibilities of the Tower Local Controller (TLC).

Requirement. Complete the following IAW the reference:

1. Complete all academic training requirements in the TLC syllabus.
2. Conduct 6 hours of familiarization time, monitoring TLC.
3. Conduct 6 hours of tower simulator training.
4. Conduct 6 hours of training on TLC.

Performance Standard. Complete the requirement items IAW the references. Live training will be conducted during both day and night conditions, with at least one hour of training at night. Written exams will be close-book.

Instructor. BI.

Prerequisite. 6173.

Reference.

1. JO 7110.65
2. NAVAIR 00-80T-114.
3. Local Directives.

FWO 2700 24.0 (\*) B L (N/D)

Goal. Comprehend the duties and responsibilities of the Arrival/Departure Controller (ADC).

Requirement. Complete the following IAW the reference:

1. Complete all academic training requirements in the ADC syllabus.
2. Conduct 6 hours of familiarization time, monitoring ADC.
3. Conduct 6 hours of radar simulator training.
4. Conduct 6 hours of training on ADC.

Performance Standard. Complete the requirement items IAW the references. Live training will be conducted during both day and night conditions. Written exams will be close-book.

Instructor. BI.

Prerequisite. 6113.

Reference.

1. JO 7110.65
2. NAVAIR 00-80T-114.
3. Local Directives.

FWO 2800 1.0 (\*) B L

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Goal. Conduct a standard ATC crew brief.

Requirement. Prior to start of a standard watch shift, conduct a crew brief to include the following information:

1. Identify the duty runway.
2. Identify the expected traffic flow.
3. Identify the training to be conducted.
4. Identify the manning plan for the shift.
5. Identify equipment status.
6. Identify any special circumstances, operations, NOTAMS.

Performance Standard. Complete the requirement items IAW the references.

Instructor. SI.

Prerequisite. 2600, 2700.

Reference.

1. JO 7110.65
2. NAVAIR 00-80T-114.
3. Local Directives.

## 2.10 MISSION SKILL TRAINING (3000)

2.10.1 Purpose. This phase provides for a MATCO to achieve required proficiency on the Tower Ground Control and Radar Final Control positions and as an MMT leader in order to be eligible for recommendation for qualification; working knowledge of TERPS is also provided.

### 2.10.2 General

2.10.2.1 Prerequisite. Attain core skill proficiency for the position being trained in. A current medical clearance, valid ATCS, and SECRET security clearance.

2.10.2.2 Crew Requirement. Fully qualified/proficient crew (as appropriate).

2.10.2.3 Academic Training. Detachments/ATCFs shall develop written examinations (for event requiring testing) and practical applications to evaluate events; at a minimum, they shall encompass the event requirement and performance standard. Examinations may be developed to encompass knowledge requirement of all events in this stage or to assess each event separately.

2.10.2.4 Stages. The following stages are included in the Mission Skill Phase of Training.

PAR NO.	STAGE NAME
2.10.3	MATC MOBILE TEAM (MMT)
2.10.4	Terminal Instrument Procedures (TERPS)
2.10.5	Tower (TWR)
2.10.6	Radar (RDR)

2.10.3 Marine ATC Mobile Team (MMT)

2.10.3.1 Purpose. To train a MATCO to a required level of proficiency as an MMT leader for qualification as such. MATCO is taught the necessary skills and knowledge to conduct expeditionary, austere air traffic control operations and become familiar with equipment organic to the MMT. Training will be conducted under the direct supervision of qualified instructors in an OJT environment.

2.10.3.2 General

Prerequisite. MMTL 2300, 2301, 2302; MMTM 2310, 2311, 2312.

Crew Requirement. A proficient 6-member MMT.

Total Training Events.

- (1) Live / Simulated - 6 events, 20 hours;
- (2) Simulator - 0 events, 0 hours.

MMTL-3300 2.0 (1460) B,R L

Goal. Perform as a MMT Leader during operational planning.

Requirement. During an operation or training exercise under the supervision of a qualified MMT Leader:

1. Coordinate with S-2, S-3, S-4 and S-6 for logistics, communications, and operational requirements.
2. Develop and issue a Five Paragraph Order.
3. Coordinate and brief aircrew and adjacent units.
4. Ensure personnel and equipment readiness.
5. Conduct rehearsals with the MMT.

Performance Standard. Complete the requirement items IAW the reference. Requirements were thoroughly accomplished in support of the operational requirements.

Instructor. MMTI.

Prerequisite. 2005, 2104, 2120, 2122, 2123, 2124, 3500.

Reference. MMT TACSOP.

MMTL-3301 2.0 (1460) B,R 1 KC-130 L D/N

Goal. Perform as a MMT Leader during KC-130 Landing Zone operations.

Requirement. During an operation or training exercise, conduct the following during day and night conditions:

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1. Effectively execute movement to objective.
2. Conduct hasty LZ assessment to ensure required criteria exists.
3. Ensure LZ markings are accurately and rapidly established.
4. Ensure accurate establishment of NAVAIDS.
5. Ensure the effective establishment of the control point.
6. Ensure C2 communications are established and maintained.
7. Effect coordination with adjacent units.
8. Ensure communications with aircraft are established and maintained.
9. Ensure the LZ is sanitized and secure.
10. Ensure that LZ marking repair is accomplished as required.
11. Ensure rapid retrograde of the LZ.
12. Ensure LZ marking repair is accomplished, as required.
13. Ensure the team maintains a tactical posture with regard to noise and light discipline.

Performance Standard. Complete the requirement items IAW the reference. Requirements were thoroughly accomplished in support of the operational requirements.

Instructor. MMTI.

Prerequisite. 3300.

Reference. MMT TACSOP.

MMTL-3302	2.0	(1460)	B,R	1 FARP	L	D/N
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Goal. Perform as a MMT Leader during HLZ FARP operations.

Requirement. During an operation or training exercise, conduct the following during day and night conditions:

1. Effectively execute movement to objective.
2. Ensure establishment of separation procedures for the FARP, to include:
  - a. Entry points.
  - b. Exit points.
  - c. Altitude de-confliction procedures.
  - d. Waveoff procedures.
  - e. Lost communication procedures.
3. Establish and maintain integration with the FARP OIC and/or Aircraft Commander.
4. Ensure C2 communications are established and maintained.
5. Effect coordination with adjacent units.
6. Ensure communications with aircraft are established and maintained.
7. Ensure accurate establishment of NAVAIDS, as applicable.

Performance Standard. Complete the requirement items IAW the reference with minimal assistance from a qualified MMT Leader. Requirements were accomplished thoroughly and in support of operational requirements.

Instructor. MMTI.

Prerequisite. 3300.

External Syllabus Support. MWSS FARP.

Reference. MMT TACSOP.

MMTM-3310 2.0 (1460) B,R L

Goal. Perform as a MMT Member during operational planning.

Requirement. Given an Operations Order (OPORD) during an operation or training exercise under the supervision of a qualified MMT Leader:

1. Prepare and account for team and individual equipment.
2. Conduct operational checks.
3. Program communication equipment.
4. State the team mission and describe individual assignments as they pertain to the mission.
5. Successfully complete all tasks assigned by the team leader.

Performance Standard. Complete the requirement items proficiently, IAW the reference and with no errors.

Instructor. MMTI.

Prerequisite. 2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031.

Reference. MMT TACSOP.

MMTM-3311 6.0 (1460) B,R 1 KC-130 L D/N

Goal. Perform as a MMT Member during KC-130 Landing Zone operations.

Requirement. During an operation or training exercise, demonstrate the following under day and night conditions:

1. Establish LZ markings.
2. Establish NAVAID.
3. Establish C2 communications.
4. Establish two-way communications with aircraft.
5. Sanitize and secure LZ.
6. Conduct LZ marking and repair, as required.
7. Conduct a retrograde of the LZ.
8. Throughout the evolution, display a tactical posture in regards to noise and light discipline.

Performance Standard. Complete the requirement items proficiently, IAW the reference and with no errors.

Instructor. MMTI.

Prerequisite. 3310.

Reference. MMT TACSOP.

MMTM-3312 6.0 (1460) B,R 1 FARP L D/N

Goal. Perform as a MMT Member during HLZ FARP operations.

Requirement. During an operation or training exercise, demonstrate the following under day and night conditions:

1. Establish a control point that offers the best visibility of the HLZ while incorporating integration with the FARP OIC and/or Aircraft Commander.
2. Establish NAVAID.
3. Establish C2 communications.
4. Establish two-way communications with aircraft.
5. Sanitize and secure HLZ.

Performance Standard. Complete the requirement items proficiently, IAW the reference and with no errors.

Instructor. MMTI.

Prerequisite. 3310.

Reference. MMT TACSOP.

#### 2.10.4 Terminal Instrument Procedures (TERPS)

2.10.4.1 Purpose. To provide the MATCO with a functional understanding of the TERPS process and requirements. It encompasses training events that are required for the knowledge and skills to support the terminal instrument procedures specialist in the air traffic control facility or while deployed with a detachment.

#### 2.10.4.2 General

Admin Notes. The events in this stage are the same as in the enlisted TERPS stage. This ensures that the MATCO has the same background understanding that the TERPS specialist will have, but does not take the MATCO through the full process of building approaches.

Academic Training. Facilities and detachments shall develop written examinations for events requiring testing. Exams, at a minimum, shall encompass the event requirement and standard and include the use of the references listed. Facilities and detachments shall develop scenarios that provide practical application to support the training requirements of this manual.

#### Total Training Events.

- (1) Live / Simulated - 06 events, 22 hours;
- (2) Simulator - 0 events, 0 hours.

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TERPS-3500	2.0	(*)	B	L
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Goal. Identify the organizations that support the development, approval and inspection of instrument procedures.

Requirement. Describe the roles of the organizations involved in instrument procedures to include:

1. MATCD.
2. MCI ATC T&R Office.



Performance Standard. Pass an open-book written examination with a minimum score of 80%.

Instructor. TERPSI.

Reference.

1. NAVAIR 00-80T-114.
2. OPNAVINST 3722.16.
3. FAAO 8260.19.

TERPS-3503      4.0      (\*)      B      L

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Goal. Describe the general requirements for submission and approval of terminal instrument procedures.

Requirement. Identify the requirements for submission and approval of instrument procedures while considering:

1. Aeronautical charting requirements.
2. Environmental impact.
3. NAVAID/facility utilization and monitoring.
4. Implementation of Epoch Year Magnetic Variation.
5. Quality/Standardization of instrument flight procedures.
6. Navigational fixes.
7. Periodic review requirements of instrument procedures.
8. Obstacle data and accuracy requirements.
9. Waivers of standards.
10. Designations of controlled airspace.
11. Construction of military procedures.
12. Form use and preparation.
13. Certification, processing and review.
14. Requirements for airfield marking/lighting.

Performance Standard. Pass an open-book written examination with a minimum score of 80%.

Instructor. TERPSI.

Reference.

1. NAVAIR 00-80T-114.
2. OPNAVINST 3722.16.
3. FAAO 8260.19.
4. NAVAIR 51-50-AAA-2.

TERPS-3504      4.0      (\*)      B      L

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Goal. Compile the necessary airport information to develop instrument procedures.

Requirement. Identify and compile airport data required for the development of precision and non-precision terminal instrument procedures, to include:

1. Airport information:
  - a. Airport ID and location.
  - b. Airport reference point (ARP) (WGS-84).
  - c. Airport elevation (EGM-96).

- d. Airport magnetic variation of record.
- e. Local datum in use.
2. For each landing surface, provide at a minimum:
  - a. Runway end latitude/longitudes (WGS-84).
  - b. Runway end elevations (EGM-96).
  - c. Displaced threshold latitude/longitudes, if applicable (WGS84).
  - d. Displaced threshold elevations, if applicable (EGM-96).
  - e. Runway length/width.
  - f. Runway heading (true/magnetic).
  - g. Runway surface.
  - h. Runway lighting and approach lighting.
  - i. Runway markings.
  - j. Runway profile elevations (EGM-96 or z values).
  - k. Touchdown zone elevations (EGM-96 or z values).
  - l. Visual glideslope indicator coordinates (WGS-84 or x/y values).
3. For each NAVAID/RADAR, provide at a minimum:
  - a. Latitude/longitude (WGS-84 or x/y value).
  - b. Ground elevation (EGM-96 or z value).
  - c. Antenna elevation (EGM-96 or z value).
4. For precision approach RADARs, provide:
  - a. PAR Touchdown Point (TDP)/Runway Point of Intercept (RPI). coordinates (WGS-84 or x value).
  - b. TDP/RPI Elevation (EGM-96 or z value).
5. Prominent obstacles within 5 NM of the ARP.
  - a. Coordinates (WGS-84).
  - b. MSL Elevations (EGM-96).
  - c. Accuracy code for survey.

Performance Standard. Given a location, provide all required data at required accuracy necessary to develop instrument procedures.

Instructor. TERPSI.

Prerequisite. 3500, 3501, 3502, 3503.

Reference.

1. NAVAIR 00-80T-114.
2. NAVAIR 00-80T-115.
3. OPNAVINST 3722.16.
4. FAAO 8260.19.
5. NAVAIR 51-50-AAA-2.

TERPS-3505      8.0      (\*)      B      L

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Goal. Explain general TERPS criteria that can be applied to the development of all instrument procedures.

Requirement. Describe general TERPS criteria to include:

1. Minimum Sector Altitudes.
2. Transitions from the En Route Environment.
3. Criteria for segments of an instrument approach, to include:
  - a. Initial approach.
  - b. Intermediate approach.
  - c. Final approach.
  - d. Visual area.
  - e. Missed approach.



TGC-3620 1.0 (5500) B L

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Goal. Perform the duties of a Tower Ground Controller (TGC).

Requirement. In a control tower, perform the duties and responsibilities of a tower ground controller.

Performance Standard. Demonstrate proficiency required to be recommended for qualification TGC.

Prerequisite. 2000, 2003, 2004, 2206, 8520, 8522, 8523, 8524, 8525, 8527, 8528.

Instructor. BI

Reference.

1. NAVAIR 00-80T-114.
2. JO 7110.65.
3. Local Directives and Publications.

#### 2.10.6 Radar (RDR)

2.10.6.1 Purpose. To train a MATCO to a required level of proficiency on the Radar Flight Data and Radar Final Control positions for qualification in those positions.

#### 2.10.6.2 General

Admin Note. This stage consists of RDR codes specific to the position being trained to in radar. For MATCOs these codes include:

- (1) Radar Flight Data (RFD)
- (2) Radar Final Controller (RFC)

Total Training Events.

- (1) Live / Simulated - 2 events, 2 hours;
- (2) Simulator - 0 events, 0 hours.

RFD-3700 1.0 (5500) B L

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Goal. Perform the duties of Radar Flight Data.

Requirement. In a radar environment, perform the duties and responsibilities of a Radar Flight Data (RFD) Controller.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a RFD.

Instructor. BI.

Prerequisite. 2000, 2207, 2019, 8520, 8521, 8522, 8523, 8532, 8534, 8538.

Reference.

1. NAVAIR 00-80T-114.
2. JO 7110.65.
3. Local Directives and Publications.

RFC-3710 1.0 (5500) B L

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Goal. Perform the duties of a Radar Final Controller (RFC).

Requirement. In a radar environment, utilizing simulated or live training, perform the duties and responsibilities of an expeditionary RFC.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a RFC.

Prerequisite. 2000, 2207, 2018, 8520, 8532, 8533, 8534.

Instructor. BI.

Reference.

1. NAVAIR 00-80T-114.
2. JO 7110.65.
3. Local Directives.

## 2.11 CORE PLUS TRAINING (4000)

2.11.1 Purpose. This phase contains training standards that have a low probability of execution, or are specific to geographic areas. These events may be deemed necessary by individual commanders, based on mission requirements.

### 2.11.2 General

2.11.1 Prerequisite. 6173, 6113, 6500

2.11.2 Crew Requirement. Fully qualified/proficient crew (as appropriate).

2.11.3 Academic Training. Detachments/ATCFs shall develop written examinations (for event requiring testing) and practical applications to evaluate events; at a minimum, they shall encompass the event requirement and performance standard. Examinations may be developed to encompass knowledge requirement of all events in this stage or to assess each event separately.

2.11.4 Stages. The following stages are included in the Core Plus Sill Phase of training.

PAR NO.	STAGE NAME
2.11.5	Expeditionary (EXPD)
2.11.6	Communication (COMM)
2.11.7	Command and Control Systems (CZSYS)

### 2.11.5 Expeditionary (EXPD)

2.11.5.1 Purpose. To train the MATCO on the employment of the MATCD in an expeditionary environment.

#### 2.11.5.2 General

Prerequisite. None.

Total Training Events.

- (1) Live / Simulated - 9 events, 129 hours;
- (2) Simulator - 0 events, 0 hours.

EXPD-4000 1.0 (\*) B \_\_\_\_\_ L

Goal. Perform as a MATC Liaison Officer.

Requirement. Given an exercise or operation:

1. Provide liaison between the MATCD, adjacent military C2 agencies, host nation ATC, and aviation units.
2. Explain to the instructor MATC responsibilities and relationships to other MACCS or ATC agencies (military/civilian).

Performance Standard. Perform MATC liaison duties during a MACCS exercise, operation, or SIMEX. Instructor shall ensure the explanation provided is IAW applicable directives and documents. Instructor will question and mentor the trainee throughout the evolution.

Prerequisite. 6500.

External Syllabus Support. Operational MACCS and/or other ATC agencies.

Instructor. WTI.

EXPD-4001 1.0 (\*) B \_\_\_\_\_ L

Goal. Conduct MATCD operations in a CBRN environment.

Requirement. In a simulated CBRN environment, while in MOPP IV, perform MATC functions while operating MATCD equipment.

Performance Standard. While in MOPP IV, provide for the safe, orderly, and expeditious movement of air traffic, in either a radar or tower environment.

Instructor. SI.

External Syllabus Support. Voice amplifier.

EXPD-4002 80.0 (\*) B \_\_\_\_\_ L

Goal. Conduct an ATC timeshare.

Requirement. Given general guidance, plan, coordinate, and execute an ATC timeshare to include:

1. Research a site location for unit / equipment employment.
2. Conduct a site survey for gear emplacement and TERPS data.
3. Forward the results of the site survey to NAVFIG for the development of procedures, to include a flight inspection.
4. Develop a Letter of Agreement (LOA) or procedure between the

- MATCD and adjacent ATC / airspace control agencies.
5. Request required frequencies for all detachment equipment.
  6. Identify maintenance / logistics requirements and request external support, as required.
  7. Identify crew composition / currency requirements.
  8. Supervise the embarkation, movement, and employment of the equipment.
  9. Supervise the flight inspection.
  10. Supervise the conduct of the timeshare.
  11. Supervise the retrograde of the equipment.

Performance Standard. Complete the requirements IAW the reference. Instructor will question and mentor the trainee throughout the evolution.

Instructor. SI, WTI.

Prerequisite. 6500.

Reference.

1. NAVAIR 00-80T-114.
2. OPNAVINST 3722.16.
3. FAAO 8260.19.
4. MCWP 3-25.8.

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EXPD-4003    8.0    (\*)    B    L

Goal. Conduct Base Defense Zone operations.

Requirement. During a field exercise, and given a tactical scenario, plan and employ a BDZ:

1. Identify the threat.
2. Identify the LAAD Capabilities available.
3. Identify air defense priorities.
4. Identify the ID criteria, responsibilities and authorities.
5. Identify the rules of engagement.
6. Coordinate employment with adjacent MACCS agencies.
7. Identify entry and exit procedures.
8. Identify communication procedures with LAAD representative.

Performance Standard. Complete the requirements IAW the reference. Instructor will question and mentor the trainee throughout the evolution.

Instructor. WTI.

Prerequisite. 8720, 8722.

External Syllabus Support. LAAD Section.

Reference.

1. MAWTS-1 BDZ class
2. MCWP 3-25.8.

EXPD-4004 4.0 (\*) B \_\_\_\_\_ L

Goal. Conduct launch and recovery operations in EMCON conditions.

Requirement. During a field exercise, and given a tactical scenario, plan and conduct launch and recovery operations in EMCON conditions:

1. Identify the threat.
2. Identify the EMCON conditions in effect.
3. Identify approval authority for changes to the EMCON condition.
4. Conduct planning with aviators to identify alternate means of communication to effect safe flow of traffic.
5. Identify circumstances that require the breaking of EMCON.

Performance Standard. Complete the requirements IAW the reference. Instructor will question and mentor the trainee throughout the evolution.

Instructor. WTI.

Prerequisite. 8601.

Reference.

1. MCWP 3-25.8.

EXPD-4012 24.0 (\*) B \_\_\_\_\_ L

Goal. Plan and conduct rear area operations.

Requirement. Given a tactical scenario, plan and employ rear area operations to include:

1. Security.
2. Communications.
3. Sustainment.
4. Develop a brief containing addressing the above three items as they apply to the scenario.
5. Brief the instructor and the detachment commander

Performance Standard. With the aid of reference, conduct the requirement items. Instructor shall ensure all briefing items are thoroughly explained in a comprehensive and clear manner.

Instructor. SI, WTI, External (TTECG).

Reference.

1. MCRP 3-41.1A
2. MCWP 3-34.1

EXPD-4013 12.0 (\*) B \_\_\_\_\_ L

Goal. Plan, brief and execute convoy operations.

Requirement. Given a tactical scenario, plan and execute convoy operations to include:

1. Roles and responsibilities.

2. Convoy configuration.
3. Vehicle configuration.
4. Communications.
5. Route selection.
6. Improvised Explosive Device (IED) detection.
7. Departing friendly lines.
8. Formations and techniques.
9. Danger areas.
10. Immediate action drills.
11. Re-entering friendly lines.
12. Escort and aviation support.

Performance Standard. With the aid of reference, conduct the requirement items.

Instructor. SI, WTI, External (TTECG)

Reference. MCRP 4-11.3H

#### 2.11.6 Communications (COMM)

2.11.6.1 Purpose. To train the MATCO on the operation of MATCD communications equipment and associated COMSEC requirements. The MATCO obtains the required knowledge and skills to utilize all communications equipment and EKMS/COMSEC protocol associated with the MATCD.

#### 2.11.6.2 General

Prerequisite. None.

Total Training Events.

- (1) Live / Simulated - 3 events, 6 hours;
- (2) Simulator - 0 events, 0 hours.

COMM-4015 2.0 (\*) B L

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Goal. Describe proper handling and storage of classified materials.

Requirement. Given the references:

1. State the different levels of classification.
2. State the marking requirements for each level of classification.
3. State the Two-Person Integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.
7. Identify the approved security containers utilized for storage.
8. Identify the procedures for handling Controlled Cryptographic Items (CCI).

Performance Standard. State the above requirement items without error.

Instructor. SI (Security Manager).

Reference.

1. MCO P5510.18.
2. EKMS-1.

3. Unit EKMS SOP.
4. SECNAVINST 5510.36.

COMM-4016 2.0 (\*) B L

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Goal. Ensure physical security of classified areas.

Requirement. Given a scenario and references, illustrate personnel and equipment security procedures.

1. Create guard schedule.
2. Single entry control point.
3. Verify personnel on Access Roster.
4. Triple Strand Concertina Wire.
5. Entry points of communication lines.
6. Submit a physical security diagram.

Performance Standard. Draw a diagram depicting the information listed in the requirement section. Instructor will validate that the diagram supports the scenario.

Instructor. SI (Security Manager).

Reference. MCO P5530.14.

COMM-4017 2.0 (\*) B L

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Goal. Extract key material information from EKMS COMSEC callout.

Requirement. Given an EKMS COMSEC callout and references:

1. State the purpose of the EKMS COMSEC callout.
2. Identify the four main pieces of key information:
  - a. Short Title.
  - b. Edition.
  - c. Segment.
  - d. Classification.
  - e. Supersession date.
3. Identify segment roll over dates and time.

Performance Standard. With local SOP and EKMS COMSEC callout, state the purpose and identify the key information on the callout with 100% accuracy.

Instructor. SI (EKMS Manager).

Prerequisite. 4015.

Reference.

1. EKMS-1A.
2. COMSEC Callout.

#### 2.11.7 Command and Control Systems (C2SYS)

2.11.7.1 Purpose. To provide MATC personnel the knowledge and skills required to operate Command and Control systems employed within the Marine Corps.

2.11.7.2 General

Prerequisite. MARINENET Courses as indicated within the C2SYS events or the virtual MISTC POIs for the associated C2 system.

Admin Notes Command and control system events are located in the MAWTS-1 C3 Course Catalog (reference (b)) in order to maintain standardized training across the MACCS. Specific event for MATC are listed in the chart below. C2SYS training is offered by MISTCs or provided during MISTEX, MEFEX, or other Wing TEEP events.

Refresher Training. Due to the highly perishable nature of command and control systems (C2SYS) skills, these events are required to be refreshed every 182 days (6 months) to remain current.

Total Training Events.

- (1) Live / Simulated - 11 events, 24.5 hours;
- (2) Simulator - 00 events, 00 hours.

EVENT CODE	SKILL
C2SYS-4901	Access TBMCs Online Master Help Index
C2SYS-4902	Utilize the TBMCs Alerts Service Web Apps
C2SYS-4903	Use TBMCs Map Manager
C2SYS-4904	Use TBMCs Web Mapping
C2SYS-4905	Utilize the Air Tasking Order Airspace Control Order Tool (AATWEB)
C2SYS-4906	Use the Web Based Airspace Deconfliction Software (WEBAD)
C2SYS-4910	Use the Execution Status and Monitoring Tool (ESTAT)
C2SYS-4913	Import an airspace group
C2SYS-4921	Operate Command and Control personal computer (C2PC)
C2SYS-4922	Operate Blue Force Tracker (BFT) equipment
C2SYS-4940	Set up and establish communications utilizing an IRC network

2.12 INSTRUCTOR UNDER TRAINING (IUT) (5000)

2.12.1 Purpose. To provide position qualified personnel the additional skills necessary to instruct, evaluate and recommend for completion / qualification "trainees" within a crew. Upon completion of the required training, an individual may be considered for instructor designation by the commanding officer, detachment commander, facility officer, or direct representative, as applicable.

2.12.2 General

2.12.2.1 Admin Notes

(1) The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to the concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

(2) There are five instructor designations in this syllabus. The intent is to train individuals with different levels of experience to instruct air traffic control personnel. Instructor experience is also gained while progressing through the different instructor designations. The MAWTS-1 C-3 course catalog contains the training requirements for instructors common across the MACCS: Basic Instructor (BI), Senior Instructor (SI), and Weapons and Tactics Instructor (WTI). The catalog is located at the MAWTS-1 website, <https://www.intranet.tecom.usmc.mil/sites/mawts1/default.aspx>.

(3) ATC specific instructors are listed below.

(a) On-the-Job-Training Instructor (OJTI).

(1) An ATC facility OJTI must complete BI events 5000-5020 (see C3 Course Catalog) before the OJTI can train events in the MATC T&R.

(2) Deployed ATC detachments/ATC facilities shall develop an OJTI course to comply with the NAVAIR 00-08T-114 Air Traffic Control NATOPS Manual, chapter 8 for control position training. Once the OJTI training has been completed, the BI shall be recommended in writing by the Branch Supervisor.

(3) ATC personnel must have been qualified on the position or skill for a minimum of 90 days prior to being allowed to instruct trainees on that position.

(b) SIs at ATCFs.

(1) SIs assigned to ATCFs will serve as primary assistants to the facility training chief.

(2) Before SI training can begin, the IUT must be qualified on all positions within the tower or radar branch, as applicable; and be designated the CTO examiner, designated alternate or Tower Chief for tower positions; or the ATCS Examiner, designated alternate or Radar Chief for radar positions.

(3) An ATC facility CTO Examiner, Tower Chief, ATCS Examiner, Radar Chief or designated alternates with ATC position qualification authority who complete the SI training requirements are equivalent to a SI. ATC personnel shall be recommended for SI training by another SI who shall train and recommend the trainee for designation.

(c) Marine ATC Mobile Team Instructor (MMTI). Graduates of the MAWTS-1 MMT Instructor's Course are certified to be a MMTI. The commanding officer or direct representative designates MMT Instructor's Course graduates as MMTIs.

(d) TERPS Instructor (TERPSI). Personnel who are qualified in TERPS and have been designated a BI are eligible for designation as TERPSI.

c. The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

INSTRUCTOR	Event Training, Evaluation and Approval
BI	Train, evaluate and approve as complete all Core Skill event(s) for which the BI is current and proficient. For position qualifications in the facility, the BI can recommend the trainee for evaluation by the appropriate SI.
SI	Train, evaluate and approve as complete all Core Skill and Mission Skill events for which the SI is current and proficient. The SI must ensure that each recommendation for qualification is seen through to completion, including the updating of M-SHARP and PR. If the position evaluation is conducted by a civilian, the SI ensures that it is to standard, and completed in M-SHARP and PR.
MMTI	Train, evaluate and approve as complete Core and Mission Skill MMT events in which MMTI is current and proficient, to include MMTM and MMTL events.
TERPSI	Train, evaluate and approve as complete in Core and mission skill TERPS events in which TERPSI is current and proficient.
WTI	Train, evaluate and approve as complete all Mission Skill and Qualification events for which qualified and current.  WTI: - Evaluate and recommend for qualification - Endorse recommendations for position designations
Notes	1. Detachment Commanders/Facility Officers are the approving authority for qualifications and designations of all position qualifications; and for designation of the BI, and SI, as applicable.  2. Commanding Officers are the approving authority for all unit combat leadership, MMTI, TERPSI, and WTI designations.

2.12.2.2 Stages. The following stages are included in the Instructor Under Training Phase of training.

PAR NO.	STAGE NAME
2.12.3	BASIC INSTRUCTOR (BI)
2.12.4	SENIOR INSTRUCTOR (SI)

2.12.3 Basic Instructor (BI)

2.12.3.1 Purpose. To provide personnel the skills necessary to effectively plan for, instruct, evaluate and document individual T&R event training. This includes all events for which proficient and current that correspond to the position in which qualified, that identify a BI as the instructor.

2.12.3.2 General

Prerequisite. A basic instructor under training (BIUT) shall be qualified and current in the events that correspond to the position in which instructing.

Total Training Events. 4 events, 5.0 hours.

IUT-5000 2.0 (\*) B L

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Goal. Introduce principles of instruction.

Requirement. Given the reference, the BIUT will demonstrate the following with the assistance of a unit instructor:

1. Introduce/discuss/demonstrate instruction techniques.
2. Introduce/discuss/demonstrate class management techniques.
  - a. How to use class resources to communicate with the student.
  - b. How to properly organize the class for effective instruction.
3. Introduce/discuss/demonstrate how to prepare for a period of instruction.
  - a. Schedule the class.
  - b. Prepare/access the training materials for the class.
  - c. Prepare the evaluation form to be used to evaluate the students event performance, as applicable.

Performance Standard.

1. The instructor will assess the BIUT's understanding of the principles of instruction verbally.
2. The BIUT will answer the questions with enough detail to demonstrate event required knowledge.
3. The BIUT will physically demonstrate proper instruction and classroom techniques.
4. The BIUT will demonstrate how to schedule and prepare to instruct an event.

Instructor. SI, WTI

Reference. NAVMC 3500.14

IUT-5010 1.0 (\*) B L

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Goal. Understand the structure of an event.

Requirement. Using the community T&R manual, discuss the following with an instructor:

1. State the purpose of a T&R event.
2. Describe the structure of a T&R event and explain the purpose and content for each event section.
3. Using the given event, explain each section as it pertains to the event.
  - a. Explain the purpose and content of the goal.
  - b. Explain the requirement condition and performance steps for the event and what needs to be done to prepare to instruct the event.
  - c. Explain how the event performance standard is measured and when the event has been completed.
  - d. State who can instruct the event.

- e. State the event prerequisite and how to verify that it was completed.
- f. Explain how the external syllabus support requirement will be resourced.
- g. State the references required and how each would be used to train the event.

Performance Standard. Without the aid of references and during a discussion session, the BIUT shall demonstrate an understanding of the structure of T&R events. During this session, the instructor shall discuss the event content and question the student throughout the training session to ensure understanding.

Instructor. SI, WTI

Reference. NAVMC 3500.14

IUT-5020      2.0      (\*)      B      L

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Goal. Conduct a period of instruction on a T&R event.

Requirement. The BIUT, under the supervision of an instructor, will learn how to conduct a period of instruction on an event selected by the instructor. The event must be one the BIUT is current and proficient in. The BIUT will be able to:

1. State the instructor responsibilities.
2. Define the purpose and content of a T&R event per the aviation T&R program manual.
3. Prepare to train the event.
  - a. Review the trainee's PR to identify required training for the event selected.
  - b. Ensure the student has met prerequisites for the event to be trained.
  - c. Develop a student training plan to ensure progression per this manual.
  - d. Schedule the training event (facilities and students).
  - e. Gather the resources necessary to conduct the training (instructional materials, references and equipment).
  - f. Prepare an evaluation form for each student to be evaluated.
4. Conduct training on the event selected:
  - a. Ensure all training resources are properly staged/equipment if set up properly for training.
  - b. Instruct the student in a thorough manner so as to cover all requirements for the event.
  - c. Ensure continuous, objective assessment of the students' progress during training.
5. Assess student performance:
  - a. Assess the students' performance to the performance standard.
  - b. Correct student deficiencies in a timely manner and provide the student feedback.
  - c. Complete the evaluation form for each student trained.
  - d. Debrief students on their performance and provide corrective action.
6. Route evaluation form, as required.

Performance Standard. Complete the requirement items IAW the reference. Instructor shall question the BIUT to check for understanding of the BI responsibilities.

Instructor. SI, WTI

Prerequisite. 5000, 5010

Reference. NAVMC 3500.14

#### 2.12.4 Senior Instructor (SI)

2.12.4.1 Purpose. To provide the individual with the skills necessary to understand the aviation T&R program structure and content, explain in detail the officer and enlisted T&R progression model from event training to qualification and designation. Describe the various elements of the T&R system and learn how to review Core Model Minimum Requirements (CMMR) and compare to Core Model Training Report to be able to explain unite training deficiencies and provide training recommendations to meet CMMR.

#### 2.12.4.2 General

##### Prerequisites

(1) Complete the Systems Approach to Training (SAT) MarineNet Course UT01AO.

(2) Complete the BI events in this manual, 5000, 5010, 5020

(3) A SI shall be qualified and proficient in the events in which instructing.

Administrative Notes. Individuals shall be recommended for SI training and designation by an SI or WTI. The commanding officer will designate the SI in writing.

Total Training Events. 5 events, 8.0 hours.

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IUT-5100      2.0      (\*)      B      L

Goal. Understand the Aviation Training and Readiness (T&R) Program.

Requirement. Using the T&R Program Manual and community T&R manual, discuss the following with an instructor:

1. State T&R policies as they apply to the community.
2. State the purpose and use of the Core Model.
  - a. List all essential elements that make up the model.
  - b. Define each element.
3. Define and explain the purpose for the following:
  - a. Core skills (How to attain and maintain).
  - b. Mission skills (How to attain and maintain).
  - c. Combat Leadership.
  - d. Instructors.
  - e. Certification.
  - f. Qualification.
  - g. Designation.

- h. Core Mission Essential Task List (METL).
  - i. Core Model Minimum Requirements (CMMR).
  - j. Core Model Training Report (CMTR).
  - k. TEEP.
  - l. Individual Performance Record (PR)
4. Understand how to analyze the CMTR to determine training deficiencies and how to achieve CMMR (Chpt 7).
  5. Understand the structure of the T&R community manual to include the chapter and individual MOS chapter (Chpt 6).
  6. Explain how to submit changes to the Program Manual (Chpt 5).
  7. Explain T&R conference procedures (Chpt 5).

Performance Standard. Complete the requirement IAW the reference. Instructor will question the IUT to check for thorough understanding of the Aviation T&R program.

Instructor. SI, WTI

Reference. NAVMC 3500.14, MATC T&R manual

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IUT-5110      2.0      (\*)      B      L

Goal. Understand the applicable community T&R program.

Requirement. State or explain the following:

1. State the mission and Core METL for the community.
2. State the standards of each core MET in the core METL.
  - a. Personnel.
  - b. Equipment.
  - c. Training.
  - d. External support.
  - e. Output standard.
3. State the unit CMMR requirement and how it applies to each crew.
4. Explain the training progression model for officers and enlisted as it applies to each position.
5. Explain the requirements to achieve:
  - a. Each core skill.
  - b. Each mission skill.
  - c. Each certification.
  - d. Each qualification.
  - e. Each designation.
    - (1) Combat leadership requirements
    - (2) Instructors

Performance Standard. Complete the requirement IAW the reference. Instructor will question the IUT to check for thorough understanding of the community T&R program.

Prerequisite. 5100

Instructor. SI, WTI

Reference.

1. NAVMC 3500.14.
2. MATC T&R Manual.

IUT-5120      2.0      (\*)      B      L

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Goal. Understand T&R administration.

Requirement. Explain how unit training is administered, to include:

1. Scheduling and conducting event training.
2. Completing an evaluation form.
3. Recommending and approving qualifications and designations.
4. Describing the process for documenting training.
  - a. Evaluation forms
  - b. Qualification and Designation letters.
  - c. Individual Performance Record.
  - d. MSHARP.

Performance Standard. Explain the requirement items IAW the reference. Instructor shall question the IUT to check for understanding of the administration process.

Instructor. SI, WTI

Prerequisite. 5100, 5110

Reference.

1. NAVMC 3500.14
2. Local WTPP SOP
3. <http://msharpsupport.com>

IUT-5130      2.0      (\*)      B      L

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Goal. Develop a training plan.

Requirement. Given a deployment scenario, determine individual and crew training needed to meet crew manning requirements by developing a training plan that:

1. Identifies and schedules T&R training opportunities to achieve requirements.
2. Determines instructors required.
3. Determines equipment required.
4. Determines external support required.
5. Includes a written and presented brief to the instructor that shows:
  - a. Crew manning and training requirements.
  - b. Current training status.
  - c. Identifies the training deficiencies and resource shortfalls.
  - d. Explains the training plan to correct the training deficiencies.

Performance standard. Complete the requirement items IAW the reference. The training brief addresses all the requirement items and supports the given scenario. The instructor shall question and mentor the IUT throughout the training session to ensure a clear understanding of the CMMR requirements.

Prerequisites. 5100, 5110, 5120.

Instructor. .SI, WTI.

Reference.

1. NAVMC 3500.14.
2. MATC T&R Manual.

2.13 REQUIREMENTS, QUALIFICATIONS, DESIGNATIONS, AND CERTIFICATIONS (6000)

2.13.1 Purpose. The phase provides for community standardization of MATCO qualification, combat leadership and instructor designations.

2.13.2 General

2.13.2.1 Admin Notes

(1) The WTPP, or designated individual shall review the PR to ensure all required training, documentation and administrative actions have been completed prior to staffing qualifications or designation recommendations for approval.

(2) Only once an individual is qualified, certified, or designated in writing, the signed letter is filed in the PR, and all administrative actions are completed, and the event code has been logged in M-SHARP will the qualification or designation be effective.

2.13.2.2 Prerequisite. Per the applicable POI.

2.13.2.3 Stages.

PAR NO.	STAGE NAME
2.13.3	Qualifications (QUAL)
2.13.4	Designations (DESG)
2.13.5	Certifications (CERT)

2.13.3 Qualifications

2.13.3.1 Purpose. To evaluate MATCOs on their ability to perform proficiently in the following positions: TFD, TGC, RFD, RFC, MMTM and MMTL.

2.13.3.2 General

Prerequisite. Completion of the (3000) mission skill events required to be eligible to be recommended for qualification on the position being trained.

Admin Notes

(1) During evaluation of the event performance standard, the instructor may provide minimal guidance. However, the instructor should guide and mentor the trainee during the training session and after an event evaluation.

(2) Personnel being recommended for qualification must perform the evaluation event to a proficient level. A proficient level is defined as the ability to efficiently and skillfully correct errors without hesitation and with minimal input from the Instructor.

(3) Policy on attaining, maintaining and regaining a qualification is contained in chapter 2 of reference (a).

Crew Requirement. A proficient crew, as needed.

Qualifications

Radar Flight Data Controller (RFD)  
Radar Final Controller (RFC)  
Tower Flight Data Controller (TFD)  
Tower Ground Controller (TGC)  
MATC Mobile Team Member (MMTM)  
MATC Mobile Team Leader (MMTL)

QUAL 6103 1.0 (5500) B, R L

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Goal. Qualify as Radar Flight Data Controller (RFD).

Requirement. Perform the duties and responsibilities of a RFD IAW the reference.

Performance Standard. Demonstrate the duties of RFD to a level of proficiency expected of a qualified RFD under general supervision.

Instructor. SI (Radar Chief).

Prerequisite. 3700.

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. Local directives.

QUAL 6113 1.0 (5500) B, R L

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Goal. Qualify as a Radar Final Controller (RFC).

Requirement. Perform the duties and responsibilities of a RFC IAW the reference.

Performance Standard. Demonstrate the duties of a RFC to a level of proficiency expected of a qualified RFC under general supervision.

Instructor. SI (Radar Chief).

Prerequisite. 3710.

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. Local directives.

QUAL 6153 1.0 (5500) B, R L

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Goal. Qualify as a Tower Flight Data Controller (TFD).

Requirement. Perform the duties and responsibilities of a TFD IAW the reference.

Performance Standard. Demonstrate the duties of a TFD to a level of proficiency expected of a qualified TFD under general supervision.

Prerequisite. 3600.

Instructor. SI (Tower Chief).

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. Local directives.

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QUAL 6173 1.0 (5500) B, R L

Goal. Qualify as a Tower Ground Controller (TGC).

Requirement. Perform the duties and responsibilities of a TGC IAW the reference.

Performance Standard. Demonstrate the duties of a TGC to a level of proficiency expected of a qualified TGC under general supervision.

Prerequisite. 3620.

Instructor. SI (Tower Chief).

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. Local directives.

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QUAL-6203 2.0 (1460) B, R L

Goal. Qualify as an MMT Member (MMTM).

Requirement. During an operation or training exercise while using required equipment, qualify as an MMT Member by demonstrating proficiency to effectively and safely perform as an MMT member in the conduct of the mission.

Performance Standard. With no assistance, achieve a minimal grade of qualified in the execution of the requirements.

Instructor. MMTI.

Prerequisite. 3310, 3311, 3312, 6500.

Reference. MMT TACSOP.

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QUAL-6213 2.0 (1460) B, R L

Goal. Qualify as a MMT Leader (MMTL).

Requirement. During an operation or training exercise while using required equipment, qualify as an MMT Leader by demonstrating

proficiency to effectively and safely lead an MMT in the conduct of the mission.

Performance Standard. Without assistance, achieve a minimal grade of qualified while leading an MMT during the execution of the requirements. Completion of the MAWTS-1 MMTI course meets the requirement.

Instructor. MMTI.

Prerequisite. 3300, 3301, 3302, 6203.

Reference. MMT TACSOP.

#### 2.13.4 Designations

2.13.4.1 Purpose. To provide for the designation of combat leaders, instructors, and select MATC positions.

#### 2.13.4.2 General

##### Admin Notes

(1) Prerequisites for designations should be completed prior to designating individuals. However, in the event that a commander deems it necessary to designate someone who has not completed the prerequisite, that person must complete the prerequisite within 6 months from the effective date of designation.

(2) The unit WTTP officer shall ensure the following is completed before an individual designation is effective:

(a) All syllabus training requirements for the designation are completed prior to being considered for designation.

(b) The trainee is recommended for designation as noted in the designation event, the designation letter is signed by the commanding officer and filed in the PR, and the designation event code is logged in M-SHARP. The designation is not effective until all actions have been completed.

(3) Common MACCS Instructor designation events are contained in the MAWTS-1 C3 Course Catalog to ensure standardization across the MACCS. ATC specific instructor designation requirements are delineated in the IUT 5000 phase.

Crew Requirements. Per the applicable designation syllabus.

##### Designations

Basic Instructor (BI)  
Senior Instructor (SI)  
Weapons and Tactics Instructor (WTI)  
MATC Mobile Team Instructor (MMTI)  
MATCD Watch Commander (WC)  
MATC Facility Officer (MATCFO)  
MATCD Commander

MEU MACG Detachment OIC

DESG-6320 1.0 (\*) B L

Goal. Designation as Basic Instructor (BI).

Requirement. Be recommended for designation by an SI and designated in writing by detachment commander or facility officer.

Prerequisite. Meet requirements per the BI POI in the MAWTS-1 C3 Course Catalog, reference (b).

DESG-6321 1.0 (\*) B L

Goal. Designation as Senior Instructor (SI).

Requirement. Be recommended for designation by the NCOIC or a WTI and designated in writing by the detachment commander or facility officer.

Prerequisite. Meet requirements per the SI POI in the MAWTS-1 C3 Course Catalog, reference (b).

DESG-6322 1.0 (\*) B L

Goal. Designation as Weapons and Tactics Instructor (WTI).

Requirement. Be recommended for designation by the squadron WTI WTPP and designated in writing by the commanding officer

Prerequisite. Be a graduate of the MAWTS-1 WTI Course, SCHL-6000.

DESG-6324 1.0 (\*) B L

Goal. Designation as MATC Mobile Team Instructor (MMTI).

Requirement. Be designated in writing by the detachment commander.

Prerequisite. Graduate the MAWTS-1 MMT Instructor's course, SCHL-6004, 6213.

DESG-6420 1.0 (\*) B L

Goal. Designation as a MATC Facility Officer (MATCFO).

Requirement. Perform duties and responsibilities of a MATCFO. Demonstrate proficiency in:

1. Crew management.
2. Control judgment.
3. Traffic management.
4. Operating procedures and methods.
5. Coordination and communication.
6. NOTAMS.
7. Flight schedules/ATO.
8. Airfield status.

- 9. Equipment.
- 10. Flight Inspections

Performance Standards. Complete the requirement items IAW the references.

Prerequisite. 6500.

Reference.

- 1. Facility Manual.
- 2. NAVAIR 00-80T-114.

DESG-6430 1.0 (\*) B \_\_\_\_\_ L

Goal. Designation as a MATCD Commander.

Prerequisite. 6500.

Reference

- 1. MATCD Handbook.
- 2. NAVAIR 00-80T-114.

DESG-6440 1.0 (\*) B \_\_\_\_\_ L

Goal. Designation as a MEU MACG Detachment OIC.

Prerequisite. 6500.

2.13.5 Certifications

2.13.5.1 Purpose. To provide for the certification of MATCOs in key positions of skill and leadership.

2.13.5.2 General.

Admin Notes

(1) Prerequisites for certifications should be completed prior to certifying individuals.

(2) The unit WTPP officer shall ensure the following is completed before an individual certification is effective:

(a) All syllabus training requirements for the certification are completed prior to being considered for certification.

(b) The trainee is recommended for certification as noted in the certification event, the certification letter is signed by the commanding officer and filed in the PR, and the certification event code is logged in M-SHARP. The certification is not effective until all actions have been completed.

(3) For certification as Facility Watch Officer, the facility generated designation letter shall serve as a certification letter. The designation will expire upon leaving station, but the certification recognizes the attainment of necessary knowledge and skills for application beyond the air station environment.

(4) For completion of formal schools/courses, the student will submit the completion certificate to the WTTP prior to running the completion code in M-SHARP. The WTTP will include a copy of the certificate in the performance record.

Crew Requirements. Per the applicable certification syllabus.

Certifications

Facility Watch Officer (FWO)  
Watch Commander (WC)  
Formal Schools/courses

CERT-6500 1.0 (\*) B L

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Goal. Certification as Facility Watch Officer (FWO).

Requirement. Be designated in writing by the facility officer.

Prerequisite. 2600, 2700, 2800, 6103, 6113, 6153, 6173, 8551, 8552, 8553, 8554, 8555, 8000, 8020.

Reference.

1. NAVAIR 00-80T-114.
2. Local Directives.

CERT-6510 1.0 (\*) B L

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Goal. Certification as a MATCD Watch Commander (WC).

Requirement. Given an operation or exercise perform the duties and responsibilities of a WC.

Performance Standards. Demonstrate knowledge and proficiency in:

1. Crew management.
2. Maintain current status of BDZ if in a tactical environment.
3. MACCS information flow.
4. Interface with external MACCS agencies.
5. Control judgment.
6. Traffic management.
7. Operating procedures and methods.
8. Coordination and communication.
9. NOTAMS.
10. Flight schedules/ATO.
11. Airfield status.
12. Equipment readiness.

Prerequisite. 2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012, 2030, 2100, 2101, 2105, 2120, 2121, 2122, 2123, 2124, 2125, 2135, 2300, 3500, 3501, 3502, 3503, 3504, 3505, 6500, 8560, 8561, 8563, 8570, 8571, 8701, 8703, 8704, 8705, 8000, 8020, 8040, 8060, 8080.

Instructor. WTI.

Reference. MCWP 3-25.8.

2.13.5.3 FORMAL SCHOOLS. Information on availability of formal school quotas is released by TECOM in the MACCS Skills Enhancement Message. Many of the courses are funded by TECOM.

COURSE NAME	LOCATION	CID/CIN	T&R CODE
Weapons and Tactics Instructor Course	MCAS Yuma, AZ	M14P2A1	SCHL-6000
Senior Watch Officer's Course	MCAS Yuma, AZ	N/A	SCHL-6001
Air Command and Control Officer's Course	MCAS Yuma, AZ	M1467Q1	SCHL-6002
ACE Battlestaff Officer Course	MCAS Yuma, AZ	N/A	SCHL-6003
Marine Air Traffic Control Mobile Team Instructor Course	MCAS Yuma, AZ	N/A	SCHL-6004
AOCIQT-Airspace Course	Hurlburt Field, FL	F19KXD2	SCHL-6010
AOCIQT-Personnel Recovery Course	Hurlburt Field, FL	F19KXE2	SCHL-6011
Joint Air Operation Center Command and Control Course Airspace Course	Hurlburt Field, FL	F19L2W2	SCHL-6015
Link 16 Interoperability Course (JT-101)	Ft McPherson, GA	A36L391	SCHL-6020
Multi-TDL Advanced Joint Interoperability Course (JT-102)	Ft McPherson, GA	A36L6Z1	SCHL-6021
MATCALS Advanced Operators Course	NATTC, FL	N2373H2	SCHL-6042
Air Traffic Control Manager Course	NATTC, FL	N2373H2	SCHL-6043
Advanced Radar Air Traffic Control Course	NATTC, FL	N2373G2	SCHL-6044
Terminal Instrument Procedures Course	NATTC, FL	C45CVRM	SCHL-6065
Combat Survey and Assault Zone Assessment Course	Pope AFB, NC	N/A	SCHL-6066
Military Airspace Management Course	NAS Biloxi, MS	F0273D1	SCHL-6067

## 2.14 ACADEMIC TRAINING

2.14.1 Purpose. To provide trainees the requisite standardized academic knowledge to perform their assigned duties. These events will serve as the baseline learning objectives for academic training. References provided shall be used during training. However, all ACAD events will be performed to proficiency without the aid of reference.

### 2.14.2 General

2.14.2.1 Admin Notes. The ACAD events are not stand-alone events for training, but form the knowledge prerequisites for training to core, mission, and core plus skills.

2.14.2.2 Stage. MATC Academics (ACAD)

2.14.2.3 Total Training Events. Live - 59 events, 59 hours.

ACAD-8500 1.0 (\*) B I

Goal. Comprehend general ATC knowledge.

Requirement. Conduct the following IAW the reference:

1. Describe the purpose of ATC.
2. Describe the meaning of specific terms of references.
3. Describe ATC service, duty priority, operational priority and procedural preference.
4. Describe flight plans and control information.
5. Describe team position responsibilities.
6. Describe criteria and phraseology for establishing two-way communications.

Performance Standard. Pass a written examination encompassing the requirements with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

ACAD-8501 1.0 (\*) B L

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Goal. Comprehend general ATC terminology.

Requirement. Describe the following IAW the reference:

1. Additional Service.
2. Advisory Frequencies.
3. Aerial Refueling.
4. Affirmative.
5. Roger.
6. Wilco.
7. Aircraft Classes.
8. AirMet.
9. Approach Gate.
10. Final Approach Fix.
11. Final Approach Course.
12. Decision Height.
13. Overhead Maneuver.
14. Pilot's Discretion.
15. Pilot Weather Report.
16. Preferential Routes.
17. Procedure Turn.
18. Segments of an Instrument Approach Procedure.
19. Short Range Clearances.
20. Simulated Flameout.
21. Missed Approach.
22. Tower EnRoute Control Service.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65 Glossary Terms.

ACAD-8502 1.0 (\*) B L

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Goal. Comprehend the airfield layout.

Requirement. Given an airfield diagram, conduct the following:

1. Label runways, to include:
  - a. Numbering/markings.
  - b. Length and width.
2. Draw location of windsock(s).
3. Draw location of optical landing system.
4. Draw name/designation.
5. Label taxiways to include name or number.
6. Label special use areas (hazardous cargo, hot brakes, ordnance load/offload, arm/dearm, etc).
7. Label fuel pits and provide the numbering for each.
8. Label location of aircraft wash racks.
9. Label tenant squadron's parking ramps.
10. Label transient aircraft parking ramps, to include VIP spots.
11. Label Airfield Rescue and Fire Fighting building and hotspot locations.
12. Label hangars with their assigned units.
13. Label the location of the airfield beacon.
14. Label TACAN checkpoints and compass rose.
15. Identify and label obstructions on the airfield.
16. Label the ATC radar location.

Performance Standard. Pass a written examination encompassing the requirements with a minimum score of 80%.

Prerequisite. Airfield Tour.

Instructor. BI.

Reference. Local Directives.

ACAD-8503 1.0 (\*) B L

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Goal. Comprehend local area/airfield specific information.

Requirement. Conduct the following IAW the reference:

1. Describe when arresting system operations are in affect.
2. Describe the guidelines for runway selection.
3. Describe local airfield weather minimums.
4. List aircraft type, modex, and tactical callsigns of each tenant squadron.
5. Describe local traffic patterns and no-fly areas.
6. List alternate, divert, and adjacent airfields.
7. List local frequencies pertinent to air traffic or safety of flight.

Performance Standard. Pass a written examination encompassing the requirements with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local Directives.

ACAD-8504 1.0 (\*) B L

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Goal. Comprehend location of ATC Facility Emergency/Safety equipment.

Requirement. Given a diagram, conduct the following:

1. Label the location of all fire extinguishers.
2. Label the main power circuit breaker.
3. Label the location(s) of the Fire Bill.
4. Label the location(s) of the evacuation route.

Performance Standard. Pass a written examination encompassing the requirements with a minimum score of 80%.

Prerequisite. Tour of the facility or detachment to observe safety and security procedures and equipment.

Instructor. BI.

References. Local Directives.

ACAD-8505 1.0 (\*) B L

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Goal. Comprehend ATC emergency procedures and policies.

Requirement. Describe the following IAW the reference:

1. In-flight equipment malfunctions.
2. Minimum Fuel.
3. Below Minima Report by Pilot.
4. Emergency Code Assignment.
5. Emergency Assistance.
6. Overdue Aircraft.
7. Control Actions.
8. Facility Operation.
9. Security of Facilities.
10. Aircraft Accidents and Incidents.
11. Air Traffic Control Hazards (Operational Errors/Deviations).

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. Local Directives.

ACAD-8506 1.0 (\*) B L

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Goal. Comprehend the handling of special flights procedures and policies.

Requirement. Describe the following IAW the reference:

1. Flight inspection aircraft.
2. Aircraft carrying dangerous materials.
3. IFR military training routes.
4. Military aerial refueling.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

ACAD-8507 1.0 (\*) B L

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Goal. Comprehend basic weather knowledge.

Requirement. Conduct the following IAW the reference:

1. Define the term Hazardous In-flight Weather Advisory Service (HIWAS).
2. Describe the criteria for reporting a PIREP.
3. Describe weather and chaff services.
4. Describe calm wind conditions.
5. Describe criteria for reporting weather conditions.
6. Describe criteria for disseminating weather information.
7. Describe where the current altimeter setting can be obtained.
8. Describe braking action.
9. Describe braking action advisories.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

References.

1. JO 7110.65.
2. Local Directives.

ACAD-8508 1.0 (\*) B L

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Goal. Comprehend information contained in Local Letters of Agreement.

Requirement. Given the reference material, identify the key information contained in the references.

Performance Standard. During a guided discussion, complete the requirement. The instructor will question and mentor the trainee throughout the discussion.

Instructor. BI.

References. Local Letters of Agreement.

ACAD-8509 1.0 (\*) B L

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Goal. Comprehend knowledge of ATC publications.

Requirement. Given the reference material, identify the key information contained in the references.

Performance Standard. During a guided discussion, complete the requirement. The instructor will question and mentor the trainee throughout the discussion

Instructor. BI.

References.

1. JO 7220.1.
2. JO 7210.3.
3. JO 7340.1.
4. CFR 91.
5. Airman's Information Manual.
6. Airfield Operations Manual.
7. ATC Facility Manual.
8. IFR Supplement.
9. VFR Supplement.
10. NOTAMS.
11. AP1B.
12. Local sectional chart(s).
13. NAVAIR 00-80T-114.
14. Low Altitude United States.
15. High Altitude United States.

ACAD-8520 1.0 (\*) B L

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Goal. Comprehend radio and interphone communications knowledge.

Requirement. Describe radios and interphone communications IAW the reference.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8521 1.0 (\*) B L

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Goal. Comprehend aircraft movement data knowledge.

Requirement. Conduct the following IAW the reference.

1. Describe the terms for acknowledgement of clearances and instructions.
2. Describe interphone transmission priorities.

NAVMC 3500.94  
2 Feb 12

3. Describe the terms for priority interruption.
4. Describe the interphone message format.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

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ACAD-8522 1.0 (\*) B L

Goal. Comprehend flight progress strip knowledge.

Requirement. Conduct the following IAW the reference:

1. Describe the methods for updating information on flight progress strips.
2. Label flight progress strips, to include:
  - a. Arrivals.
  - b. Departures.
  - c. Overflights.
  - d. Enroute aircraft.
3. List aircraft prefixes.
4. List aircraft suffixes.
5. List flight progress strip control information symbols.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

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ACAD-8523 1.0 (\*) B L

Goal. Comprehend ATC clearance knowledge and phraseology.

Requirement. Conduct the following IAW the reference:

1. Identify the clearance items.
2. Describe how to relay clearances.
3. Describe the phraseology to issue route or altitude amendments.
4. Describe the phraseology to issue a through clearance.
5. Describe the phraseology to issue an ALTRV clearance.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

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ACAD-8524 1.0 (\*) B L

Goal. Comprehend airfield lighting knowledge.

Requirement. Describe the following IAW the reference (as applicable):

1. Emergency Lighting.
2. Runway End Identifier Lights.
3. VASI Lights.
4. Approach Lights.
5. ALS Intensity.
6. Sequenced Flashing Lights.
7. MALSR.
8. ALSF-2.
9. Runway Edge Lights.
10. High Intensity Runway, Centerline Light.
11. HIRL, Associated With MALSR.
12. HIRL Changes.
13. Medium Intensity Runway Lights.
14. Simultaneous Approach/Runway Edge.
15. High-Speed Turnoff Lights.
16. Taxiway Lights.
17. Obstruction Lights.
18. Rotating Beacon.
19. Precision Approach Path Indicators (PAPI).

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. JO 7210.3.
3. Local directives.

ACAD-8525 1.0 (\*) \_\_\_\_\_ B \_\_\_\_\_ L \_\_\_\_\_

Goal. Comprehend requirements and phraseology for Special VFR operations.

Requirement. Identify the guidelines and criteria required for Special VFR operations to include:

1. Authorization criteria.
2. Clearance phraseology.
3. SVFR priorities.
4. Separation requirements.
5. Altitude Assignment.
6. Local operations.
7. Climb to VFR.
8. Ground visibility below one mile.
9. Flight visibility below one mile.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference. JO 7110.65.

ACAD-8526 1.0 (\*) B L

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Goal. Comprehend visual separation, types of approaches, and VFR-on-top procedures.

Requirement. Conduct the following IAW the reference (as applicable):

1. Define VFR conditions.
2. Explain visual separation.
3. Explain VFR-on-top procedures.
4. List and define the types of approaches.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8527 1.0 (\*) B L

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Goal. Comprehend Air Traffic Control Phraseology/Communications as it applies to ground control.

Requirement. Understand the proper ATC phraseology/communications procedures as it applies to ground control.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8528 1.0 (\*) B L

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Goal. Comprehend proper separation to vehicle and aircraft movement as it applies to ground control.

Requirement. Define separation criteria for air traffic in the terminal area. Understand how to provide ATC services based upon observed or known traffic and airport conditions per the references. At a minimum, include information in sections 1, 3, 7, and 11.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8529 2.0 (\*) B L

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Goal. Comprehend Air Traffic Control Phraseology/Communications as it applies to local control.

Requirement. Understand the proper ATC phraseology/communications procedures as it applies to local control.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8530 2.0 (\*) B L

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Goal. Comprehend proper separation to vehicle and aircraft movement as it applies to local control.

Requirement. Define separation criteria for air traffic in the terminal area. Understand how to provide ATC services based upon observed or known traffic and airport conditions per the references. At a minimum, include information in sections 1, 3, 7, and 11.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8531 2.0 (\*) B L

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Goal. Comprehend Spacing/sequencing/separation in the terminal environment.

Requirement. Define the guidelines for Spacing/sequencing/separation in the terminal environment.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8532 1.0 (\*) B L

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Goal. Comprehend radar equipment knowledge.

Requirement. Describe the following IAW the reference.

1. Presentation and equipment performance.
2. Alignment accuracy check.
3. Radar use.
4. Beacon range accuracy.
5. Electronic cursor.
6. Altitude filters.
7. Standby/low sensitivity operation.
8. Inoperative interrogator.
9. In-flight deviations from transponder.
10. Automated Radar Terminal Systems (ARTS) - Terminal.
11. TPX-42 - Terminal.
12. Facility Equipment General.
13. Radar Use.
14. Video Maps.
15. Airport Facilities.
16. (Radar Operations) Equipment.
17. Precision Approach Landing System Approach Criteria.
18. Facility equipment.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. JO 7210.3.
3. NAVAIR 00-80T-114.
4. Local directives.

ACAD-8533 2.0 (\*) B L

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Goal. Comprehend radar final control knowledge.

Requirement. Describe the following IAW the reference.

1. Wheels Down Check.
2. Vectoring.
3. Speed adjustments.
4. No-Gyro Approach.
5. Lost Communications.
6. Radar Contact Lost.
7. Landing Check.
8. Final Controller Changeover.
9. Communications Check.
10. Transmission Acknowledgment.
11. Missed Approach.
12. Low Approach and Touch-and-Go.
13. Tower Clearance.
14. Final Approach Abnormalities.
15. Military Single Frequency Approaches.
16. Surveillance Approaches Terminal.
17. PAR Approaches-Terminal.
18. Use of PAR for Approach Monitoring.
19. Radar service termination.

20. Approach Separation Responsibility.
21. Establishing Two-way Communications.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

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ACAD-8534 2.0 (\*) E L

Goal. Comprehend basic radar knowledge.

Requirement. Describe the following IAW the reference.

1. Formation flights.
2. Wake turbulence.
3. Wake Turbulence Cautionary Advisories.
4. Observed Abnormalities.
5. Landing Area condition.
6. Timely Information.
7. Traffic advisories.
8. Bird activity information.
9. Traffic information.
10. Altitude Restricted Approach.
11. Vertical separation minima.
12. Single frequency approaches (SFA).
13. Clearance relay.
14. Transfer of radar identification.
15. Circling Approach.
16. Radar Identification.
17. Radar Separation.
18. Radar Arrivals.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

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ACAD-8535 1.0 (\*) B L

Goal. Comprehend radar special operations.

Requirement. Describe the following IAW the reference.

1. Special Use and ATC Assigned Airspace.
2. Fuel Dumping.
3. Jettisoning of External Stores.
4. Parachute operations.

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Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

ACAD-8536 2.0 (\*) B L

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Goal Comprehend arrival/departure/approach control knowledge.

Requirement. Describe the following IAW the reference.

1. NAVAID Malfunctions.
2. NAVAID Terms.
3. NAVAIDS Fixes.
4. Position Information.
5. Beacon Systems.
6. NAVAID Use Limitation.
7. Communications release.
8. Route Use.
9. Route Structure Transitions.
10. Degree-Distance Route.
11. Alternative Routes.
12. Holding Aircraft.
13. Holding Instructions.
14. Arrival Procedures.
15. Switching ILS / MLS Runways.
16. Approach Information.
17. Terminal Instrument Approach Procedures.

Performance Standard.

1. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. JO 7210.3.
3. NAVAIR 00-80T-114.
4. Local directives.

ACAD-8537 4.0 (\*) B L

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Goal. Comprehend non-radar knowledge.

Requirement. Describe the following IAW the reference.

1. Flight Progress Strips.
2. Route and NAVAID Description.
3. Approach Clearance Procedures.
4. General Non-radar procedures.
5. Initial Separation of Successive Departing Aircraft.
6. Initial separation of Departing and Arriving Aircraft.
7. Longitudinal Separation.

8. Lateral Separation.
9. Vertical Separation.
10. Timed Approaches.
11. Naval Certification Procedures.
12. General Radar Operations.
13. Training, Standardization, and Air Traffic Controller Performance Evaluations.
14. Air Traffic Control Specialist Mishap Statement.
15. Minimum Altitude Vectoring Chart.

Performance Standard.

1 Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. Local directives.

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ACAD-8538 1.0 (\*) B L

Goal. Comprehend radar coordination procedures.

Requirement. Describe the following IAW the reference.

1. Radio & Interphone Communication monitoring.
2. Authorized Interruptions.
3. Authorized Relays.
4. Clearance Prefix.
5. Departure Clearances.
6. Abbreviated Departure Clearance.
7. Delay Sequencing.
8. Delays.
9. Forward Departure Delay Info.
10. Coordination with receiving facility.
11. Forwarding departure times.

Performance Standard.

1. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. BI.

Reference.

1. JO 7110.65.
2. Local directives.

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ACAD-8539 2.0 (\*) B L

Goal. Comprehend radar clearance knowledge.

Requirement. Describe the following IAW the reference.

1. ALTRV Clearances.
2. Clearance Items.



ACAD-8550 4.0 (\*) B L

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Goal. Comprehend knowledge applicable to supervisor positions.

Requirement. Describe the following IAW the reference.

1. Control authority.
2. Daily operations log.
3. Operating positions.
4. Human performance and medical qualifications.
5. Use of intoxicating drugs and alcoholic beverages.
6. Blood donors.
7. Workload planning.
8. Time Standards.
9. Communications.
10. Security of facilities.
11. Importance of collecting data.
12. Guidance concerning investigation and reporting.
13. ATC involvement.
14. Involvement of a facility or navigation aid.
15. ATC procedures following an accident/incident.
16. ATC personnel involved in an accident/incident.
17. Disciplinary action.
18. Operational errors/deviations.
19. Activity report.
20. Billet descriptions, USMC.
21. Relief periods.
22. FAA Form 7230-4, Daily Record of Facility Operations.
23. Preparation of Form 7230-4.
24. Tower Team position responsibilities.
25. Applicable information contained in local directives.

Performance Standard. Pass a written examination encompassing the requirement with a minimum score of 80%.

Instructor. SI (Tower and/or Radar Supervisor)

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. JO 7210.3.
4. Local Directives.

ACAD-8551 2.0 (\*) B L

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Goal. Comprehend the roles and responsibilities of the Training Chief and the training process.

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the facility Training Chief.
2. Facility training program requirements.
3. Indoctrination program.
4. Records maintenance.
5. Controller Evaluation Boards.
6. MOS revocation process.
7. On-the-Job Training Process.



Instructor. SI (Radar Chief).

Reference.

1. NAVAIR 00-80T-114.
2. Local Directives.

ACAD-8554 2.0 (\*) B L

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Goal. Comprehend aspects of facility management.

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. ATC Facility classification standard.
2. Requirement for, and details of, Letters of Agreement.
3. Requirement for, and details of, Memorandums of Agreement.
4. Facility Logs.
5. Personnel management.
6. Medical Certifications.
7. Procedures Evaluation Boards.
8. Facility operation.
9. Procedures following accidents/incidents.

Performance Standard. Complete the requirement items IAW the references. The instructor will question and mentor the trainee throughout the discussion.

Instructor. SI (ATCFO, ATCNCOIC, Branch Chiefs).

Reference.

1. NAVAIR 00-80T-114.
2. Local Directives.

ACAD 8555 1.0 B L

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Goal. Comprehend the roles and responsibilities of the ATC Facility Officer (ATCFO).

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the ATCFO
2. SOP requirements.
3. Incident/Accident information safeguarding.
4. Personnel assignment.
5. Liaison requirements.
6. Equipment management.
7. Relationship to ATCF NCOIC.

Performance Standard. Complete the requirement items IAW the references. The instructor will question and mentor the trainee throughout the discussion.

Instructor. SI (ATCFO).

Reference.

1. NAVAIR 00-80T-114.

2. Local Directives.

ACAD-8560 1.0 (\*) B L

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Goal. Comprehend airspace and MATC considerations in regard to the Federal Aviation Administration (FAA) or host-nation equivalent.

Requirement. During a guided discussion, describe or complete the following in regard to airspace and ATC considerations and the FAA:

1. Status of MATC equipment systems.
2. Operational tempo of civilian flights within local airspace.
3. Liaison between FAA and MATC representatives.
4. Information flow between civilian and military MATC personnel.
5. Control measures to deconflict military/civilian aircraft, to include:
  - a. IFR / VFR routes.
  - b. Special use airspace.
  - c. Military operating areas.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion. This event can be accomplished by completion of the Airspace Management Course.

Instructor. SI (MATCD Commander, ATCFO, TSS/TSO, Branch Chiefs).

Reference.

1. JO 7610.4.
2. AP/1A.

ACAD-8561 1.0 (\*) B L

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Goal. Comprehend the supply requirements and considerations when deploying the MATCD.

Requirement. During a guided discussion, or during an actual deployment of a fully equipped MATCD, and given the references, identify and explain purpose and use of the following:

1. Deployment support package for blue dollar ATC equipment.
2. Supply chain for requisitioning (blue dollar) parts through the Marine Aviation Logistics Squadron (MALS).
3. Green dollar IX Block package.
4. Green dollar requisition agencies and process.
5. Supporting establishment agencies responsible to support MATCD equipment.
6. Bill of Materials (BOM).

Performance Standard. Complete the requirement steps IAW the references. The instructor will question and mentor the trainee throughout the discussion or execution of the event steps.

Instructor. SI (MATCD Maintenance Officer/Chief).

Reference. MCWP 3-25.8.

ACAD-8562 1.0 (\*) B L

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Goal. Comprehend the administrative process of embarkation.

Requirement. Given a mission, after reviewing the references, and during a guided discussion, identify and explain the purpose, use and process for the following:

1. Development of an Equipment Density List (EDL) to support operations.
2. Heavy equipment requirements for gear movement.
3. EDL submission process for development of MDSS II data through the squadron S-4.
4. MDSS II data conversion by the MAGTF Planner for conversion to Time Phased Force Deployment Data (TPFDD).
5. Changes to TPFDD and General Officer Letters.
6. Review of TPFDD for accuracy and movement timelines/methods.

Performance Standard. Complete the requirement steps IAW the references. The instructor will question and mentor the trainee throughout the discussion or execution of the event steps.

Instructor. SI (MATCD Commander, S-3, S-3A, S-4).

Reference.

1. MCWP 3-25.8.
2. MCO 3000.18A.
3. CJCSM 3122.01.

ACAD-8563 1.0 (\*) B L

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Goal. Comprehend the process to submit a frequency request.

Requirement. During a guided discussion, and after reviewing the reference, describe the following:

1. Information required for submission of a frequency request:
  - a. Equipment nomenclature.
  - b. Antenna locations.
  - c. Frequency bands.
  - d. Required number of frequencies.
  - e. Power output.
2. JS-12.
3. Submission timelines.
4. Routing to the Spectrum Manager.

Performance Standard. Complete the requirement steps IAW the references. The instructor will question and mentor the trainee throughout the discussion or execution of the event steps.

Instructor. BI (MATCD Maintenance Officer/Chief).

Reference.

1. MCWP 3-25.8.
2. MCRP 3-40.2A.
3. MCO 2400.2.

ACAD-8570 1.0 (\*) B L

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Goal. Comprehend basic knowledge of the MMT.

Requirement. After receiving the MAWTS-1 MMT Overview Presentation and during a guided discussion:

1. Explain the historical background of the MMT.
2. Define the mission of the MMT.
3. Explain the functions of the MMT.
4. Explain the organization of the MMT.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. MMTI.

Reference.

1. MCWP 3-25.8.
2. MMT TACSOP.
3. MAWTS-1 Course Catalog.

ACAD-8571 2.0 (\*) B L

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Goal. Comprehend tactical communications terms and procedures.

Requirement. During a guided discussion and given the references:

1. Describe the authentication process.
2. Define the term Gingerbread.
3. Define the term Chattermark.
4. Describe the seven Beadwindow Codes.
5. Describe the three Zip Lip Conditions.
6. Understand Lost Communication Procedures.
7. Define EMCON and explain the procedures.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. WTI, MMTI.

Reference.

1. MCRP 3-40.3B, Radio Operator's Handbook.
2. MMT TACSOP.

ACAD-8572 2.0 (\*) B L

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Goal. Comprehend the Marine Corps Rapid Response Planning Process (R2P2).

Requirement. During a guided discussion, conduct the following:

1. Identify and explain the six steps of R2P2.
2. Identify and describe the duties and responsibilities of the eight key billet holders for R2P2.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. MMTI.

Reference.

1. MCWP 5-1, Marine Corps Planning Process.
2. MCWP 5-11.1, MAGTF Aviation Planning.

ACAD-8573 1.0 (\*) B L L

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Goal. Describe the MEU(SOC) mission.

Requirement. Given the reference and during a guided discussion:

1. State the MEU(SOC) mission.
2. State the MEU(SOC) mission essential tasks (MET) and the output standards for each.
3. Describe the MEU(SOC) certification policy.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. WTI, MMTI.

Reference. MCO 3120.9B.

ACAD-8574 2.0 (\*) B L

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Goal. Comprehend Forward Arming and Refueling Point (FARP) operations.

Requirement. After receiving the MAWTS-1 MMT FARP Operations Presentation and the references, and during a guided discussion:

1. Explain the three types of Aviation Ground Support (AGS) FARPs and NATOPS ground separation criteria associated to each.
2. Explain Rapid Ground Refueling (RGR) operations.
3. Explain Tactical Bulk Fuel Dispensing System (TBFDS) operations.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. MMTI.

Reference.

1. MMT TACSOP.
2. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual.
3. ANTTP 3-22.5, RW TACSOP.
4. ANTTP 3-22.3, KC-130 TACSOP.
5. MAWTS-1 Course Catalog.

ACAD-8575 4.0 (1460) B,R L

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Goal. Complete the MATC NITE Lab course.

Requirement. While attending the MATC NITE Lab course:

1. Understand the basic operating principles of NVGs and appreciate their capabilities and limitations.
2. Understand the affects of the night environment on NVG performance.
3. Understand how human physiology impacts NVG operations.
4. Be familiar with various misperceptions and illusions that occur when using NVGs operationally.
5. Describe the modifications required in order to make an ATC tower NVG compatible.
6. Be able to correctly preflight, adjust, and focus NVGs to provide maximum visual acuity.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion.

Instructor. SI/MMTI (NITE Lab instructor).

Reference. MAWTS-1 NVD Manual.

ACAD-8576 16.0 (\*) B L

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Goal. Complete the Antenna Construction and Propagation of Radio Waves MCI.

Requirement. Comprehend the following:

1. Radio wave theory.
2. Antenna construction.
3. Electromagnetic Compatibility Analysis Center (ECAC) services.

Performance Standard. Demonstrate understanding of the requirement items through successful completion of the MCI.

Instructor. SI/MMTI.

Reference. MCI 2515H.

ACAD-8600 2.0 (\*) B L

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Goal. Comprehend the Tactical Data Links that pertain to the MATCD.

Requirement. Given the reference, and during a guided discussion, conduct the following:

1. State the purpose, the characteristics, and the use of:
  - a. Ground-Based Data Link (GBDL)
  - b. Link-11B
  - c. Link-16
2. Identify equipment organic to the MACCS capable of providing each type of TDL.
3. Specifically for Link11B, state the following:



4. State the legal and preferred IU address range for a Link-16 C2 JU.
5. State the definitions of:
  - a. Time Division Multiple Access (TDMA).
  - b. Network Design Load (NDL).
  - c. Network Time Reference (NTR).
  - d. Coarse Synchronization (Coarse Sync).
  - e. Fine Synchronization (Fine Sync).
  - f. Initial Entry JTIDS Unit (IEJU).
6. Define the following terms:
  - a. TSEC.
  - b. MSEC.
  - c. Stacked Net.
  - d. Multi-Net.
7. List and explain the components found in the Class 2/2H terminal.
8. List the systems capable of utilizing Link-16.
9. List the countries capable of utilizing Link-16.

Performance Standard. Complete the requirement items IAW the reference. Minor errors corrected by the trainee are acceptable.

Instructor. BI.

Reference.

1. TM-08565A 24/3, Tactical Air Operations Module Technical Manual.
2. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP).

ACAD-8700 1.0 (\*) B L

Goal. Develop plans for MATCD services in support of a Forward Operating Base (FOB).

Requirement. During a guided discussion and given a tactical scenario with a LOI or MAPP, and a level of required MATC services, identify the level of force protection required, lift assets available, planned location, and adjacent agencies associated with a (refer to MAWTS-1 ASP):

1. Main Base.
2. Air Facility.
3. Air Site.
4. Air Point.
  - a. Forward Arming and Refueling Point (FARP).
  - b. Lager Point.

Performance Standard. Demonstrate an understanding of the steps in the requirement. Instructor will question and mentor the trainee throughout the discussion. Successful completion of the MAWTS-1 C3 Course will accomplish this event.

Instructor. WTI.

Reference. MATCD Handbook.

ACAD-8701 1.0 (\*) B L

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Goal. Comprehend MATCD communications assets and their associated capabilities.

Requirement. During a guided discussion and given a garrison or field setting, demonstrate knowledge of MATCD communications assets and its capabilities to include:

1. HF/VHF/UHF radios.
2. Communication equipment associated with the AN/TSQ-120, AN/TSQ-216, AN/TPN-31A, and AN/TSQ-131.
3. Encryption capabilities and COMSEC procedures.

Performance Standard. Complete the requirements IAW the reference. Instructor will question and mentor the trainee throughout the discussion.

Instructor. MI (Maintenance Officer or Maintenance Chief, or Communications Chief).

Reference. MATCD Handbook.

ACAD-8703 2.0 (\*) B L

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Goal. Comprehend rear area security planning.

Requirement. During a guided discussion and given the references, understand the concepts, design, and implementation of a security plan for the MATCD.

1. Describe the fundamentals for usage of and the relationships between the following:
  - a. Base Defense Operations Center (BDOC).
  - b. Anti-Terrorism Officer (ATO).
  - c. Assistant Anti-Terrorism Officer (AATO).
  - d. Patrol Leader (PL).
  - e. Roving Patrol.
  - f. Quick Reaction Force (QRF).
  - g. Entry Control Points (ECP).
  - h. Vehicle Check Points (VCP).
  - i. Observation Posts (OP).
  - j. Listening Posts (LP).
2. Describe passive security measures for a MATCD based on current threat assessments, to include:
  - a. Dispersion and camouflage.
  - b. Hardening of sites and installations (cover).
  - c. Establishment of defensive plans and positions, to include a barrier plan, obstacle emplacement, and sectors of fire for crew-served and individual weapons.
3. Describe active security measures for a MATCD based on current threat assessments, to include:
  - a. Patrols to establish OPs, LPs, ECPs, VCPs, and other local security measures.
  - b. Convoy security.
  - c. Establish and coordinate security and quick reaction forces between adjacent units and geographical security areas.

- d. Basic infantry skill training, to include patrolling and crew-served weapons employment.
- 4. Account for general contingencies and associated Immediate Action (IA) Drills, to include:
  - a. Sniper Fire.
  - b. Indirect Fire.
  - c. Direct Fire.
  - d. Improvised Explosive Devices (IED) and Vehicle-Borne IEDs (VBIED).
  - e. Aerial attack.

Performance Standard. Complete the requirement items IAW the references. Instructor will question and mentor the trainee throughout the discussion.

Instructor. SI, WTI, External instructor (TTECG).

Reference. FMFM1-5.

ACAD-8704 1.0 (\*) \_\_\_\_\_ B \_\_\_\_\_ L

Goal. Comprehend the relationship between the MATCD and Aviation Ground Support (AGS) units aboard a FOB.

Requirement. During a guided discussion, state and understand and the capabilities of AGS.

Performance Standard. Complete the guided discussion to obtain an understanding of AGS functions. Instructor will question and mentor the trainee throughout the discussion.

Instructor. WTI.

Reference. WTI AGS course.

ACAD-8705 2.0 (\*) \_\_\_\_\_ B \_\_\_\_\_ L

Goal. Comprehend key air C2 planning documents.

Requirement. During a guided discussion, and given an ACP, ATO/SPINS, ACO, and OPTASKLINK message, understand and identify critical information.

1. State the purpose and use of the:
  - a. ATO/SPINS.
  - b. ACP.
  - c. ACO.
  - d. OPTASKLINK.
2. Identify essential information contained in the ACP that supports airspace operations, to include:
  - a. ACM definitions.
  - b. Design of airspace.
  - c. Airspace procedures.
3. Identify essential information contained in the ATO/SPINS, to include:
  - a. Mission number / type.
  - b. Arrival / departure time(s).





in a joint environment. The focus in the Aviation Career Progression Model (ACPM) is on academics in the following areas:

Marine Air Command and Control System (MACCS)  
Aviation Combat Element (ACE)  
Threat to the MAGTF  
MAGTF Joint Air Operations

2.16.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as prerequisites to selected training events or stages. Additionally, several ACPM academic events are integrated as prerequisite for certain combat leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by selfpaced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:

<https://www.intranet.tecom.usmc.mil/sites/mawts1/aviation%20career%20progression%20model/forms/allitems.aspx>

Completed events shall be manually logged and tracked in M-SHARP.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

STAGE	TRNG CODE	T&R DESCRIPTION	ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	MACCS	1	2000 PHASE
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM	4	2000 PHASE
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)	4	2000 PHASE
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)	4	2000 PHASE
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)	4	2000 PHASE
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)	4	2000 PHASE
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)	4	2000 PHASE
ACPM	8007	UAS SUPPORT TO THE MAGTF	4	2000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)	4	2000 PHASE
ACPM	8020	ACE	1	6000 PHASE
ACPM	8021	AVIATION OPERATIONS	4	6000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES	4	6000 PHASE
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)	4	6000 PHASE
ACPM	8024	ASSAULT SUPPORT	4	6000 PHASE
ACPM	8025	AIR RECONNAISSANCE	4	6000 PHASE
ACPM	8026	ELECTRONIC WARFARE	4	6000 PHASE
ACPM	8027	ANTI-AIR WARFARE	4	6000 PHASE

ACPM	8028	AVIATION GROUND SUPPORT		4	6000 PHASE
ACPM	8040	THREAT		1	6000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	6000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	6000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	6000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	6000 PHASE
ACPM	8045	RADIO ELECTRONIC COMBAT THREAT TO THE MAGTF		4	6000 PHASE
ACPM	8060	MAGTF		1	6000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	6000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	6000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	6000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	6000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	6000 PHASE
ACPM	8080	JOINT AIR OPERATIONS		1	6000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	6000 PHASE
ACPM	8082	THEATER AIR GROUND SYSTEM (TAGS)		4	6000 PHASE
ACPM	8083	JOINT FIRE SUPPORT		4	6000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	6000 PHASE
ACPM	8085	JOINT TARGETING		4	6000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	6000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	6000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	6000 PHASE
TOTAL ACPM STAGE				39	141

2.16 T&R ATTAIN AND MAINTAIN TABLES

MATCO 7220											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
CORE SKILL (2000 Phase)											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
TWR/RDR	ORNT	2000	*	ORNT	2000					8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509	-
MATCD	EQPT	2001	*	EQPT	2001						-
AN/TSQ-120	EQPT	2002	*	EQPT	2002						-
ATCT	EQPT	2003R	5500	EQPT	2003R	EQPT	2003R	EQPT	2003R		-
ATCT	EQPT	2004R	5500	EQPT	2004R	EQPT	2004R	EQPT	2004R		-
AN/TSQ-216	EQPT	2005	*	EQPT	2005						-
AN/TPN-31A	EQPT	2006	*	EQPT	2006						-
AN/TPS-73	EQPT	2009	*	EQPT	2009						-
AN/TPN-22	EQPT	2010	*	EQPT	2010						-
AN/TRN-44	EQPT	2011	*	EQPT	2011						-
AN/TSQ-131	EQPT	2012	*	EQPT	2012						-
RATCF	EQPT	2018R	5500	EQPT	2018R	EQPT	2018R	EQPT	2018R		-
RATCF	EQPT	2019	*	EQPT	2019						-
AN/PSN-13A	EQPT	2025	*	EQPT	2025						-

TRN-47, MEP 531	EQPT	2026	*	EQPT	2026						-	
NVD	EQPT	2030R	1460	EQPT	2030R	EQPT	2030R	EQPT	2030R	8575	-	
NVD	EQPT	2031R	1460	EQPT	2031R	EQPT	2031R	EQPT	2031R	2030	-	
COMM	EXPD	2100	*	EXPD	2100					2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012	-	
SITE SURVEY	EXPD	2101	*	EXPD	2101					3504	-	
FLT CERT	EXPD	2102	*	EXPD	2102					8506, 3500	-	
LOA/MOU	EXPD	2103	*	EXPD	2103						-	
CASEVAC	EXPD	2104	*	EXPD	2104						-	
ACM	EXPD	2105	*	EXPD	2105						-	
WAIVER	EXPD	2106	*	EXPD	2106						-	
TACC	EXPD	2120	*	EXPD	2120					ACPM Module 8000	-	
TAOC	EXPD	2121	*	EXPD	2121					ACPM Module 8000	-	
DASC	EXPD	2122	*	EXPD	2122					ACPM Module 8000	-	
LAAD SECT	EXPD	2123	*	EXPD	2123					ACPM Module 8000	-	
UAS	EXPD	2124	*	EXPD	2124					ACPM Module 8000	-	
MAINT	EXPD	2125	*	EXPD	2125						-	
CREW BRIEF	EXPD	2135	*	EXPD	2135					2800	-	
PRC-117	COMM	2200R	1460	COMM	2200R	COMM	2200R	COMM	2200R		-	
PRC-150	COMM	2204R	1460	COMM	2204R	COMM	2204R	COMM	2204R	ANTENNA CONSTRUCT MCI	-	
PRC148 / PRC 152	COMM	2205R	1460	COMM	2205R	COMM	2205R	COMM	2205R		-	
ATCT	COMM	2206	*	COMM	2206						-	
RATCF	COMM	2207	*	COMM	2207						-	
AN/PYQ-10	COMM	2208R	1460	COMM	2208R	COMM	2208R	COMM	2208R		-	
5 PARAGRAPH	MMTL	2300R	1460	MMTL	2300R	MMTL	2300R	MMTL	2300R	MOO70 0799 MARINET	-	
ASSAULT ZONE SURVEY	MMTL	2301R	1460	MMTL	2301R	MMTL	2301R	MMTL	2301R	MAWTS-1 ASSAULT ZONE SURVEY PRESENTATION	-	
JTAR	MMTL	2302R	1460	MMTL	2302R	MMTL	2302R	MMTL	2302R		-	
KC130 LZ OPS	MMTM	2310R	1460	MMTM	2310R	MMTM	2310R	MMTM	2310R	8570, 8571, 8573, 8574	-	
HLZ OPS	MMTM	2311R	1460	MMTM	2311R	MMTM	2311R	MMTM	2311R	8570, 8571, 8573, 8574	-	
SMALL UNIT TACTICS	MMTM	2312R	1460	MMTM	2312R	MMTM	2312R	MMTM	2312R	MARINET MOOLDN LAND NAV	-	
DUTIES OF TLC	FWO	2600	*	FWO	2600					6173	-	
DUTIES OF ADC	FWO	2700	*	FWO	2700					6113	-	
ATC CREW BRIEF	FWO	2800	*	FWO	2800					2600, 2700	-	
MISSION SKILL (3000 Phase)												
T&R EVENT INFORMATION			BASIC POI			REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS		CHAINING

T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
MMT LEADER	MMTL	3300R	1460	MMTL	3300R	MMTL	3300R	MMTL	3300R	2300, 2301, 2302, 2005, 2104, 2120, 2122, 2123, 2124	
KC130 LZ OPS	MMTL	3301R	1460	MMTL	3301R	MMTL	3301R	MMTL	3301R	3300	
HLZ OPS	MMTL	3302R	1460	MMTL	3302R	MMTL	3302R	MMTL	3302R	3300	
OPS PLANNING	MMTM	3310R	1460	MMTM	3310R	MMTM	3310R	MMTM	3310R	2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031	
KC130 LZ OPS	MMTM	3311R	1460	MMTM	3311R	MMTM	3311R	MMTM	3311R	3310	
HLZ OPS	MMTM	3312R	1460	MMTM	3312R	MMTM	3312R	MMTM	3312R	3310	
INSTR PROC	TERPS	3500		TERPS	3500						
TERMINAL INST	TERPS	3501		TERPS	3501						
ADMIN POLICIES	TERPS	3502		TERPS	3502						
APPROVAL OF TERMINAL PROC	TERPS	3503		TERPS	3503						
DEV INSTR PROC	TERPS	3504		TERPS	3504					3500, 3501, 3502, 3503	
TERPS CRITERIA	TERPS	3505		TERPS	3505					3500, 3501, 3502, 3503	
PERFORM AS TFD	TFD	3600R	5500	TFD	3600R	TFD	3600R	TFD	3600R	8520, 8521, 8522, 8523, 2206, 2000, 2003, 2004	8520, 8521, 8522, 8523, 2206, 2000, 2003, 2004
PERFORM AS TGC	TGC	3620R	5500	TGC	3620R	TGC	3620R	TGC	3620R	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2000, 2003, 2004	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2000, 2003, 2004
PERFORM AS RFD	RFD	3700R	5500	RFD	3700R	RFD	3700R	RFD	3700R	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2207, 2019, 2000	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2207, 2019, 2000

PERFORM AS RFC	RFC	3710R	5500	RFC	3710R	RFC	3710R	RFC	3710R	8520, 8532, 8533, 8534, 2207, 2018, 2000	8520, 8532, 8533, 8534, 2207, 2018, 2000
CORE PLUS SKILL (4000-Phase)											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
MATC LSN OFFICER	EXPD	4000		EXPD	4000					6500	
CBRN	EXPD	4001		EXPD	4001						
ATC TIMESHARE	EXPD	4002		EXPD	4002					6500	
BDZ OPS	EXPD	4003		EXPD	4003					8720, 8722	
EMCON	EXPD	4004		EXPD	4004					8721	
REAR AREA OPS	EXPD	4012		EXPD	4012						
CONVOY OPS	EXPD	4013		EXPD	4013						
COMSEC	COMM	4015		COMM	4015						
PHYSICAL SEC	COMM	4016		COMM	4016						
COMSEC CALLOUT	COMM	4017		COMM	4017					4015	
TBMCS	C2SYS	4901R	182	C2SYS	4901R	C2SYS	4901R	C2SYS	4901R		
TBMCS	C2SYS	4902R	182	C2SYS	4902R	C2SYS	4902R	C2SYS	4902R		
TBMCS	C2SYS	4903R	182	C2SYS	4903R	C2SYS	4903R	C2SYS	4903R		
TBMCS	C2SYS	4904R	182	C2SYS	4904R	C2SYS	4904R	C2SYS	4904R		
AATWEB	C2SYS	4905R	182	C2SYS	4905R	C2SYS	4905R	C2SYS	4905R		
WEBAD	C2SYS	4906R	182	C2SYS	4906R	C2SYS	4906R	C2SYS	4906R		
ESTAT	C2SYS	4910R	182	C2SYS	4910R	C2SYS	4910R	C2SYS	4910R		
AIRSPACE GRP	C2SYS	4913R	182	C2SYS	4913R	C2SYS	4913R	C2SYS	4913R		
C2PC	C2SYS	4921R	182	C2SYS	4921R	C2SYS	4921R	C2SYS	4921R		
IRC	C2SYS	4922R	182	C2SYS	4922R	C2SYS	4922R	C2SYS	4922R		
BFT	C2SYS	4940R	182	C2SYS	4940R	C2SYS	4940R	C2SYS	4940R		

2.17 T&R SYLLABUS MATRIX. The below matrix summarizes T&R syllabus event information.

MATC ENLISTED T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREC	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
ATC TRAINING (1000 PHASE EVENTS)																			
ATC	1100	Introduce weather as applied to ATC	B	E	G	-	-	-	*		32		0		0	-	-	-	-
ATC	1105	Introduce airspace, navigation, and time as applied in ATC	B	E	G	-	-	-	*		22		0		0	-	-	-	-
ATC	1110	Introduce special use airspace (SUA) used by the military	B	E	G	-	-	-	*		1		0		0	-	-	-	-
ATC	1115	Introduce Navigational Aids	B	E	G	-	-	-	*		22		0		0	-	-	-	-
ATC	1120	Introduce charts and publications used in ATC	B	E	G	-	-	-	*		22		0		0	-	-	-	-
ATC	1125	Introduce communications as applied in ATC	B	E	G	-	-	-	*		6		0		0	-	-	-	-
ATC	1130	Introduce airport design and ATC equipment	B	E	G	-	-	-	*		16		0		0	-	-	-	-
ATC	1135	Introduce general tower procedures	B	E	G	-	-	-	*		22		0		0	-	-	-	-
ATC	1140	Introduce ATC terminal procedures	B	E	G	-	-	-	*		30		0		0	-	-	-	-
ATC	1145	Introduce emergencies and special handling	B	E	G	-	-	-	*		8		0		0	-	-	-	-
ATC	1150	Introduce non-radar procedures	B	E	G	-	-	-	*		14		0		0	-	-	-	-
ATC	1155	Pass the Airmen's written test (AWT)	B	E	G	-	-	-	*		14		0		0	-	-	-	-
ATC	1200	Control Tower indoctrination	B	E	G	-	-	-	*		14		0		0	-	-	-	-
ATC	1205	Control Tower Indoctrination	B	E	S	-	-	-	*		0		40		0	-	-	-	-
ATC	1300	Introduce basic radar knowledge	B	E	G	-	-	-	*		6		0		0	-	-	-	-
ATC	1305	Introduce basic radar services provided by ATC	B	E	G	-	-	-	*		30		0		0	-	-	-	-
ATC	1310	Introduce Airport Surveillance Radar (ASR)	B	E	G	-	-	-	*		14		0		0	-	-	-	-
ATC	1315	Perform Airport Surveillance Radar (ASR) services	B	E	S	-	-	-	*		0		34		0	-	-	-	-
ATC	1320	Introduce Precision Approach Radar (PAR)	B	E	G	-	-	-	*		12		0		0	-	-	-	-

ATC	1325	Perform Precision Approach Radar (PAR) services	B	E	S	-	-	-	*	0	33	0	-	-	-	-	
ATC	1330	Introduce Arrival Control	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
ATC	1335	Perform Arrival Control services	B	E	S	-	-	-	*	0	37	0	-	-	-	-	
TOTAL ATG EVENTS (1000 PHASE EVENTS)										23	293	5	144	0	0		
MATCO TRAINING (1000 PHASE EVENTS)																	
MATCO	1400	Introduce organization of the Marine Corps as it relates to ATC	B	E	G	-	-	-	*	6	0	0	-	-	-	-	
MATCO	1401	Introduce facility management	B	E	G	-	-	-	*	10	0	0	-	-	-	-	
MATCO	1402	Introduce facility publications	B	E	G	-	-	-	*	3	0	0	-	-	-	-	
MATCO	1403	Introduce mishap procedures	B	E	G	-	-	-	*	2	0	0	-	-	-	-	
MATCO	1404	Introduce special use airspace	B	E	G	-	-	-	*	4	0	0	-	-	-	-	
MATCO	1405	Introduce noise abatement	B	E	G	-	-	-	*	2	0	0	-	-	-	-	
MATCO	1406	Introduce personnel certification and revocation	B	E	G	-	-	-	*	6	0	0	-	-	-	-	
MATCO	1407	Introduce the training process	B	E	G	-	-	-	*	6	0	0	-	-	-	-	
MATCO	1408	Introduce the training and readiness manual	B	E	G	-	-	-	*	4	0	0	-	-	-	-	
MATCO	1409	Introduce the resource management system	B	E	G	-	-	-	*	2	0	0	-	-	-	-	
MATCO	1410	Introduce maintenance concepts	B	E	G	-	-	-	*	3	0	0	-	-	-	-	
MATCO	1411	Introduce maintenance inspections	B	E	G	-	-	-	*	3	0	0	-	-	-	-	
MATCO	1412	Introduce aviation maintenance supply and readiness reporting	B	E	G	-	-	-	*	3	0	0	-	-	-	-	
MATCO	1413	Introduce Fleet Marine Force organization	B	E	G	-	-	-	*	4	0	0	-	-	-	-	
MATCO	1414	Introduce the Marine Air Command and Control System	B	E	G	-	-	-	*	9	0	0	-	-	-	-	
MATCO	1415	Introduce MACCS equipment	B	E	G	-	-	-	*	3	0	0	-	-	-	-	
MATCO	1416	Introduce tactical data information link	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
MATCO	1417	Introduce communications security (COMSEC)	B	E	G	-	-	-	*	2	0	0	-	-	-	-	
MATCO	1418	Introduce Marine Air Traffic Control Landing System equipment	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
MATCO	1419	Introduce system initialization data	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
MATCO	1420	Introduce map building	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
MATCO	1421	Introduce training modes	B	E	G	-	-	-	*	8	0	0	-	-	-	-	
MATCO	1422	Introduce Mode II certification	B	E	G	-	-	-	*	1	0	0	-	-	-	-	

MATCO	1423	Introduce the tower and TACAN equipment	B	E	G	-	-	-	*		2		0		0	-	-	-	-
MATCO	1424	Introduce MATCD communication equipment	B	E	G	-	-	-	*		2		0		0	-	-	-	-
MATCO	1425	Introduce MATCD utilities equipment	B	E	G	-	-	-	*		1		0		0	-	-	-	-
MATCO	1426	Introduce the deployment of the MATCD	B	E	G	-	-	-	*		8		0		0	-	-	-	-
MATCO	1427	Introduce the embarkation of the MATCD	B	E	G	-	-	-	*		8		0		0	-	-	-	-
MATCO	1428	Introduce site location and development of the MATCD	B	E	G	-	-	-	*		8		0		0	-	-	-	-
MATCO	1429	Introduce retrograde of the MATCD	B	E	G	-	-	-	*		1		0		0	-	-	-	-
MATCO	1430	Introduce expeditionary airfields	B	E	G	-	-	-	*		4		0		0	-	-	-	-
MATCO	1431	Pass the concept of employment brief	B	E	G	-	-	-	*		2		0		0	-	-	-	-
TOTAL MATCO EVENTS (1000 PHASE EVENTS)										32	149	0	288	0	0				
TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS)										55	442	5	432	0	0				
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
CORE SKILL ORIENTATION (ORNT)																			
ORNT	2000	Demonstrate an understanding of common ATC knowledge applicable to tower and radar	B	-	L	-	-	-	*		0		0		2	8500, 8501, 3502, 8503, 8504, 3505, 8506, 8507, 3508, 8509	-	-	KFAM-800
TOTAL CORE SKILL ORIENTATION STAGE (ORNT)										0	0	0	0	1	2				
EQUIPMENT SKILLS (EQPT)																			
EQPT	2001	Identify equipment organic to the MATCD	B	-	L	-	-	D	*		0		0		1		MATCD	-	
EQPT	2002	Explain the capabilities of the AN/TSQ-120	B	-	L	-	-	D	*		0		0		1		AN/TSQ-120	-	BTC-221
EQPT	2003	Operate fixed control tower structure equipment	B,R	-	L	-	-	D	5500		0		0		1		ATCT	-	BTC-220
EQPT	2004	Operate control tower messaging equipment	B,R	-	L	-	-	D	5500		0		0		1		ATCT	-	
EQPT	2005	Explain the capabilities of the AN/TSQ-216	B	-	L	-	-	D	*		0		0		1		AN/TSQ-216	-	BTC-222
EQPT	2006	Explain the capabilities of the AN/TPN-31A	B	-	L	-	-	D	*		0		0		1		AN/TPN-31A	-	
EQPT	2009	Explain the capabilities of the AN/TPS-73	B	-	L	-	-	D	*		0		0		1		AN/TPS-73	-	

EQPT	2010	Explain the capabilities of the AN/TPN-22	B	-	L	-	-	D	*	0	0	1		AN/TPN-22	-	
EQPT	2011	Explain the capabilities of the AN/TRN-44	B	-	L	-	-	D	*	0	0	1		AN/TRN-44	-	
EQPT	2012	Explain the capabilities of the AN/TSQ-131	B	-	L	-	-	D	*	0	0	1		AN/TSQ-131	-	
EQPT	2018	Operate radar equipment	B,R	-	L	-	-	D	5500	0	0	1		RATCF	-	BRC-230
EQPT	2019	Operate Radar Flight Data (RFD) equipment	B	-	L	-	-	D	*	0	0	1		RATCF	-	
EQPT	2025	Operate the AN/PSN 13A DAGR	B	-	L	-	-	D	*	0	0	1		AN/PSN-13A	-	
EQPT	2026	Operate the AN/TRN-47 TACAN	B	-	L	-	-	D	*	0	0	1		TRN-47, MEP 531	-	
EQPT	2030	Demonstrate knowledge of NVD use in an ATC environment	B,R	-	L	-	-	D	1460	0	0	1	8575	NVD	-	
EQPT	2031	Perform ATC duties while aided	B,R	-	L	-	-	D	1460	0	0	1	2030	NVD	-	
TOTAL EQUIPMENT SKILLS STAGE (EQPT)										0	0	0	0	16	16	
EXPECIONARY (EXPD)																
EXPD	2100	Plan and develop MATCD communications architecture	B	-	S/L	-	-	-	*	0	1	0	2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012	-	-	BMT-380
EXPD	2101	Understand the considerations required to conduct a MATCD site survey.	B	-	L	-	-	-	*	0	0	1	3504	-	-	BMT-388
EXPD	2102	Prepare, request and supervise an FAA flight inspection/certification for a Facility or MATCD	B	-	L	-	-	-	*	0	0	2	8506, 3500	-	-	BMT-381
EXPD	2103	Prepare a Letter of Agreement (LOA)/Memorandum of Understanding (MOU)	B	-	L	-	-	-	*	0	0	1	-	-	-	-
EXPD	2104	Complete and relay a Casualty Evacuation Request	B	-	L	-	-	-	*	0	0	2	-	-	-	-
EXPD	2105	Describe and plot airspace coordinating measures on a map	B	-	L	-	-	-	*	0	0	1	-	-	-	BMT-382
EXPD	2106	Staff a waiver request to required ATC regulations	B	-	L	-	-	-	*	0	0	1	-	-	-	-
EXPD	2120	Observe the configuration and operation of a Tactical Air Command Center (TACC)	B	-	L	-	-	-	*	0	0	1	ACPM Module 8000	TACC	-	BMT-484
EXPD	2121	Observe the configuration and operation of a Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C)	B	-	L	-	-	-	*	0	0	1	ACPM Module 8000	TAOC/EWC	-	BMT-485

EXPD	2122	Observe the configuration and operation of a Direct Air Support Center (DASC)	B	-	L	-	-	-	*	0	0	1	ACPM Module 8000	DASC	-	BMT-486
EXPD	2123	Observe the employment and operation of a Low Altitude Air Defense (LAAD) Section, Battery, and/or Battalion	B	-	L	-	-	-	*	0	0	1	ACPM Module 8000	LAAD SECTION	-	BMT-487
EXPD	2124	Observe the configuration and operation of an Unmanned Aircraft System (UAS) site	B	-	L	-	-	-	*	0	0	1	ACPM Module 8000	UAS	-	BMT-488
EXPD	2125	Understand MATCD maintenance considerations in an operational environment	B	-	L	-	-	-	*	0	0	1	-	AN/TSQ-120	-	BTC-201R
EXPD	2135	Conduct a MATC tactical crew brief	B	-	L	-	-	-	*	0	0	1	2800	AN/TSQ-216	-	BTC-202R
TOTAL EXPEDITIONARY SKILLS STAGE (EXPD)										0	0	1	1	13	15	
COMMUNICATIONS (COMM)																
COMM	2200	Operate UHF/VHF/SATCOM man-pack communication equipment	B,R	-	L	-	-	-	1460	0	0	4	-	-	-	MMT-380
COMM	2204	Operate HF man-pack communication equipment	B,R	-	L	-	-	-	1460	0	0	2	ANTENNA CONSTRUCTION MCI	-	-	-
COMM	2205	Operate intra-team communication equipment	B,R	-	L	-	-	-	1460	0	0	2	-	-	-	-
COMM	2206	Operate control tower communications equipment	B	-	L	-	-	-	*	0	0	2	-	-	-	BTC-221
COMM	2207	Operate radar communications equipment	B	-	L	-	-	-	*	0	0	2	-	-	-	-
COMM	2208	Utilize the AN/PYQ-10 Simple Key Loader (SKL)	B,R	-	L	-	-	-	1460	0	0	2	-	-	-	-
TOTAL COMMUNICATIONS SKILLS STAGE (COMM)										0	0	0	0	9	14	
MATC MOBILE TEAM (MMT)																
MMTL	2300	Develop and issue a five paragraph order	B,R	-	L	-	-	-	1460	0	0	4	2300, 2301, 2302, 2005, 2104, 2120, 2122, 2123 2124	-	-	MMT-382
MMTL	2301	Conduct an Assault Zone Survey and Assessment	B,R	-	L	-	-	-	1460	0	0	2	3300	-	-	MMT-382
MMTL	2302	Complete a Joint Tactical Air Strike Request (JTAR) Form	B,R	-	L	-	-	-	1460	0	0	2	3300	-	-	MMT-382

MMTM	2310	Conduct MMT KC-130 Landing Zone (LZ) Operations	B,R	-	L	-	-	D/N	1460	0	0	2	2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031	-	-	-	
MMTM	2311	Conduct MMT Helicopter Landing Zone (HLZ) Operations	B,R	-	L	-	-	D/N	1460	0	0	2	3310	-	-	-	
MMTM	2312	Conduct Small Unit Tactics associated to MMT operations	B,R	-	L	-	-	D/N	1460	0	0	2	3310	-	-	-	
TOTAL MATC MOBILE TEAM SKILLS STAGE (MMT)										0	0	0	6	14			
FACILITY WATCH OFFICER (FWO)																	
FWO	2600	Comprehend the duties and responsibilities of the TLC	B	-	L	-	-	N/D	*	0	0	24	6173	-	-	-	
FWO	2700	Comprehend the duties and responsibilities of the ADC	B	-	L	-	-	N/D	*	0	0	24	6113	-	-	-	
FWO	2800	Conduct a standard ATC crew brief	B	-	L	-	-	-	*	0	0	1	2600, 2700	-	-	CMT-340	
TOTAL FACILITY WATCH OFFICER SKILLS STAGE (FWO)										0	0	0	6	49			
TOTAL CORE SKILL PHASE (2000 PHASE)										0	0	1	1	45	96		
MISSION SKILL TRAINING (3000 PHASE EVENTS)																	
MATC MOBILE TEAM SKILL TRAINING EVENTS (MMT)																	
MMTL	3300	Perform as an MMT Leader during operational planning	B,R	-	L	-	-	-	1460	0	0	2	2300, 2301, 2302, 2005, 2104, 2120, 2122, 2123, 2124	-	-	MMT-382	
MMTL	3301	Perform as an MMT Leader during KC-130 landing zone operations	B,R	-	L	-	-	D/N	1460	0	0	2	3300	KC130	-	MMT-382	
MMTL	3302	Perform as an MMT Leader during HLZ FARP operations	B,R	-	L	-	-	D/N	1460	0	0	2	3300	FARP	-	MMT-382	
MMTM	3310	Perform as an MMT Member during operational planning	B,R	-	L	-	-	-	1460	0	0	2	2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031	-	-	-	
MMTM	3311	Perform as an MMT Member during KC-130 landing zone operations	B,R	-	L	-	-	D/N	1460	0	0	6	3310	KC130	-	-	
MMTM	3312	Perform as an MMT Member during HLZ FARP operations	B,R	-	L	-	-	D/N	1460	0	0	6	3310	FARP	-	-	
TOTAL MATC MOBILE TEAM SKILLS STAGE (MMT)										0	0	0	6	20			

TERPS SKILL TRAINING EVENTS (TERPS)																	
TERPS	3500	Identify the organizations that support the development, approval and inspection of instrument procedures	B	-	L	-	-	-	*	0	0	2	-	-	-	-	
TERPS	3501	Identify the required publications and their usage in developing Navy/Marine Corps terminal instrument procedures	B	-	L	-	-	-	*	0	0	2	-	-	-	-	
TERPS	3502	Describe the administrative policies which govern the development of terminal instrument procedures	B	-	L	-	-	-	*	0	0	2	-	-	-	-	
TERPS	3503	Describe the general requirements for submission and approval of terminal instrument procedures	B	-	L	-	-	-	*	0	0	4	-	-	-	-	
TERPS	3504	Compile the necessary airport information to develop instrument procedures	B	-	L	-	-	-	*	0	0	4	3500, 3501, 3502, 3503	-	-	-	
TERPS	3505	Explain general TERPS criteria that can be applied to the development of all instrument procedures	B	-	L	-	-	-	*	0	0	8	3500, 3501, 3502, 3503	-	-	-	
TOTAL TERPS SKILLS STAGE (TERPS)										0	0	0	0	23	22		
TOWER SKILL TRAINING EVENTS (TWR)																	
TFD	3600	Perform as a Tower Flight Data (TFD) Controller	B,R	-	L	-	-	-	5500	0	0	1	8520, 8521, 8522, 8523, 2206, 2000, 2003, 2004	-	8520, 8521, 8522, 8523, 2206, 2000, 2003, 2004		
TGC	3620	Perform as a Tower Ground Controller (TGC).	B,R	-	L	-	-	-	5500	0	0	1	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2000, 2003, 2004	-	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2000, 2003, 2004	BTC-223	
TOTAL TOWER SKILLS STAGE (TWR)										0	0	0	0	8	2		
RADAR SKILL TRAINING EVENTS (RDR)																	

RFD	3700	Perform the duties of Radar Flight Data.	B,R	-	L	-	-	-	5500	0	0	1	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2207, 2019, 2000	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2207, 2019, 2000		
RFC	3710	Perform the duties of a Radar Final Controller (RFC).	B,R	-	L	-	-	-	5500	0	0	1	8520, 8532, 8533, 8534, 2207, 2018, 2000	8520, 8532, 8533, 8534, 2207, 2018, 2000	BTC-232	
TOTAL RADAR SKILLS STAGE (RDR)										0	0	0	0	9	2	
TOTAL MISSION SKILL PHASE (3000 PHASE)										0	0	0	0	46	46	
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																
EXPEDITIONARY (EXPD)																
EXPD	4000	Perform as a MATC Liaison Officer	B	-	L	-	-	-	*	0	0	1	6500	-	-	BMT-468
EXPD	4001	Conduct MATCD operations in a Chemical, Biological, Nuclear, Radiological (CBRN) environment	B	-	L	-	-	-	*	0	0	1	-	-	-	BMT-371
EXPD	4002	Conduct ATC Timeshare	B	-	L	-	-	-	*	0	0	80	6500	-	-	-
EXPD	4003	Conduct Base Defense Zone operations	B	-	L	-	-	-	*	0	0	8	8720, 8722	-	-	-
EXPD	4004	Conduct launch and recovery operations in EMCON conditions	B	-	L	-	-	-	*	0	0	4	8721	-	-	-
EXPD	4012	Plan and employ rear area operations	B	-	L	-	-	-	*	0	0	24	-	-	-	BMT-372
EXPD	4013	Plan, brief and execute convoy operations	B	-	L	-	-	-	*	0	0	12	-	-	-	-
TOTAL EXPEDITIONARY SKILLS STAGE (EXPD)										0	0	1	0	7	130	
COMMUNICATIONS (COMM)																
COMM	4015	Describe proper handling and storage of classified materials	B	-	L	-	-	-	*	0	0	2	-	-	-	-
COMM	4016	Ensure physical security of classified areas	B	-	L	-	-	-	*	0	0	2	-	-	-	-
COMM	4017	Extract key material information from EKMS COMSEC callout	B	-	L	-	-	-	*	0	0	2	4015	-	-	-
TOTAL COMMUNICATIONS SKILLS STAGE (COMM)										0	0	0	0	3	6	
COMMAND AND CONTROL SYSTEMS (C2SYS)																

C2SYS	4901	Access TBMC Online Master Help Index	B,R	-	G	-	-	-	182	1	0	0	-	-	-	-
C2SYS	4902	Utilize the TBMC Alerts Service Web Applications	B,R	-	G	-	-	-	182	2	0	0	-	-	-	-
C2SYS	4903	Use TBMC Map Manager	B,R	-	G	-	-	-	182	1	0	0	-	-	-	-
C2SYS	4904	Use TBMC Web Mapping	B,R	-	G	-	-	-	182	1	0	0	-	-	-	-
C2SYS	4905	Utilize the Air Tasking Order/Airspace Control Order(AATWEB) Tool	B,R	-	G	-	-	-	182	1	0	0	-	-	-	BMT-358
C2SYS	4906	Use the Web Based Airspace Deconfliction (WEBAD) Software	B,R	-	G	-	-	-	182	4	0	0	-	-	-	-
C2SYS	4910	Use the Execution Status and Monitoring (ESTAT) Tool	B,R	-	G	-	-	-	182	2	0	0	-	-	-	-
C2SYS	4913	Import an airspace group	B,R	-	G	-	-	-	182	4	0	0	-	-	-	-
C2SYS	4921	Operate C2 Personal Computer (C@PC)	B,R	-	G	-	-	-	182	4	0	0	-	-	-	-
C2SYS	4922	Set up and establish communications utilizing an IRC Network	B,R	-	G	-	-	-	182	1	0	0	-	-	-	-
C2SYS	4940	Operate Blue Force Tracker (BFT) equipment	B,R	-	G	-	-	-	182	4	0	0	-	-	-	-
TOTAL COMMAND AND CONTROL SYSTEMS SKILLS STAGE (C2SYS)										11	25	0	0	0	0	
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										11	25	1	0	10	136	
TOTAL 2000, 3000, AND 4000 PHASE										11	25	2	1	101	278	
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																
INSTRUCTOR UNDER TRAINING (IUT)																
BASIC INSTRUCTOR (BI)																
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*	0	0	2	Recommended by SI or WT1	-	-	-
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*	0	0	1	Recommended by SI or WT1	-	-	-
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*	0	0	2	Recommended by SI or WT1	-	-	-
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										0	0	0	0	3	5	
SENIOR INSTRUCTOR (SI)																
IUT	5100	Understand Aviation T&R program	B	-	G	-	-	D	*	0	0	2	5000, 5010, 5020, 6320	-	-	-
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*	0	0	2	5000, 5010, 5020, 6320	-	-	-

IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*	0	0	2	5000, 5010, 5020, 6320	-	-	-	
IUT	5130	Develop a training plan	B,R	-	G	-	-	D	365	0	0	2	5000, 5010, 5020, 6320	-	-	-	
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	4	8			
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	7	13			
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																	
QUALIFICATIONS (QUAL)																	
QUAL	6103	Qualify as Radar Flight Data	B,R	-	L	-	-	-	5500	0	0	1	3700	-	-	-	
QUAL	6113	Qualify as a Radar Final Controller	B,R	-	L	-	-	-	5500	0	0	1	3710	-	-	QUAL-633	
QUAL	6153	Qualify as a Tower Flight Data Controller	B,R	-	L	-	-	-	5500	0	0	1	3600	-	-	-	
QUAL	6173	Qualify as a Tower Ground Controller	B,R	-	L	-	-	-	5500	0	0	1	3620	-	-	QUAL-624	
QUAL	6203	Qualify as an MMT Member	B,R	-	L	-	-	-	1460	0	0	1	3310, 3311, 3312, 6500	-	-	-	
QUAL	6213	Qualify as an MMT Leader	B,R	-	L	-	-	-	1460	0	0	1	6203, 3300, 3301, 3302	-	-	QUAL-682	
TOTAL QUALIFICATIONS STAGE (QUAL)										0	0	0	6	6			
CERTIFICATIONS (CERT)																	
CERT	6500	Designate as a Facility Watch Officer	B	-	L	-	-	-	*	0	0	1	8551, 8552, 3553, 8554, 8555, 2600, 2700, 2800, 6153, 6173, 6103, 5113, 8000, 8020	-	-	DESG-642	

CERT	6510	Designate as a MATCD Watch Commander	B	-	L	-	-	-	*	0	0	1	8560, 8561, 3562, 8563, 8570, 3571, 8701, 8703, 3704, 8705, 3500, 3501, 3502, 3503, 3504, 3505, 2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012, 2030, 2100, 2101, 2105, 2120, 2121, 2122, 2123, 2124, 2125, 2135, 2300, 6500, 8000, 3020, 8040, 8060, 3080	-	-	DESG-665	
TOTAL CERTIFICATIONS STAGE (CERT)										0	0	0	2	2			
										DESIGNATIONS (DESG)							
DESG	6320	Designate as a BI	B	-	L	-	-	-	*	0	0	1	5000, 5010, 5020	-	-	-	
DESG	6321	Designate as a SI	B	-	L	-	-	-	*	0	0	1	5100, 5110, 5120, 5130, 6320	-	-	-	
DESG	6322	Designate as a WTI	B	-	L	-	-	-	*	0	0	1	6000	-	-	DESG-600	
DESG	6324	Designate as a MMTI	B	-	L	-	-	-	*	0	0	1	6004	-	-	DESG-601	
DESG	6420	Designate as a MATC Facility Officer	B	-	L	-	-	-	*	0	0	1	6500	-	-	DESG-640	
DESG	6430	Designate as a MATCD Commander	B	-	L	-	-	-	*	0	0	1	6500	-	-	DESG-677	
DESG	6440	Designate as a MEU MACG Detachment OIC	B	-	L	-	-	-	*	0	0	1	6500	-	-	-	
TOTAL DESIGNATIONS STAGE (DESG)										0	0	0	6	7			
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS PHASE (RQCD)										0	0	0	14	15			
										ACADEMIC PHASE (8000)							
										ACADEMICS (ACAD)							
ACAD	8500	Comprehend general ATC knowledge	B	-	G	-	-	-	*	1	0	0	-	-	-	-	
ACAD	8501	Comprehend general ATC terminology	B	-	G	-	-	-	*	1	0	0	-	-	-	-	

ACAD	8502	Comprehend the airfield layout	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8503	Comprehend local area/airfield specific information	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8504	Comprehend location of ATC emergency/safety equipment	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8505	Comprehend ATC emergency procedures and policies	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8506	Comprehend the handling of special flight procedures and policies	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8507	Comprehend basic weather knowledge	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8508	Comprehend information contained in local LOAs	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8509	Comprehend knowledge of ATC publications	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8520	Comprehend radio and interphone communications knowledge	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8521	Comprehend aircraft movement data knowledge	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8522	Comprehend flight progress strip knowledge	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8523	Comprehend ATC clearance knowledge and phraseology	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8524	Comprehend airfield lighting knowledge	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8525	Comprehend requirements and phraseology for special VFR ops	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8526	Comprehend visual separation, types of approaches and VFR on top procedures	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8527	Comprehend ATC phraseology/communications as it applies to ground control	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8528	Comprehend proper separation to a vehicle and aircraft movement as it applies to ground control	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8529	Comprehend ATC phraseology/communications as it applies to local control	B	-	G	-	-	-	*		2		0		0	-	-	-	-

ACAD	8530	Comprehend proper separation to vehicle and aircraft movement as it applies to local control	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8531	Comprehend spacing/sequencing/separation in the terminal environment	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8532	Comprehend radar equipment knowledge	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8533	Comprehend radar final control knowledge	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8534	Comprehend basic radar knowledge	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8535	Comprehend radar special operations	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8536	Comprehend arrival/departure/approach control knowledge	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8537	Comprehend non-radar knowledge	B	-	G	-	-	-	*		4		0		0	-	-	-	-
ACAD	8538	Comprehend radar coordination procedures	B	-	G	-	-	-	*		1		0		0	-	-	-	-
ACAD	8539	Comprehend radar clearance knowledge	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8540	Comprehend radar spacing and sequencing procedures	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8550	Comprehend knowledge applicable to supervisor positions	B	-	G	-	-	-	*		4		0		0	-	-	-	-
ACAD	8551	Comprehend the roles and responsibilities of the training chief and the training process	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8552	Comprehend the roles and responsibilities of the tower chief	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8553	Comprehend the roles and responsibilities of the radar chief	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8554	Comprehend aspects of facility management	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8555	Comprehend the roles and responsibilities of the ATC Facility Officer	B	-	G	-	-	-	*		1		0		0	-	-	-	-

ACAD	8560	Comprehend airspace and MATC considerations in regard to the FAA or host nation equivalent	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8561	Comprehend the supply requirements and considerations when deploying the MATCD	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8562	Comprehend the administrative process of embarkation	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8563	Comprehend the process to submit a frequency request	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8570	Comprehend basic knowledge of the MMT	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8571	Comprehend tactical communications terms and procedures	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8572	Comprehend the Marine Corps Rapid Response Planning Process	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8573	Describe the MEU(SOC) Mission	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8574	Comprehend forward arming and refueling (FARP) operations	B	-	G	-	-	-	*		4	0	0	-	-	-	-
ACAD	8575	Complete the MATC NITE Lab course	B	-	G	-	-	N	*		16	0	0	-	NITE Lab	-	-
ACAD	8576	Complete the Antenna Construction and Propagation of Radio Waves MCI	B	-	G	-	-	-	*		2	0	0	-	MCI access	-	-
ACAD	8600	Comprehend the tactical data links that pertain to the MATCD	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8603	Comprehend knowledge of the link-11B	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8604	Comprehend knowledge of the link-16	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8700	Develop plans for MATCD services in support of a FOB	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8701	Comprehend MATCD communications assets and associated capabilities	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8703	Comprehend rear area security planning	B	-	G	-	-	-	*		2	0	0	-	-	-	-
ACAD	8704	Comprehend the relationship between the MATCD and aviation ground support units aboard a FOB	B	-	G	-	-	-	*		1	0	0	-	-	-	-
ACAD	8705	Comprehend key air command and control documents	B	-	G	-	-	-	*		2	0	0	-	-	-	-

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ACAD	8720	Comprehend the integrated air defense system and how it applies to MATCD	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8721	Comprehend electronic protection as it pertains to the MATCD	B	-	G	-	-	-	*		2		0		0	-	-	-	-
ACAD	8722	Comprehend the planning considerations of the BDZ	B	-	G	-	-	-	*		2		0		0	-	-	-	-
TOTAL ACADEMICS STAGE (ACAD)										59	108	0	0	0	0				

2.18 SYLLABUS EVALUATION FORM. An evaluation form is required for any initial or subsequent event training conducted in the Basic or Refresher POIs. If the commanding officer waives an event per chapter 2 of reference (a), the waiver letter shall be placed in section 3 of the PR.

2.18.1 Evaluation Forms. ATC syllabi require the use of two separate evaluation forms as noted below:

(1) NAVAIR 00-80T-114 ATC Training Evaluation Report Forms shall be used when documenting ATC position training. See the NAVAIR 00-80T-114 Chapter 8 for further guidance.

(2) The MACCS Training Form (MTF) shall be used to document all T&R event training. The MTF is located in reference (b) and available online at the MAWTS-1 C-3 website,

<https://www.intranet.tecom.usmc.mil/sites/mawts1/departments1/newc3/shared%20documents/forms/allitems.aspx?RootFolder=%2fsites%2fmawts1%2fdepartments1%2fnewc3%2fShared%20Documents%2fC3%20Course%20Catalog&View=%7b101EF248%2d0CF0%2d4FA2%2d8788%2d3BA9032AE17E%7d>



CHAPTER 3  
MARINE AIR TRAFFIC CONTROLLER  
(7251, 7257, 7252, 7253, 7254, 7291)  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 3  
MARINE AIR TRAFFIC CONTROLLER  
(7251, 7257, 7252, 7253, 7254, 7291)  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

3.0 MARINE AIR TRAFFIC CONTROLLER INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

3.1 MARINE AIR TRAFFIC CONTROLLER TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average Air Traffic Controller. Units should use the model as a point of departure to generate individual training plans.

Enlisted Progression Model					
		One Major Qual	Two Major Quals	7252 7253 7254	7291
7251 AC(A1)	7257	BI MTM ACPM 8000	SI TWS RWS MMTL 8020	TWRC RDRC TNGC MMTI TERPS FWO ACPM 8040 ACPM 8060	NCOIC WTI Ops Chief ACPM 8080
	9 months	3 years	6 years	12 years	16 years

3.2 ABBREVIATIONS

MATC (7251, 7257, 7252, 7253, 7254, 7291)	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
ORNT	ORIENTATION
EQPT	EQUIPMENT
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
MMTL	MMT LEADER
MMTM	MMT MEMBER