

MISSION SKILLS (3000 PHASE)	
MMTL	MMT LEADER
MMTM	MMT MEMBER
TERPS	TERMINAL INSTRUMENT PROCEDURES
CD	CLEARANCE DELIVERY
TFD	TOWER FLIGHT DATA
TGC	TOWER GROUND CONTROLLER
TLC	TERMINAL LOCAL CONTROLLER
RFD	RADAR FLIGHT DATA
RFC	RADAR FINAL CONTROLLER
RADC	RADAR ARRIVAL/DEPARTURE CONTROLLER
RAPC	RADAR APPROACH CONTROLLER
CORE PLUS SKILLS (4000 PHASE)	
EXPD	EXPEDITIONARY
COMM	COMMUNICATIONS
C2SYS	COMMAND AND CONTROL SYSTEMS
DLC	DATA LINK COORDINATOR

3.3 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

3.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

3.4.2 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.

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

3.4.4 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.

3.4.5 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. Air Traffic Controllers that transfer to a new facility will be assigned to the Basic POI, regardless of prior qualification. The timelines associated with subsequent qualification identified in the ATC NATOPS shall apply.

MATCD 7251, 7257, 7252, 7253, 7254, 7291)					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN PROFICIENCY	
BASIC POI		REFRESHER POI			
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
ORNT	ORNT 2000	ORNT		ORNT	
EQPT	EQPT 2001	EQPT		EQPT	
	EQPT 2002				
	EQPT 2003R		EQPT 2003R		EQPT 2003R
	EQPT 2004R		EQPT 2004R		EQPT 2004R

	EQPT 2005R		EQPT 2005R		EQPT 2005R
	EQPT 2006				
	EQPT 2007				
	EQPT 2008				
	EQPT 2009				
	EQPT 2010				
	EQPT 2011				
	EQPT 2012				
	EQPT 2013				
	EQPT 2014				
	EQPT 2015				
	EQPT 2016				
	EQPT 2017				
	EQPT 2018				
	EQPT 2019				
	EQPT 2025				
	EQPT 2026				
	EQPT 2030				
	EQPT 2031				
EXPD	EXPD 2100	EXPD		EXPD	
	EXPD 2101				
	EXPD 2102				
	EXPD 2103				
	EXPD 2104R		EXPD 2104R		EXPD 2104R
	EXPD 2105				
	EXPD 2106				
	EXPD 2120				
	EXPD 2121				
	EXPD 2122				
	EXPD 2123				
	EXPD 2124				
	EXPD 2130				
EXPD 2131					
COMM	COMM 2200R	COMM	COMM 2200R	COMM	COMM 2200R
	COMM 2201				
	COMM 2202				
	COMM 2203				
	COMM 2204R		COMM 2204R		COMM 2204R
	COMM 2205R		COMM 2205R		COMM 2205R
	COMM 2206R		COMM 2206R		COMM 2206R
	COMM 2207R		COMM 2207R		COMM 2207R
MMTL	MMTL 2300R	MMTL	MMTL 2300R	MMTL	MMTL 2300R
	MMTL 2301R		MMTL 2301R		MMTL 2301R
	MMTL 2302R		MMTL 2302R		MMTL 2302R
MMTM	MMTM 2310R	MMTM	MMTM 2310R	MMTM	MMTM 2310R
	MMTM 2311R		MMTM 2311R		MMTM 2311R
	MMTM 2312R		MMTM 2312R		MMTM 2312R
MISSION SKILL (3000 Phase)					

STAGE	CODE	STAGE	CODE	STAGE	CODE
TWR	TFD 3600R	TWR	TFD 3600R	TWR	TFD 3600R
	TFD 3601				
	CD 3610R		CD 3610R		CD 3610R
	CD 3611				
	TGC 3620R		TGC 3620R		TGC 3620R
	TGC 3621				
	TLD 3630R		TLD 3630R		TLD 3630R
	TLC 3631				
RDR	RFC 3710R	RDR	RFC 3710R	RDR	RFC 3710R
	RFC 3711				
	RFD 3700R		RFD 3700R		RFD 3700R
	RFD 3701				
	TADC 3720R		TADC 3720R		TADC 3720R
	TADC 3721				
	RAPC 3730R		RAPC 3730R		RAPC 3730R
	RAPC 3731R		RAPC 3731R		RAPC 3731R
RAPC 3732					
MMT	MMTM 3310R	MMT	MMTM 3310R	MMT	MMTM 3310R
	MMTM 3311R		MMTM 3311R		MMTM 3311R
	MMTM 3312R		MMTM 3312R		MMTM 3312R
	MMTL 3300R		MMTL 3300R		MMTL 3300R
	MMTL 3301R		MMTL 3301R		MMTL 3301R
	MMTL 3302R		MMTL 3302R		MMTL 3302R
ATC	TFD 3600R	ATC	TFD 3600R	ATC	TFD 3600R
	TFD 3601				
	CD 3610R		CD 3610R		CD 3610R
	CD 3611				
	TGC 3620R		TGC 3620R		TGC 3620R
	TGC 3621				
	TLD 3630R		TLD 3630R		TLD 3630R
	TLC 3631				
	RFC 3710R		RFC 3710R		RFC 3710R
	RFC 3711				
	RFD 3700R		RFD 3700R		RFD 3700R
	RFD 3701				
	TADC 3720R		TADC 3720R		TADC 3720R
	TADC 3721				
	RAPC 3730R		RAPC 3730R		RAPC 3730R
	RAPC 3731R		RAPC 3731R		RAPC 3731R
	RAPC 3732				
	TERPS 3500R		TERPS 3500R		TERPS 3500R
	TERPS 3501R		TERPS 3501R		TERPS 3501R
	TERPS 3502R		TERPS 3502R		TERPS 3502R
	TERPS 3503R		TERPS 3503R		TERPS 3503R
	TERPS 3504R		TERPS 3504R		TERPS 3504R
	TERPS 3505R		TERPS 3505R		TERPS 3505R
	TERPS 3506R		TERPS 3506R		TERPS 3506R

MISSION SKILL (4000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
	TERPS 3507R		TERPS 3507R		TERPS 3507R
	TERPS 3508R		TERPS 3508R		TERPS 3508R
	TERPS 3509R		TERPS 3509R		TERPS 3509R
	TERPS 3510R		TERPS 3510R		TERPS 3510R
	TERPS 3511R		TERPS 3511R		TERPS 3511R
	TERPS 3512R		TERPS 3512R		TERPS 3512R
	TERPS 3513R		TERPS 3513R		TERPS 3513R
	TERPS 3514R		TERPS 3514R		TERPS 3514R
	TERPS 3515R		TERPS 3515R		TERPS 3515R
	TERPS 3516R		TERPS 3516R		TERPS 3516R
	TERPS 3517R		TERPS 3517R		TERPS 3517R
	TERPS 3518R		TERPS 3518R		TERPS 3518R
	TERPS 3519R		TERPS 3519R		TERPS 3519R
	TERPS 3520R		TERPS 3520R		TERPS 3520R
	TERPS 3521R		TERPS 3521R		TERPS 3521R
	TERPS 3522R		TERPS 3522R		TERPS 3522R
EXP	EXPD 4000	EXP	EXPD 4000	EXP	EXPD 4000
	EXPD 4001R		EXPD 4001R		EXPD 4001R
	EXPD 4003R		EXPD 4003R		EXPD 4003R
	EXPD 4004		EXPD 4004		EXPD 4004
	EXPD 4010R		EXPD 4010R		EXPD 4010R
	EXPD 4011R		EXPD 4011R		EXPD 4011R
	EXPD 4012		EXPD 4012		EXPD 4012
	EXPD 4013		EXPD 4013		EXPD 4013
COMM	COMM 4015	COMM	COMM 4015	COMM	COMM 4015
	COMM 4016		COMM 4016		COMM 4016
	COMM 4018		COMM 4018		COMM 4018
G2SYS	G2SYS 4901R	G2SYS	G2SYS 4901R	G2SYS	G2SYS 4901R
	G2SYS 4902R		G2SYS 4902R		G2SYS 4902R
	G2SYS 4903R		G2SYS 4903R		G2SYS 4903R
	G2SYS 4904R		G2SYS 4904R		G2SYS 4904R
	G2SYS 4905R		G2SYS 4905R		G2SYS 4905R
	G2SYS 4906R		G2SYS 4906R		G2SYS 4906R
	G2SYS 4910R		G2SYS 4910R		G2SYS 4910R
	G2SYS 4913R		G2SYS 4913R		G2SYS 4913R
	G2SYS 4921R		G2SYS 4921R		G2SYS 4921R
	G2SYS 4922R		G2SYS 4922R		G2SYS 4922R
	G2SYS 4940R		G2SYS 4940R		G2SYS 4940R

3.5 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.

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

MATCD (7257, 7291)		
INSTRUCTOR DESIGNATIONS (5000 PHASE)		
INSTRUCTOR DESIGNATION	TRACKING CODE	EVENTS
BASIC INSTRUCTOR (BI)	6320	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	6321	5100, 5110, 5120, 5130, 6320
MATC MOBILE TEAM INSTRUCTOR (MMTI)	6324	6004
WEAPONS AND TACTICS INSTRUCTOR (WII)	6322	6000
TERPS INSTRUCTOR (TERPSI)	6325	6501, 6800

3.5.2 Qualification

a. 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."

b. Requirements for qualification must be completed every four years to retain the qualification. This does not relieve the individual from the requirements of the ATC NATOPS for monthly proficiency or annual over the shoulder checks.

QUALIFICATION	TRACKING CODE	REQUIREMENTS
TOWER FLIGHT DATA CONTROLLER	QUAL 6150	3600
EXPEDITIONARY TOWER FLIGHT DATA CONTROLLER	QUAL 6151	3600, 6150
CLEARANCE DELIVERY	QUAL 6160	3610
EXPEDITIONARY CLEARANCE DELIVERY	QUAL 6162	3611, 6160
TOWER GROUND CONTROLLER	QUAL 6170	3620
EXPEDITIONARY TOWER GROUND CONTROLLER	QUAL 6171	3621, 6170
TOWER LOCAL CONTROLLER	QUAL 6180	3630, 8000
EXPEDITIONARY TOWER LOCAL CONTROLLER	QUAL 6181	3631, 6180
RADAR FLIGHT DATA	QUAL 6100	3700
EXPEDITIONARY RADAR FLIGHT DATA	QUAL 6101	37,016,100
RADAR FINAL CONTROLLER	QUAL 6110	3710
EXPEDITIONARY RADAR FINAL CONTROLLER	QUAL 6111	3711, 6110
RADAR ARRIVAL/DEPARTURE CONTROLLER	QUAL 6120	3720, 8000
EXPEDITIONARY RADAR ARRIVAL/DEPARTURE CONTROLLER	QUAL 6121	3721, 6120
RADAR APPROACH CONTROLLER	QUAL 6130	3730, 3731, 8000
EXPEDITIONARY RADAR APPROACH CONTROLLER	QUAL 6131	3732, 6130
MATC MOBILE TEAM MEMBER	QUAL 6200	3310, 3311, 3312, 8000
MATC MOBILE TEAM LEADER	QUAL 6210	6200, 3300, 3301, 3302
DATA LINK COORDINATOR	QUAL 6220	4010, 4011, MAJIC CRS

3.5.3 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 course catalog and other applicable directives for instructor designation criteria.

DESIGNATION	TRACKING CODE	REQUIREMENTS
TOWER SUPERVISOR	DESG 6242	8550, 6000, 6010, 6020, 6030, 2102, ACPM 8020
TOWER CHIEF	DESG 6243	8551, 8552, 8554, 8560, 6040, 2103, 2106, 3500, 3501, 3502, 3503, ACPM 8040, ACPM 8060
TRAINING CHIEF	DESG 6244	8551, 8552, 8553, 8554, 6040, 6140, 2103, 2106, ACPM 8040, ACPM 8060
MCAS NCOIC	DESG 6245	8551, 8554, 8560, 2103, 2106, 3500, 3501, 3502, 3503, ACPM 8080
DETACHMENT OPERATIONS/TRAINING CHIEF	DESG 6250	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060
MACS OPERATIONS CHIEF	DESG 6251	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080
MATCD NCOIC	DESG 6252	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080
RADAR SUPERVISOR	DESG 6240	8550, 2102, 8020
RADAR CHIEF	DESG 6241	8551, 8553, 8554, 8560, 6140, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060
FACILITY WATCH OFFICER	DESG 6401	8551, 8552, 8553, 8554, 8555
TERPS SPECIALIST	DESG 6501	3512, 3513, 3514, 3515, 3516, 3517, 3518

3.5.4 CERTIFICATIONS. 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.

3.6 AIR TRAFFIC CONTROLLER PROGRAMS OF INSTRUCTION (POI)

3.6.1 Basic POI

MATCD (7251, 7257, 7252, 7253, 7254, 7291)		
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

3.6.2 Refresher POI. The Refresher POI shall apply only to air traffic controllers returning to a station where a previous qualification was held, and when absence exceeds the requirements of the ATC NATOPS. Controllers previously qualified but assigned to a new station will be assigned to the basic POI.

MATCD (7251, 7257, 7252, 7253, 7254, 7291)		
REFRESHER POI		
WEEKS	PHASE OF INSTRUCTION	UNIT
VARIES	CORE SKILL TRAINING	MACS/ATC FACILITY
VARIES	MISSION SKILL TRAINING	MACS
VARIES	CORE PLUS TRAINING	MACS

3.7 SYLLABUS NOTES. The purpose of this section is to provide a standardized training program for all MATC Marines. 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). Deployed detachments desiring to issue Necessary MOS (NMOS) will submit a request through Headquarters Marine Corps Aviation Programs Expeditionary Enablers (APX) 25 to CNO N885F.

3.7.1 Environmental Conditions Matrix

Environmental Conditions	
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.	

3.7.2 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.	

3.7.3 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	Aviation Ground
Basic	B	Initial MOS Training
Refresher	R	Return to community from non (MOS/Skill) associated tour
Maintain	M	All individuals who have attained CSP/MSP/PPP by initial POI assignment are re-assigned to the M POI to maintain proficiency.

3.7.4 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.)

3.7.5 Enlisted Air Traffic Control Training (Skill) Progression and Qualification Standards.

Note: Only HQMC/APX-25 is authorized to modify or delete any portion of this paragraph (3.7.5) or its subparts.

Air traffic control is a low density-high demand occupational field. As such, specific skills, qualifications and training timelines have been established in order to provide ATC facilities and ATC detachments with qualified and proficient air traffic controllers to meet core MET requirements.

MOS Skills Progression. PMOS 7257 qualification is not the end-state for Marine Air Traffic Controllers. Marine Air Traffic Controllers are required to progress and gain additional skills and qualifications throughout their careers. In order to fulfill core MET requirements the following MOS skill progression timeline is mandated per MARADMIN 230/04 to meet MOS requirements in MCBul 1200:

(1) PMOS 7257 equates to two (2) position qualifications in the control tower (Ground Control and Flight Data) or two (2) position qualifications in radar (Radar Final Control and Radar Flight Data) and shall be achieved by MOS 7251 Air Traffic Controller-Trainees within nine (9) months of assignment at their first ATC facility.

(2) All PMOS 7257 Air Traffic Controllers shall achieve one (1) of the following NMOS skill designations: 7252 Air Traffic Controller-Tower (Local Controller), 7253 Air Traffic Controller-Radar Arrival/Departure Controller, or 7254 Air Traffic Controller-Radar Approach Controller, within three (3) years of graduation from NATTC ACA(1) school. As a prerequisite to attaining this first qualification, the trainee must complete ACPM module 8000.

(3) All PMOS 7257 Air Traffic Controllers shall achieve two (2) of the following NMOS skill designations: 7252, 7253, or 7254, within nine (9) years of graduation from NATTC ACA(1) school. The prerequisite for the second major qualification is ACPM Module 8020.

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(4) All PMOS 7257 Air Traffic Controllers shall achieve all three (3) of the following NMOS skill designations: 7252, 7253, and 7254, within twelve (12) years of graduation from NATTC Air Traffic Control Course. The final prerequisite for ACPM tied to qualifications is Module 8040.

Note: The ATC MOS progression and qualification standards listed above (307.2.b (2), (3), (4)) do not apply to the Marine Corps Reserve. Waiver packages should not be submitted on behalf of reserve controllers who have successfully completed their initial active duty training and obligations, and have returned to a drilling status.

Waiver of Training (Skill) Progression and Qualifications Standards. Marine Air Traffic Controllers who fail to meet the above MOS training progression timeline standards shall be processed for MOS revocation in accordance with the NAVAIR 00-80T-114 Air Traffic Control NATOPS Manual. Only HQMC/APX-25 (OccFld Sponsor) can approve waivers to the above training progression timelines or direct reassignment to another occupational field. All requests for waivers shall be submitted to HQMC/APX-25 via naval letter and shall contain the following:

(1) Controller Evaluation Board results with recommendation for MOS revocation, training continuation or utilizing in current capacity until EAS or retirement.

Note: If recommended for "utilize in current capacity," appropriate Fitness Report comments or Pro/Con marks are directed to reflect failure to meet MOS Skills Progression requirements per paragraph 307.3.b above.

(2) Brief ATC history of the Marine from attachment at first ATC facility to present.

(3) Additional information that is pertinent to the waiver request.

(4) ATC training plan to include a specific timeline, end date, and steps for the Marine to obtain the required MOS position qualification(s) outlined in this Manual.

Promotion Eligibility. Enlisted SNCO promotions are done through a standardized selection board process which ensures the best and most fully qualified are selected for promotion. Within ATC, "best and most fully qualified" is tied directly to MOS progression or for those granted a waiver by HQMC/APX-25 as outlined in this Manual and MARADMIN 230/04. As such, commanders must document failure to comply with the training progression timeline. This will help ensure Marine Corps SNCO selection boards can identify those Marines who are the "best and most fully qualified."

3.8 CORE SKILL INTRODUCTION TRAINING (1000)

3.8.1 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 (ATC) Course, the Marine receives MOS 7251 and possesses the same certification obtained by FAA controller graduates from the National FAA Air Traffic Control School.

3.8.2 General

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

3.8.2.2 Academic Training. Air Traffic Controller (ACT) Course, NAS Pensacola, FL.

3.8.2.3 Stage. Air Traffic Controller (ATC)

PAR NO.	STAGE NAME
383	AIR TRAFFIC CONTROL (ATC)

3.8.2.4 Total Training Events

- (1) Live - 23 events, 323 hours
- (2) Simulated - 5 events, 152 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

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

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

2 Feb 12

Requirement. Describe SUA and controller responsibilities within each.

Performance Standard. Pass a comprehensive review of lesson with a minimum of 70% accuracy.

Reference. JO 7110.65

ACAD-1115 22.0 B L

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

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

Goal. Introduce communications as applied in ATC.

Requirement. Describe communication procedures used in ATC.

Performance Standard. Pass a comprehensive review of lesson with a minimum of 70% accuracy.

Reference. JO 7110.65

ATC-1130 16.0 B L

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

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

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

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

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

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

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 RDR-1330

Reference. JO 7110.65.

ATC-1440 4.0 B L

Goal. Introduce the Marine Air Ground Task Force (MAGTF) and the Six Functions of Marine Aviation.

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

Performance Standard. Demonstrate a general understanding through an oral comprehensive review.

Reference. Marine Corps Warfighting Pub. 3-2 series, Aviation Operations.

ATC-1445 4.0 B L

Goal. Introduce the Marine Air Command and Control System Overview.

Requirement. Describe the units that comprise the Marine Air Command and Control System to include:

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

Performance Standard. Demonstrate a general understanding through an oral comprehensive review.

Reference. Marine Corps Warfighting Pub. 3-2 series, Aviation Operations.

ATC-1450 8.0 B L

Goal. Introduce the Marine Air Traffic Control and Landing System (MATCALs).

Requirement. Describe the basic subsystems and capabilities of the MATCALs, to include:

1. AN/TPS-73 Air Traffic Control Subsystem (ATCS).
2. AN/TPN-22 Automatic Landing System (ALS).
3. AN/TSQ-131 Control and Communication Subsystem (CCS).
4. AN/TPN-31A, Air Traffic Navigation Integration and Coordination System (ATNAVICS).

Performance Standard. Demonstrate a general understanding through an oral comprehensive review.

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.

ATC-1455 8.0 B 1 CCS S

Goal. Introduce the Training Modes for the Marine Air Traffic Control and Landing System (MATCALs).

Requirement. Operate the MATCALs equipment in trainee and instructor modes, while observing all safety precautions.

Performance Standard. Demonstrate a general understanding through the proper execution of the following functions:

1. Load FOC software into MMD via Magnetic Tape Unit (MTU).
2. Load FOC software into MMD via Serial Data Bus (SDB).
3. Set up an MMD for surveillance usage (ADC).
4. Set up an MMD for a Final Controller (FC) Trainee.
5. Set up a Final Control (FC) simulation scenario.
6. Set up a Arrival Control (ADC) simulation scenario.

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

ATC-1460 8.0 B L

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

Requirement. Describe the capabilities of the following MATCD Equipment:

1. AN/TSQ-120B, Air Traffic Control Central.
2. AN/TSQ-216, Remote Landing Site Tower.

Performance Standard. Demonstrate a general understanding through an oral comprehensive review.

Reference.

1. EE100-UQ-OMI-010, AN/TSQ-120B, Air Traffic Control Central.
2. RLST Technical Manual AE-RLST-OMI-200.

ATC-1465 6.0 B L

Goal. Introduce the Marine Air Traffic Control Detachment (MATCD) Navigational Aid Equipment.

Requirement. Describe the capabilities of the following MATCD Equipment:

1. AN/TRN-44A, Tactical Air Navigational Aid (TACAN).
2. AN/TRN-46, Distance and Measuring Equipment (DAME).

Performance Standard. Demonstrate a general understanding through an oral comprehensive review.

Reference.

1. NAVELEX 0913-LP-000-5010 TACAN AN/TRN-44A Technical Manual, Vol 1.

Requirement. Complete the locally developed orientation training block.

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.

3.9.4 Equipment (EQPT)

3.9.4.1 Purpose. To provide the trainee 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 aspects of the MATCD and ATC Facility.

3.9.4.2 General.

Total Training Events.

- (1) Live / Simulated - 22 events, 24 hours;
- (2) Simulator - 1 events, 1 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

Goal. Explain the capabilities of the AN/TSQ-120.

Requirement. Given the TSQ-120, 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. Id and 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. Environmental limitations.

Performance Standard. Complete the required 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-2003 1.0 (1460) B,R 1 ATCT L

Goal. Operate fixed control tower structure equipment.

Requirement. While in a fixed tower and given the required equipment, operate the following:

1. NAVAID monitors.
2. Airfield lighting console/computer.
3. Console and cab lighting.
4. Cooling and heating controls.
5. Emergency power cutoff.

Performance Standard. Complete the required 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-2004 1.0 (1460) B,R 1 ATCT L

Goal. Operate control tower messaging equipment.

Requirement. While in a control tower and given the required equipment, configure or operate the following (as applicable):

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 (1460) B,R 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.
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. Applicable Technical Manual.
2. MCWP 3-25.8.

EQPT-2007 1.0 (*) B 1 AN/TPN-31A L

Goal. Configure the AN/TPN-31A for operations.

Requirement. Given an operational AN/TPN-31A, navigate the system menus to:

1. Initiate self-diagnostics test.
2. Interpret displayed system faults.
3. Set-up operating position for final control mode.
4. Set-up operating position for arrival/departure control mode.

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

Instructor. BI.

Prerequisite. 2006.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EQPT-2008 1.0 (*) B 1 AN/TPN-31A L

Goal. Configure video maps for the AN/TPN-31A.

Requirement. Given an operational AN/TPN-31A and a scenario:

1. Enter video map creation mode on the operating position.
2. Create video maps to support the following:
 - a. Minimum Vectoring Altitude Chart (MVAC).
 - b. Airspace boundaries.
 - c. Airways and/or Routes.
 - d. Airport Surveillance Radar approach (ASR) procedures.
 - e. Fixes.
 - f. Obstructions.
3. Save video maps to the applicable device.

4. Load and activate video maps from the applicable device for operations.

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

Instructor. BI.

Prerequisite. 2006, 2007.

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-2013 1.0 (*) B 1 AN/TSQ-131 L

Goal. Configure the AN/TSQ-131 system initialization (SI) data.

Requirement. Given an operational AN/TSQ-131 and scenario:

1. Collect SI data necessary to configure the CCS.
2. Configure the MMD to SI Data Entry mode.
3. Input the necessary SI Data to configure the CCS.
4. Save the recorded data to the CMTU.
5. Activate the SI data.

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

Instructor. BI, Communications Technician.

Prerequisite. 2009, 2011, 2012.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EQPT-2014 1.0 (*) B 1 AN/TSQ-131 L

Goal. Load the system initialization (SI) data for the AN/TSQ-131.

Requirement. Given an operational AN/TSQ-131 and a scenario:

1. Insert SI data tape into the CMTU.
2. Configure the MMD to SI Data Entry mode.
3. Load the SI data.
4. Activate the SI data.

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

Instructor. BI.

Prerequisite. 2013.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EQPT-2015 1.0 (*) B 1 AN/TSQ-131 L

Goal. Configure video maps for the AN/TSQ-131.

Requirement. Given an operational AN/TSQ-131 and a scenario:

1. Enter video map creation mode on the operating position.
2. Create video maps to support the following:
 - a. Minimum Vectoring Altitude Chart (MVAC).
 - b. Airspace boundaries.

- c. Airways and/or Routes.
 - d. ASR approach procedure.
 - e. Fixes.
 - f. Obstructions.
3. Save video maps to the Applicable device.
 4. Load and activate video maps from the applicable device for operations.

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

Instructor. BI.

Prerequisite. 2009, 2011, 2012.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EQPT-2016 1.0 (*) B 1 AN/TSQ-131 L

Goal. Configure the AN/TSQ-131 for operations.

Requirement. Given an operational AN/TSQ-131, navigate the system menus to:

1. Enter MT mode and display system status.
2. Enter FC mode and configure position for final control.
3. Enter FC Trainee mode and configure position for simulations.
4. Enter FC instructor mode and configure position for simulations.
5. Enter ADC mode and configure position for arrival/departure control.
6. Enter ADC Trainee mode and configure position for simulations.
7. Enter ADC instructor mode and configure position for simulations.

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

Instructor. BI.

Prerequisite. 2009, 2011, 2012.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EQPT-2017 1.0 (*) B 1 AN/TSQ-131 S

Goal. Control aircraft using the simulation mode of the AN/TSQ-131.

Requirement. Using the AN/TSQ-131 under the supervision of a BI, control simulated aircraft in the following:

1. Arrival mode.
2. Departure mode.

3. Final control mode.

Performance Standard. Complete the requirement items IAW the reference for each mode listed.

Instructor. BI.

Prerequisite. 2009, 2011, 2012, 2016.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

EOPT-2018 1.0 (1460) B,R 1 RATCF L

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.

EOPT-2019 1.0 (1460) B,R 1 RATCF L

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.

EQPT-2025 2.0 (1460) B,R 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 Training.
3. DAGR Technical Manual 11-5820-1172-13.

EQPT-2026 2.0 (1460) B,R 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.

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. 8575.

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.

7. Support equipment.
8. Power requirements.
9. Host site limitations.
10. Wind survival tie-down procedures.

Performance Standard. Complete the requirement steps IAW the reference. The instructor will question and mentor the trainee throughout the instruction of the event.

Instructor. SI (MATCD Commander, MATCD SNCOIC).

Prerequisite. 3504.

Reference.

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

EXPD-2102 2.0 (*) B L

Goal. Prepare, request, and supervise an FAA 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.

Prerequisite. 3500, 8506.

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

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 (1460) B,R 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, UMCI

Prerequisite. 8000.

Reference. MCWP 3-42.1, UAS Handbook.

EXPD-2130 1.0 (*) B AN/TSQ-120 1 L

Goal. Operate the Expeditionary Control Tower (AN/TSQ-120) and associated equipment.

Requirement. Locate and operate the following equipment:

1. Power distribution panel.
2. Internal and external lights.
3. Aldis lamp.
4. Overhead speaker and adjustment knobs.
5. Digital clock.
6. Thermostat.
7. Pressure indicator.
8. Wind indicator.
9. TELCO (intercom/landline).
10. VHF and UHF tuneable radios.
11. Radio selector buttons.
12. Speaker selector switch.
13. ATIS.
14. Crash alarm.
15. Fire Detector.
16. Operator Control Unit (OCU).

Performance Standard. In an OJT environment, complete the requirement steps.

Instructor. BI.

Prerequisite. 2002.

Reference. MCWP 3-25.8.

EXPD-2131 1.0 (*) B AN/TSQ-216 1 L

Goal. Operate the Remote Landing Site Tower (AN/TSQ-216) and associated equipment.

Requirement. Locate and operate the following equipment:

1. Power distribution panel.
2. Internal and external lights.
3. Aldis lamp.
4. Overhead speaker and adjustment knobs.
5. Digital clock.
6. ECU.
7. Laptop Computer.
8. Wind direction and speed indicator.
9. TELCO (intercom/landline).
10. VHF and UHF tuneable radios.
11. Radio selector buttons.
12. Speaker selector switch.
13. ATIS.
14. OCU.
15. Antennas.
16. Generators.

Performance Standard. In an OJT environment, complete the requirement steps.

Instructor. BI.

Prerequisite. 2005.

Reference. MCWP 3-25.8.

3.9.6 Communications (COMM)

3.9.6.1 Purpose. To provide the trainee the basic knowledge on the operation of MATCD have the knowledge and be able to provide reliable communications while applying applicable EKMS, COMSEC procedures. This stage provides a controller with the required knowledge and skills in order to utilize all communications equipment and EKMS/COMSEC protocol associated with the MATCD.

3.9.6.2 General.

Total Training Events.

- (1) Live / Simulated - 9 events, 19 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-2201 2.0 (*) B 1 AN/ARC-210 L

Goal. Operate the AN/ARC-210 UHF/VHF Radio.

Requirement. Given one AN/ARC-210, conduct the following:

1. Identify the characteristics of the listed radio as follows:
 - a. State the proper nomenclature.
 - b. State the frequency spectrum.
 - c. State expected range and factors affecting range.
 - d. State the power requirements.
 - e. State the associated crypto logical equipment.
 - f. Identify the owning unit.
 - g. Explain how a MATCD uses this radio.
2. Set up the UHF/VHF radio.
 - a. Input frequencies.
 - b. Toggle frequencies.
 - c. Scan frequencies.
3. Conduct a radio check.
 - a. Establish cipher text communications.
 - b. Establish plain text communications.

Performance Standard. Complete the requirement items IAW the reference. Accurately state all information in item 1. Instructor will verify the equipment is properly setup and radio checks are successful.

Instructor. BI.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

COMM-2202 2.0 (*) B 1 CCS L

Goal. Operate the radios organic to the CCS.

Requirement. Given an operational CCS, conduct the following for each organic radio:

1. Identify the following characteristics:
 - a. Nomenclature.
 - b. Frequency spectrum.
 - c. Expected range and factors affecting range.
 - e. Associated crypto logical equipment.
 - g. Doctrinal nets MATCD would commonly use for specified equipment.
2. Input the frequencies.

3. Conduct a radio check.
 - a. Establish cipher text communications.
 - b. Establish plain text communications.

Performance Standard. Complete the requirement items IAW the reference. Instructor will verify if communications check was successfully completed. Organic radios include:

1. AN/GRC-171 (V) (TADIL-C).
2. AN/GRC-211.
3. AN/URC-94 (V).
4. AN/VRC-82.

Instructor. BI.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

COMM-2203 1.0 (*) B 1 CCS/1 TSQ-120 L

Goal. Troubleshoot communication problems on the OCU associated with the CCS and TSQ-120.

Requirement. Given an operational OCU and a scenario with verifiable communications problems:

1. Troubleshoot the OCU by conducting the following:
 - a. Ensure headset is properly connected to communications jack.
 - b. Ensure the OCU is properly powered.
 - c. Ensure the frequency selectors are correctly activated.
2. Correct any of the above problems.
3. If unable to correct, notify the watch supervisor.

Performance Standard. Complete the requirement items IAW the reference. Communication problems should have been corrected or watch standard should have been notified with correct assessment of the problem.

Prerequisite. 2201, 2202.

Instructor. BI.

Reference.

1. Applicable Operator's Manual.
2. Applicable Technical Manual.

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.

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 (1460) B,R 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 (1460) B,R 1 RATCF L

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

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.

3.9.7 Marine Air Traffic Control Mobile Team (MMT)

3.9.7.1 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.

3.9.7.2 General.

2 Feb 12

Prerequisite. None.

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

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

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 was completed without error. Instructor will validate that the information supports landing zone criteria. USAF Assault Zone Survey Course satisfies the event requirement.

Instructor. MMTI.

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

Reference.

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.

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

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.

3.10 MISSION SKILL TRAINING (3000)

3.10.1 Purpose. This phase provides for the trainee to achieve required proficiency on ATC positions. Once the trainee demonstrates the ability to perform the duties of an ATC position proficiently, that trainee is eligible to be recommended for evaluation for qualification on that position. ATC

positions can be in an ATCF, MATCD, MMT; TERPS training is also included in this phase.

3.10.2 General

3.10.2.1 Prerequisite. Attain core skill proficiency for the position being trained in. Possess a current medical clearance, valid ATCS, and security clearance.

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

3.10.2.3 Academic Training. Detachments/ATCFs shall develop written examinations (for events 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 requirements of all events in this stage or to assess each event separately.

3.10.2.4 Refresher Training. A qualified controller is required to conduct refresher training IAW annual over-the-shoulder requirements as prescribed in the NAVAIR 00-80T-114. If the controller has been absent from an ATC billet for 48 months or longer, upon return to an appropriate ATC billet, the controller will complete the R-coded events for the applicable core and/or mission skill(s) that led to the position qualification trying to reattain, if returning to the same facility.

3.10.2.5 Stages. The following stages are included in the Mission Skill Phase of training.

PAR NO.	STAGE NAME
3.10.3	MATC MOBILE TEAM (MMT)
3.10.4	Terminal Instrument Procedures (TERPS)
3.10.5	Tower (TWR)
3.10.6	Radar (RDR)

3.10.3 Marine Air Traffic Control Mobile Team (MMT)

3.10.3.1 Purpose. To train controllers to a required level of proficiency for MMT qualifications. This stage provides the knowledge and mission skills in MMT tactics, techniques and procedures as to accomplish the MMT mission. Training includes how to conduct expeditionary, austere air traffic control operations and familiarization with equipment organic to the MMT. Training will be conducted under the direct supervision of qualified instructors in an OJT environment.

3.10.3.2 General.

Prerequisite. 6150, 6170.

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, 2300, 2301, 2302.

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:

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

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 D/N

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. MMT Leader.

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

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.

3.10.4 Terminal Instrument Procedures (TERPS)

3.10.4.1 Purpose. To train controllers to a required level of proficiency to be eligible to undergo evaluation for TERPS Specialist qualification. This stage provides a functional understanding of TERPS process and

requirements to develop the skills needed to perform as a TERPS specialist in an air traffic control facility or detachment, an ATC T&R Office, or Naval Flight Information Group. Training will be conducted under the direct supervision of qualified instructors in a classroom environment.

3.10.4.2 General

Total Training Events.

- (1) Live / Simulated - 23 events, 126 hours;
- (2) Simulator - 0 events, 0 hours.

TERPS-3500 2.0 (365) B,R L

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.
- 3. Host nation authorities.
- 4. Naval Flight Information Group (NAVFIG).
- 5. FAA Flight Standards Services, AFS-420.
- 6. FAA Flight Inspection 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.

TERPS-3501 2.0 (365) B,R L

Goal. Identify the required publications and their usage in developing Navy/Marine Corps terminal instrument procedures.

Requirement. Describe the usage of the following manuals in instrument procedure development and approval:

- 1. OPNAVINST 3722.16.
- 2. NAVAIR 00-80T-114.
- 3. FAAC 8260.19.
- 4. NAVAIR 51-50-AAA-2.
- 5. FAAC 7130.3.
- 6. FAA Handbook 8200.1.

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

Instructor. TERPSI.

Reference.

- 1. OPNAVINST 3722.16.

2. NAVAIR 00-80T-114.
3. FAAO 8260.19.
4. NAVAIR 51-50-AAA-2.
5. FAAO 7310.3.
6. FAA Handbook 8200.1.

TERPS-3502 2.0 (365) B,R L

Goal. Describe the administrative policies which govern the development of terminal instrument procedures.

Requirement. Identify administrative policies governing procedure development, to include:

1. Eligibility, approval, and retention.
2. Responsibility and jurisdiction.
3. Establishment of instrument procedures.
4. Coordination for approval of instrument procedures.
5. Identification of procedures.
6. Publication of procedures.

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 (365) B,R L

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 (365) B,R L

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 (WGS-84).
 - 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 (365) B,R L

Goal. Explain general instrument 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.
4. Circling approach evaluation.
5. Obstacle evaluation.
6. Terminal fix usage.
7. Takeoff and landing minima.
8. Helicopter procedure general criteria.
9. Approach lighting equivalent systems.
10. Effects of airfield lighting/markings on procedure.

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

Instructor. TERPSI.

Prerequisite. 3500, 3501, 3502, 3503.

Reference.

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

TERPS-3506 4.0 (365) B,R L

Goal. Obtain knowledge required to construct a holding pattern.

Requirement. Identify the criteria required to construct a holding pattern to include:

1. Pattern template selection.
2. Pattern template construction.
3. Leg length selection.
4. NAVAID use limitations.

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

Instructor. TERPSI.

Performance Standard. Develop a MVAC which provides required obstacle clearance, airspace requirements and supports the development of terminal instrument procedures.

Instructor. TERPSI.

Prerequisite. 3507.

Reference.

1. OPNAVINST 3722.16.
2. FAA Policy N8260.64.
3. FAAO 8260.19D.

TERPS-3513 4.0 (180) B,R L

Goal. Construct an ASR procedure.

Requirement. Given a location, develop an ASR procedure.

Performance Standard. Develop an ASR procedure which meets required obstacle clearance and provides lowest possible weather minima.

Instructor. TERPSI.

Prerequisite. 3508.

Reference.

1. OPNAVINST 3722.16.
2. FAA Policy N8260.64.
3. FAAO 8260.19D.

TERPS-3514 4.0 (180) B,R L

Goal. Construct a PAR procedure.

Requirement. Given a location, develop a PAR and corresponding PAR W/O GS procedure.

Performance Standard. Develop a PAR and PAR W/O GS procedure which meets required obstacle clearance and provides lowest possible weather minima.

Instructor. TERPSI.

Prerequisite. 3509.

Reference.

1. OPNAVINST 3722.16B Change 15.
2. FAAO N8260.65.
3. OPNAVINST 3722.16.
4. FAAO 8260.19D.

TERPS-3515 4.0 (180) B,R L

Goal. Construct a TACAN procedure.

Requirement. Given a location, develop a TACAN approach procedure.

Performance Standard. Develop a TACAN approach procedure which meets required obstacle clearance and provides lowest possible weather minima.

Instructor. TERPSI.

Prerequisite. 3506, 3510.

Reference.

1. OPNAVINST 3722.16.
2. FAAO 8260.19D.
3. FAAO 7130.3A.

TERPS-3516 4.0 (180) B,R L

Goal. Evaluate diverse departure procedures.

Requirement. Given a location, evaluate the airport for diverse departures.

Performance Standard. Evaluate an airport for diverse departures under the supervision of an OJTI.

Instructor. TERPSI.

Prerequisite. 3511.

Reference.

1. OPNAVINST 3722.16.
2. FAAO 8260.46.
3. FAAO 8260.19D.

TERPS-3517 4.0 (180) B,R L

Goal. Develop a standard instrument departure procedure.

Requirement. Given a location, develop a standard instrument departure procedure.

Performance Standard. Develop a standard instrument departure under the supervision of an OJTI which meets required obstacle clearance.

Instructor. TERPSI.

Prerequisite. 3511, 3516.

Reference.

1. OPNAVINST 3722.16.
2. FAAO 8260.46.
3. FAAO 8260.19D.

TERPS-3518 4.0 (180) B,R L

Goal. Conduct an obstacle evaluation based on notice of proposed construction.

Admin Notes. This stage consists of TWR codes specific to the position being trained to in the tower. These codes include:

- (a) Tower Flight Data (TFD)
- (b) Clearance Delivery (CD)
- (c) Tower Ground Controller (TGC)
- (d) Tower Local Controller (TLC)

Total Training Events.

- (1) Live / Simulated - 8 events, 8 hours;
- (2) Simulator - 0 events, 0 hours.

TFD-3600 1.0 (1460) B,R L

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

Requirement. In a control tower, perform the duties and responsibilities of a TFD Controller.

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

Prerequisite. 2000, 2003, 2004, 2206, 8520, 8521, 8522, 8523.

Instructor. BI

Reference.

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

TFD-3601 1.0 (*) B L

Goal. Perform as an expeditionary Tower Flight Data (TFD) Controller.

Requirement. Perform the duties and responsibilities of a TFD Controller in an expeditionary environment.

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

Prerequisite. 2001, 2002, 2005, 2122, 2123, 2124, 3600, 8701.

Instructor. BI

Reference.

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

CD-3610 1.0 (1460) B,R L

Goal. Perform the duties of a Clearance Delivery (CD).

Requirement. In a control tower, perform the duties and responsibilities of a Clearance Delivery.

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

Prerequisite. 2000, 2003, 2004, 2206, 8520, 8522, 8523.

Instructor. BI

Reference.

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

CD-3611 1.0 (*) B L

Goal. Perform as an expeditionary Clearance Delivery (CD).

Requirement. Perform the duties and responsibilities of a CD Controller in an expeditionary environment.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a CD in an expeditionary environment.

Prerequisite. 2001, 2002, 2005, 2123, 2124, 3610, 8701.

Instructor. BI

Reference.

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

TGC-3620 1.0 (1460) B,R L

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.

TGC-3621 1.0 (*) B L

Goal. Perform as an expeditionary Tower Ground Controller (TGC).

Requirement. Perform the duties and responsibilities of a Tower Ground Controller in an expeditionary environment.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as TGC in an expeditionary environment.

Prerequisite. 2001, 2002, 2005, 2030, 2031, 2123, 2124, 2130, 2131, 2200, 2201, 2203, 2204, 3620, 8701.

Instructor. BI

Reference.

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

TLC-3630 1.0 (1460) B,R L

Goal. Perform the duties of a Tower Local Controller (TLC).

Requirement. In a control tower, perform the duties and responsibilities of a Tower Local Controller.

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

Prerequisite. 3600, 3620, 8525, 8526, 8529, 8530, 8531.

Instructor. BI

Reference.

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

TLC-3631 1.0 (*) B L

Goal. Perform as an expeditionary Tower Local Controller (TLC).

Requirement. Perform the duties and responsibilities of a Tower Local Controller in an expeditionary environment.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a TLC in an expeditionary environment.

Prerequisite. 2011, 2104, 2105, 2121, 2130, 2131, 2203, 3630.

Instructor. BI

Reference.

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

3.10.7 Radar (RDR)

3.10.7.1 Purpose. To train controller to a required level of proficiency for radar qualifications. This stage provides the knowledge and mission skills needed to perform as a RADAR controller in an air traffic control facility or while deployed. The trainee incrementally attains mission skills by training in radar operating/crew positions at a Marine Corps Air Station, ATC Detachment or Forward Operating Base, under the direct supervision of qualified instructors in an OJT environment.

3.10.7.2 General

Admin Notes. This stage consists of RDK codes specific to the position being trained to in Radar. These codes include:

- (a) Radar Flight Data (RFD)
- (b) Radar Flight Controller (RFC)
- (c) Arrival/Departure Controller (ADC)
- (d) Radar Approach Controller (RAPC)

Total Training Events.

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

RFD-3700	1.0	(1460)	B,R	L
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Goal. Perform the duties of Radar Flight Data (RFD).

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

Reference.

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

RFD-3701	1.0	(*)	B	L
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Goal. Perform as an expeditionary Radar Flight Data (RFD).

Requirement. Perform the duties and responsibilities of a Radar Flight Data (RFD) Controller in an expeditionary environment.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a RFD in an expeditionary environment.

Instructor. BI.

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

Instructor. BI.

Prerequisite. 2018, 3700, 3710, 8521, 8522, 8523, 8525, 8526, 8535, 8536, 8537, 8539, 8540.

Reference.

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

RADC-3721 1.0 (*) B _____ L

Goal. Perform as an expeditionary Arrival/Departure Controller (ADC).

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

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a ADC in an expeditionary environment.

Instructor. BI.

Prerequisite. 2007, 2008, 2011, 2013, 2014, 2015, 2104, 2105, 2121, 2201, 3720.

Reference.

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

RAPC-3730 1.0 (1460) B,R _____ L

Goal. Perform non-radar approach control services.

Requirement. Conduct a simulated non-radar scenario IAW the reference.

Performance Standard. Complete the requirement items to a level of proficiency expected of a qualified controller under general supervision.

Instructor. BI.

Prerequisite. 8537.

Reference.

1. JO 7110.65.
2. Local Directives and Publications.

RAPC-3731 1.0 (1460) B,R L

Goal. Perform the duties of an Approach Controller (RAPC).

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

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

Instructor. BI.

Prerequisite. 2018, 3730, 8521, 8522, 8523, 8525, 8526, 8535, 8536, 8539, 8540.

Reference.

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

RAPC-3732 1.0 (*) B L

Goal. Perform as an expeditionary Approach Controller.

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

Performance Standard. Demonstrate the duties of a APC to a level of proficiency expected of a qualified APC under general supervision in an expeditionary environment.

Instructor. BI.

Prerequisite. 2007, 2008, 2011, 2013, 2014, 2015, 2104, 2105, 2121, 2201, 3731.

Reference.

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

3.11 CORE PLUS TRAINING (4000)

3.11.1 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.

3.11.2 General

3.11.2.1 Prerequisite. None.

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

3.11.2.3 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.

3.11.2.4 Stages. The following stages are included in the Core Plus Skill Phase of training.

PAR NO.	STAGE NAME
3.11.5	Expeditionary (EXPD)
3.11.6	Communication (COMM)
3.11.7	Command and Control Systems (C2SYS)

3.11.3 Expeditionary (EXPD)

3.11.3.1 Purpose. To train the controller on the employment of the MATCD in an expeditionary environment.

3.11.3.2 General.

Prerequisite. None.

Total Training Events.

- (1) Live / Simulated - 8 events, 52 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. 6110, 6170.

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

Instructor. SI, WTI.

EXPD-4001 1.0 (1460) B,R 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-4003 8.0 (1460) B,R 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.

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. 8721.

Reference.

1. MCWP 3-25.8.

EXPD-4010 1.0 (1460) B,R L

Goal. Operate a Link 11B.

Requirement. Given required equipment, conduct the following:

1. Enter required DB entries.
2. Ensure MATCD TDL equipment is set up and keyed.
3. Ensure required TDL filters are entered and activated per the OPTASK LINK.
4. Perform proper link entry and exit procedures.
5. Activate, determine the status of, and troubleshoot link as applicable.

Performance Standard. Proper link entry/exit procedures are completed without error per the reference. TDL has been initialized and is operating with tracks being exchanged.

Instructor. BI.

Prerequisite. 8601, 8602, 8603.

Reference.

1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures.
2. MIL STD 6011.
3. STANAG 5501.

EXPD-4011 1.0 (1460) B,R L

Goal. Operate Link 16.

Requirement. Given required equipment, conduct the following:

1. Ensure TDL DB entries are entered and correct.
2. Ensure MATCD TDL equipment is set up/keyed.
3. Ensure required TDL filters are entered and activated per the OPTASKLINK.
4. Load appropriate time and NDL into Link 16 terminal.
5. Load the NDL into the Link 16 terminal with each of the following methods:
 - a. Entering information into the DB by extracting information from the slot block allocation sheet in the NDD.
 - b. Loading the supplied initialization data load.
 - c. Demonstrate proper link entry and exit procedures.
 - d. Achieve fine synchronization in Link 16 network, determine the status of, and troubleshoot the link as appropriate.
6. Operate in/as the following:
 - a. Radio Silent or data silent.
 - b. Network Time Reference (NTR).

c. Initial Entry JTIDS Unit (IEJU).

Performance Standard. Proper link entry/exit procedures are completed without error per the reference. Link 16 is completed when the Link 16 terminal achieves fine synchronization and information/data has been exchanged between platforms.

Instructor. BI.

Prerequisite. 8601, 8602, 8604.

External Syllabus Support. Link 16 capable platform.

Reference.

1. CJCSM 6120.01 Joint Multi-TDL Operating Procedures.
2. Understanding Link 16 Handbook.

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 instructor (TTTECG).

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 Instructor (TTECG).

Reference. MCRP 4-11.3H

3.11.4 Communications (COMM)

3.11.4.1 Purpose. To train the MATC controller on COMSEC and classified materials requirements. The MATC controller obtains the required knowledge and skills to utilize all communications equipment and EKMS/COMSEC protocol associated with the MATCD. Training will be conducted under the direct supervision of qualified instructors in an OJT environment.

3.11.4.2 General

Prerequisite. 8701.

Total Training Events.

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

COMM-4015 2.0 (*) B L

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

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

Goal. Extract key material information from EKMS 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. Super-session 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.

3.11.5 Command and Control Systems (C2SYS)

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

3.11.5.2 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 events for MATC are listed in the chart below. C2SYS training is offered by MISTCs or provided during MISTEX, MEFEX, or other Wing TEEP events. Air Traffic Control personnel assigned duties requiring the use of C2 Systems will complete the relevant events below.

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	TBMCS Online Master Help Index
C2SYS-4902	TBMCS Alerts Service Web Apps
C2SYS-4903	Map Manager
C2SYS-4904	Web Mapping
C2SYS-4905	AATWEB
C2SYS-4906	WEBAD
C2SYS-4910	ESTAT
C2SYS-4913	Import an airspace group
C2SYS-4921	Operate C2PC
C2SYS-4922	Operate Blue Force Tracker equipment
C2SYS-4940	IRC NETWORK

3.12 INSTRUCTOR TRAINING (5000)

3.12.1 Purpose. To provide position qualified personnel the additional skills necessary to instruct, evaluate and recommend for completion or 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.

3.12.2 General

3.12.2.1 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 WTPP, 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 (RWS/TWS).

(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.

(4) 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 MMT Instructors.

(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, SI, and TERPSI, as applicable. 2. Commanding Officers are the approving authority for all unit combat leadership, MMTI, TERPSI, and WTI designations.

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

PAR NO.	STAGE NAME
3.12.3	BASIC INSTRUCTOR (BI)
3.12.4	SENIOR INSTRUCTOR (SI)

3.12.3 Basic Instructor (BI)

3.12.3.1 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.

3.12.3.2 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

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

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

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. IUT-5000, 5010

Reference. NAVMC 3500.14

3.12.4 Senior Instructor (SI)

3.12.4.1 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.

3.12.4.2 General

Prerequisites

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

(2) Complete the BI events in this manual, IUT 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.

IUT-5100	2.0	(*)	B	L
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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. 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

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. IUT 5100

Instructor. SI, WTI

Reference.

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

IUT-5120 2.0 (*) B L

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. IUT-5100, 5110

Reference.

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

IUT-5130 2.0 (*) E L

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.

3.13 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

3.13.1 Purpose. This phase provides for community standardization of controller qualifications, certifications, combat leadership and instructor designations.

3.13.2 General

3.13.2.1 Admin Notes

(1) The WTTP, or designated individual shall review the PR to ensure all required training, documentation and administrative actions have been completed prior to staffing qualification, certification, 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, certification, or designation be effective.

3.13.2.2 Prerequisite. Per the applicable POI.

3.13.2.3 Stages.

PAR NO.	STAGE NAME
3.13.3	Certifications (CERT)
3.13.4	Qualifications (QUAL)
3.13.5	Designations (DESG)

3.13.3 Certifications

3.13.3.1 Purpose. To record completion of formal schools/courses for ATC personnel as prerequisites and acknowledgment in M-SHARP.

3.13.3.2 General.

Prerequisite. None.

Admin Notes

(1) 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.

(2) 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

3.13.4 Qualifications

3.13.4.1 Purpose. To evaluate MATC personnel on their ability to perform proficiently in ATC positions in an operational tower, radar and ATC facility/detachment.

3.13.4.2 General

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).

(4) The refly interval detailed in this manual for position qualifications does not relieve the individual from maintaining proficiency while assigned to station as outlined in NAVAIR 00-80T-114, or applicable facility directives. Loss of proficiency has no impact on an assigned additional MOS awarded at the initial qualification on a major position.

Crew Requirement. A proficient crew, as needed.

Qualifications

- Radar Flight Data Controller (RFD)
- Expeditionary RFD
- Radar Final Controller (RFC)
- Expeditionary RFC
- Radar Arrival/Departure Controller (ADC)

Expeditionary ADC
Radar Approach Controller (APC)
Expeditionary APC
Tower Flight Data Controller (TFD)
Expeditionary TFD
Clearance Delivery (CD)
Expeditionary CD
Tower Ground Controller (TGC)
Expeditionary TGC
Tower Local Controller (TLC)
Expeditionary TLC
MATC Mobile Team Member (MMTM)
MATC Mobile Team Leader (MRTL)
Data Link Coordinator (DLC)

QUAL 6100 1.0 (1460) B,R L

Goal. Qualify as Radar Flight Data (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 6101 1.0 (1460) B L

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

Requirement. Perform the duties and responsibilities of a RFD IAW the reference, in an expeditionary environment.

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. 3701, 6100.

Reference.

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

QUAL 6110 1.0 (1460) B,R L

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 6111 1.0 (1460) B _____ L

Goal. Qualify as an expeditionary Radar Final Controller (RFC).

Requirement. Perform the duties and responsibilities of a RFC IAW the reference, in an expeditionary environment.

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. 3711, 6110.

Reference.

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

QUAL 6120 1.0 (1460) B,R _____ L

Goal. Qualify as a Radar Arrival/Departure Controller (ADC).

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

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

Instructor. SI (Radar Chief).

Prerequisite. 3720, 8000.

Reference.

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

QUAL 6121 1.0 (1460) B _____ L

Goal. Qualify as an expeditionary Radar Arrival/Departure Controller (ADC).

Requirement. Perform the duties and responsibilities of a RADC IAW the reference, in an expeditionary environment.

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

Instructor. SI (Radar Chief).

Prerequisite. 3721, 6120.

Reference.

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

QUAL 6130 1.0 (1460) B,R L

Goal. Qualify as a Radar Approach Controller (APC).

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

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

Instructor. SI.

Prerequisite. 3730, 3731, 8000.

Reference.

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

QUAL 6131 1.0 (1460) B L

Goal. Qualify as an expeditionary Radar Approach Controller (APC).

Requirement. Perform the duties and responsibilities of a RAPC IAW the reference, in an expeditionary environment.

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

Instructor. SI (Radar Chief).

Prerequisite. 3732, 6130.

Reference.

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

QUAL 6150 1.0 (1460) B,R L

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

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.

QUAL 6151 1.0 (1460) B _____ L

Goal. Qualify as an expeditionary Tower Flight Data Controller.

Requirement. Perform the duties and responsibilities of a TFD IAW the reference, in an expeditionary environment.

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

Prerequisite. 3601, 6150.

Instructor. SI (Tower Chief).

Reference.

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

QUAL 6160 1.0 (1460) B,R _____ L

Goal. Qualify as Clearance Delivery (CD).

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

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

Prerequisite. 3610.

Instructor. SI (Tower/Radar Chief).

Reference.

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

QUAL 6161 1.0 (1460) B _____ L

Goal. Qualify as expeditionary Clearance Delivery (CD).

Requirement. Perform the duties and responsibilities of a CD IAW the reference, in an expeditionary environment.

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

Prerequisite. 3611, 6160.

Instructor. SI (Tower/Radar Chief).

Reference.

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

QUAL 6170 1.0 (1460) 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.

QUAL 6171 1.0 (1460) B L

Goal. Qualify as an expeditionary Tower Ground Controller (TGC).

Requirement. Perform the duties and responsibilities of a TGC IAW the reference, in an expeditionary environment.

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

Prerequisite. 3621, 6170.

Instructor. SI (Tower Chief).

Reference.

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

QUAL 6180 1.0 (1460) B,R L

Goal. Qualify as a Tower Local Controller (TLC).

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

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

Prerequisite. 3630, 8000.

Instructor. SI (CTO Examiner).

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. FAAO 8000.90.
3. Local directives.

QUAL 6181 1.0 (1460) B L

Goal. Qualify as an expeditionary Tower Local Controller (TLC).

Requirement. Perform the duties and responsibilities of a TLC IAW the reference, in an expeditionary environment.

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

Prerequisite. 3631, 6180.

Instructor. SI (Tower Chief).

Reference.

1. NAVAIR 00-80T-114 Ch 6.
2. FAAO 8000.90.
3. Local directives.

QUAL-6200 2.0 (1460) B,R L D/N

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, 8000.

Reference. MMT TACSOP.

QUAL-6210 2.0 (1460) B,R L D/N

Goal. Qualify as an 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.

Instructor. MAWTS-1 Instructor or MMTI.

Prerequisite. 3300, 3301, 3302, 6180, 6200, 8020.

Reference. MMT TACSOP

QUAL 6220 2.0 (1460) B,R L

Goal. Qualify as a Data Link Coordinator (DLC).

Requirement. Given required equipment, conduct the following:

1. Brief link critical information during an ATC crew brief.
2. Ensure data link DB entries are entered and correct.
3. Ensure MATCD data link equipment is set up and keyed.
4. Ensure required TDL filters are entered and activated according to the OPTASK LINK.
5. Activate link as directed by SC/SID.
6. Evaluate TDL performance and recommend changes as needed to the SC/SID.
7. Perform link management functions per SC/SID direction.

Performance Standard. Complete all requirement items without instructor assistance. Instructor shall ensure the brief is thorough and accurate.

Instructor. BI (TAOC DLC).

Prerequisite. 4010, 4011, 6021.

External Syllabus Support. TDL capable agencies.

Reference.

1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures.
2. MIL STD 3011.

3.13.5 Designations

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

3.13.5.2 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 WTP 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

Radar Supervisor (RWS)
Radar Chief (RDRC)
Tower Supervisor (TWS)
Tower Chief (TWRC)
Training Chief (TNGC)
ATC Facility NCOIC
Detachment Operations/Training Chief
MACS Operations Chief
MATCD NCOIC
Basic Instructor (BI)
Senior Instructor (SI)
Weapons and Tactics Instructor (WTI)
MATC Mobile Team Instructor (MMTI)
Terminal Instrument Procedures Instructor (TERPSI)
Facility Watch Officer (FWO)
TERPS Specialist

DESG 6240 (*) B _____ L

Goal. Designate as a Radar Supervisor (RS).

Requirement. Be qualified on all ATC Radar branch positions in the facility/detachment. Be recommended for designation by the NCOIC and designated in writing by the detachment commander or facility officer.

Prerequisite. 2102, 8100, 8550.

Reference.

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

DESG 6241 (*) B _____ L

Goal. Designate as a Radar Chief (RDRC).

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

Prerequisite. 2103, 2106, 3500, 3501, 3502, 3503, 6140, 8040, 8060, 8551, 8553, 8554, 8560.

Reference.

1. NAVAIR 00-80T-114 Ch 6.

2. Local directives.

DESG 6242 (*) B L

Goal. Designate as a Tower Supervisor (TWS).

Requirement. Be qualified on all positions in the tower branch of the facility/detachment. Be recommended for designation by the NCOIC and designated in writing by the detachment commander or facility officer.

Prerequisites. 2102, 6150, 6160, 6170, 6180, 8020, 8550.

Reference.

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

DESG 6243 (*) B L

Goal. Designate as a Tower Chief (TWRC).

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

Prerequisite. 2103, 2106, 3500, 3501, 3502, 3503, 6190, 8040, 8060, 8551, 8552, 8554, 8560.

Reference.

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

DESG 6244 (*) B L

Goal. Designate as a Training Chief (TRNC).

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

Prerequisite. 2103, 2106, 6140, 6190, 8040, 8060, 8551, 8552, 8553, 8554.

Reference.

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

DESG 6245 (*) B L

Goal. Designate as a facility NCOIC.

Requirement. Be designated in writing by the facility officer.

Prerequisite. 2103, 2106, 3500, 3501, 3502, 3503, 8400, 8551, 8554, 8560.

Reference.

1. MCWP 3-25.8.
2. Local directives.

DESG 6250 (*) B L

Goal. Designate as a Detachment Operations/Training Chief.

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

Prerequisite. 2100, 2101 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060, 8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722.

Reference.

1. MCWP 3-25.8
2. Local directives.

DESG 6251 (*) B L

Goal. Designate as a MACS Operations Chief.

Requirement. Be recommended for designation by the NCOIC and designated in writing by the detachment commander.

Prerequisite. 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080, 8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722.

Reference.

1. MCWP 3-25.8.
2. Local directives.

DESG 6252 (*) B L

Goal. Designate as a MATCD NCOIC.

Requirement. Be recommended for designation by the detachment commander and be designated in writing by the commanding officer.

Prerequisite. 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080, 8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722.

Reference.

1. MCWP 3-25.8.
2. Local directives.

DESG-6320 (*) 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 (*) B _____ L

Goal. Designation as Senior Instructor (SI).

Requirement. Be recommended for designation by a 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 (*) B _____ L

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

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

Prerequisite. 6000.

DESG-6324 (*) B _____ L

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

Requirement. Be designated in writing by the detachment commander.

Prerequisite. 6004.

DESG-6325 (*) B _____ L

Goal. Designation as TERPSI.

Requirement. Be recommended for TERPSI designation by NAVFIG and designated by the facility officer, detachment commander or direct representative.

Prerequisite. Complete the TERPS Course; be designated as a TERPS Specialist (6501) and a BI (6320).

DESG-6401 (*) B _____ L

Goal. Designation as Facility Watch Officer (FWO).

Requirement. Be designated in writing by the Facility Officer.

Prerequisite. 8000, 8100, 8551, 8552, 8553, 8554, 8555.

Reference.

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

DESG 6501 (*) B L

Goal. Designate as a TERPS Specialist.

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

Prerequisite. 3512, 3513, 3514, 3515, 3516, 3517, 3518.

Reference.

1. OPNAVINST 3722.16.
2. FAAO 8260.46.
3. FAAO 8260.19D.

3.14 ACADEMICS

3.14.1 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.

3.14.2 General

3.14.2.1 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 events.

3.14.2.2 Stage. MATC Academics (ACAD)

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

ACAD-8500 1.0 (*) B L

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.

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.

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

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

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

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

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

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

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

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

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

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.
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.

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.

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.

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. MALS.
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.

2. Local directives.

ACAD-8527 1.0 (*) B L

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

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

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

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

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

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 (*) E L

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.

ACAD-8534 2.0 (*) B 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.

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.

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

Goal. Comprehend arrival/departure/approach control knowledge.

Requirement. Describe the following IAW the reference.

1. NAVAID Malfunctions.
2. NAVAID Terms.
3. NAVAIDS Fixes.

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

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.

ACAD-8539 2.0 (*) B L

Goal. Comprehend radar clearance knowledge.

Requirement. Describe the following IAW the reference.

1. ALTRV Clearances.
2. Clearance Items.
3. Departure Terminology.
4. Departure Restrictions, Clearance Void Times, Hold for Release, and Release Times.
5. VFR Release of IFR Departure.
6. Flight Direction.
7. Exceptions.
8. Lowest Usable Flight Level.
9. Altitude assignment and verification
10. Clearance Beyond Fix.
11. Visual Holding Points.
12. Holding Flight Path Deviation.
13. Unmonitored NAVAIDS.
14. ILS Protection/Critical Areas.
15. Clearance Information.
16. Approach Clearance Procedures.
17. Radar departures.
18. Clearance Limit.

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 (TS, RS)

Reference.

1. JO 7110.65.
2. NAVAIR 00-80T-114.
3. JO 7210.3.
4. Local Directives.

ACAD-8551 2.0 (*) B L

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.
8. MATC Training and Readiness manual and reporting.

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

Instructor. SI (Training Chief, Training and Standardization Officer).

Reference.

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

ACAD-8552 2.0 (*) B L

Goal. Comprehend the roles and responsibilities of the Tower Chief.

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-8560 1.0 (*) B L

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

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

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

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

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

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.

ACAD-8601 2.0 (*) B L

Goal. Comprehend interface coordination knowledge.

Requirement. With the aid of the reference, conduct the following:

1. State who controls the establishment of the Multi-TDL interface.
2. Define the following:
 - a. Data registration.
 - b. Sensor registration.
 - c. Correlation.
 - d. Common track.
 - e. Dual designation.
3. List the steps of the data registration test.
4. State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
5. List the five correlation restrictions for reported tracks.
6. List the eight operational contingency constraints (OCCs) for a track.
7. List the six steps for voice resolution of a dual designation.
8. What is the single most important element of information of the TDL interface.
9. Outline, in detail, the ID difference resolution procedures.
10. Define a Change Data Order (CDO).
11. State who on the interface may originate a CDO.

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

Instructor. BI.

References.

1. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTO).
2. MIL STD 6016.

ACAD-8602 2.0 (*) B L

Goal. Comprehend Link Ops Messages.

Requirement. Given the reference, conduct the following:

1. State the purpose of the OPTASKLINK.
2. Explain the information contained in the following sets:
 - a. "PERIOD" set.
 - b. "UNITFLTR" set.
 - c. "LKFREQ" set.
 - d. "REF" set.
 - e. "OPER" set.
 - f. "EXER" set
3. Explain the information contained in the following sets associated with Link-11B:
 - a. "DUTY" set.
 - b. "LRUDATA" set.
 - c. "LRULINK" set.
4. Explain the information contained in the following sets associated with Link-16:
 - a. "NETWORK" set.
 - b. "CRYPDAT" set.

- 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

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

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. WTI, SI, External Instructor (TTECG).

Reference. FMFM1-5.

ACAD-8704 1.0 (*) B L

Goal. Understand 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, ACC, and OPTASKLINK message, understand and identify critical information.

1. State the purpose and use of the:
 - a. ATO/SPINS.
 - b. ACP.
 - c. ACC.
 - 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).
 - c. Control point / controlling agencies.
 - d. Remarks.

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

Instructor. WTI.

Reference.

1. CJCSM 3150.01, USMTF User's Handbook.
2. CJCSM 6120.01D JMTOP.
2. JP 3-52, Joint Doctrine for airspace control in a combat zone.
3. MCWP 3-25.5, DASC Handbook.
4. ATO Primer (MAWTS-1 Local Document).

ACAD-8720 2.0 (*) B L

Goal. Comprehend the Integrated Air Defense Systems (IADS) and how it applies to the MATCD.

Requirement. During a guided discussion and given the references:

1. Identify the three objectives of an IADS.
2. Identify the four components of an IADS.
3. Identify the IADS doctrinal nets and information passing over them:
 - a. AAI/AAC (Anti-Aircraft Intel/Anti-Aircraft Control).
 - b. AOC (Air Ops Control).
 - c. CID (Combat ID).
4. State which USMC agencies and assets participate in the IADS.
5. Identify the means by which the MATCD participates in the IADS:
 - a. Providing an air picture to the SIAP, CTP, and the COP.
 - b. The Base Defense Zone (BDZ).
6. Describe the impact of air defense operations on ATC activity.

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

Instructor. WTI.

Reference.

1. MCWP 3-25.8, MATCD Handbook.
2. MCWP 3-25.10, Low Altitude Air Defense (LAAD) Handbook.
3. MCWP 3-22, AAW.

ACAD-8721 2.0 (*) B L

Goal. Comprehend Electronic Protection (EP) as it pertains to MATCD.

Requirement. During a guided discussion and given the references:

1. Discuss how the MATCD employs EP, to include:
 - a. Passive measures.
 - b. Active measures.
2. Explain MATC's procedure for reporting Electronic Warfare (EW) occurrences.
 - a. Joint Spectrum Interference Resolution (JSIR) report.
 - b. Meaconing, Intrusion, Jamming, and Interference (MIJI) report.
3. Describe the following EP features and how they pertain to the MATCD:
 - a. Blinking.
 - b. Sector blanking.
 - c. Frequency agility.
 - d. Polarization.
4. Explain EMCON and the sub-elements of MINCOM and RADCON. For RADCON, understand the purpose behind developing a RADCON plan and the implications for the MATCD.

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

Instructor. WTI.

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

3.16 T&R ATTAIN AND MAINTAIN TABLES

MARINE AIR TRAFFIC CONTROL ENLISTED T&R											
MATC											
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	1460	EQPT	2003R	EQPT	2003R	EQPT	2003R	-	-
ATCT	EQPT	2004R	1460	EQPT	2004R	EQPT	2004R	EQPT	2004R	-	-
AN/TSQ-216	EQPT	2005R	1460	EQPT	2005R	EQPT	2005R	EQPT	2005R	-	-
AN/TPN-31A	EQPT	2006	*	EQPT	2006					-	-
AN/TPN-31A	EQPT	2007	*	EQPT	2007					2006	-
AN/TPN-31A	EQPT	2008	*	EQPT	2008					2006, 2007	-
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					-	-
AN/TSQ-131	EQPT	2013	*	EQPT	2013					2009, 2011, 2012	-
AN/TSQ-131	EQPT	2014	*	EQPT	2014					2013	-
AN/TSQ-131	EQPT	2015	*	EQPT	2015					2009, 2011, 2012	-
AN/TSQ-131	EQPT	2016	*	EQPT	2016					2009, 2011, 2012	-
AN/TSQ-131	EQPT	2017	*	EQPT	2017					2009, 2011, 2012, 2016	-
RATCF	EQPT	2018R	1460	EQPT	2018R	EQPT	2018R	EQPT	2018R	-	-
RATCF	EQPT	2019R	1460	EQPT	2019R	EQPT	2019R	EQPT	2019R	-	-
AN/PSN-13A	EQPT	2025R	1460	EQPT	2025R	EQPT	2025R	EQPT	2025R	-	-
MAN PORTABLE TACAN, MEP 531	EQPT	2026R	1460	EQPT	2026R	EQPT	2026R	EQPT	2026R	-	-

NVD	EQPT	2030R	1460	EQPT	2030R	EQPT	2030R	EQPT	2030R	8575	-
NVD	EQPT	2031R	1460	EQPT	2031R	EQPT	2031R	EQPT	2031R	2030	-
ATC COMM			*							2001, 2002, 2005, 2006, 2009, 2010, 2011, 2012	-
	EXPD	2100		EXPD	2100						
SITE SURVEY	EXPD	2101	*	EXPD	2101					3504	-
FLT CERT	EXPD	2102	*	EXPD	2102					8506, 3500	-
LOA/MOU	EXPD	2103	*	EXPD	2103					-	-
CASEVAC	EXPD	2104R	1460	EXPD	2104R	EXPD	2104R	EXPD	2104R	-	-
ACM	EXPD	2105	*	EXPD	2105					-	-
WAIVER REQ	EXPD	2106	*	EXPD	2106					-	-
TACC	EXPD	2120	*	EXPD	2120					8000	-
TAOC/EWC	EXPD	2121	*	EXPD	2121					8000	-
DASC	EXPD	2122	*	EXPD	2122					8000	-
LAAD SECTION	EXPD	2123	*	EXPD	2123					8000	-
UAS	EXPD	2124	*	EXPD	2124					8000	-
AN/TSQ-120	EXPD	2130	*	EXPD	2130					2002	-
AN/TSQ-216	EXPD	2131	*	EXPD	2131					2005	-
PRC-117	COMM	2200R	1460	COMM	2200R	COMM	2200R	COMM	2200R	-	-
AN/ARC-210	COMM	2201	*	COMM	2201					-	-
CCS	COMM	2202	*	COMM	2202					-	-
CCS/TSQ-120	COMM	2203	*	COMM	2203					2201, 2202	-
PRC-150	COMM	2204R	1460	COMM	2204R	COMM	2204R	COMM	2204R	8576	-
PRC148 / PRC 152	COMM	2205R	1460	COMM	2205R	COMM	2205R	COMM	2205R	-	-
ATCT	COMM	2206R	1460	COMM	2206R	COMM	2206R	COMM	2206R	-	-
RATCF	COMM	2207R	1460	COMM	2207R	COMM	2207R	COMM	2207R	-	-
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	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	-
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		
OPS PLANNING	MMTL	3300R	1460	MMTL	3300R	MMTL	3300R	MMTL	3300R	2300, 2301, 2302, 2005, 2104, 6150, 6170	2300, 2301, 2302, 2005, 2104
KC130 LZ	MMTL	3301R	1460	MMTL	3301R	MMTL	3301R	MMTL	3301R	3300	3300
HLZ FARP	MMTL	3302R	1460	MMTL	3302R	MMTL	3302R	MMTL	3302R	3300	3300

OPS PLANNING										2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031, 6150, 6170	2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031
	MMTM	3310R	1460	MMTM	3310R	MMTM	3310R	MMTM	3310R		
KC130 LZ	MMTM	3311R	1460	MMTM	3311R	MMTM	3311R	MMTM	3311R	3310	3310
HLZ FARP	MMTM	3312R	1460	MMTM	3312R	MMTM	3312R	MMTM	3312R	3310	3310
INSTR PROC	TERPS	3500R	365	TERPS	3500R	TERPS	3500R	TERPS	3500R	-	-
TERM INSTR PROC	TERPS	3501R	365	TERPS	3501R	TERPS	3501R	TERPS	3501R	-	-
TERM INSTR PROC	TERPS	3502R	365	TERPS	3502R	TERPS	3502R	TERPS	3502R	-	-
TERM INSTR PROC	TERPS	3503R	365	TERPS	3503R	TERPS	3503R	TERPS	3503R	-	-
DEV INSTR PROC	TERPS	3504R	365	TERPS	3504R	TERPS	3504R	TERPS	3504R	3500, 3501, 3502, 3503	-
INSTR PROC	TERPS	3505R	365	TERPS	3505R	TERPS	3505R	TERPS	3505R	3500, 3501, 3502, 3503, 3504	-
HOLD PATT	TERPS	3506R	365	TERPS	3506R	TERPS	3506R	TERPS	3506R	3504, 3505	-
MVAC	TERPS	3507R	365	TERPS	3507R	TERPS	3507R	TERPS	3507R	3504, 3505	-
ASR	TERPS	3508R	365	TERPS	3508R	TERPS	3508R	TERPS	3508R	3504, 3505	-
PAR	TERPS	3509R	365	TERPS	3509R	TERPS	3509R	TERPS	3509R	3504, 3505	-
TACAN	TERPS	3510R	365	TERPS	3510R	TERPS	3510R	TERPS	3510R	3506	-
INST DEP	TERPS	3511R	365	TERPS	3511R	TERPS	3511R	TERPS	3511R	3504, 3505	-
MVAC	TERPS	3512R	180	TERPS	3512R	TERPS	3512R	TERPS	3512R	3507	-
ASR	TERPS	3513R	180	TERPS	3513R	TERPS	3513R	TERPS	3513R	3508	-
PAR	TERPS	3514R	180	TERPS	3514R	TERPS	3514R	TERPS	3514R	3509	-
TACAN	TERPS	3515R	180	TERPS	3515R	TERPS	3515R	TERPS	3515R	3506, 3510	-
DIV DEPART	TERPS	3516R	180	TERPS	3516R	TERPS	3516R	TERPS	3516R	3511	-
INSTR DEPART	TERPS	3517R	180	TERPS	3517R	TERPS	3517R	TERPS	3517R	3511, 3516	-
OBS EVAL	TERPS	3518R	180	TERPS	3518R	TERPS	3518R	TERPS	3518R	3512, 3513, 3514, 3515, 3516, 3517	-
ILS PROC	TERPS	3519R	365	TERPS	3519R	TERPS	3519R	TERPS	3519R	3506	-
GPS PROC	TERPS	3520R	365	TERPS	3520R	TERPS	3520R	TERPS	3520R	3506	-
ILS PROC	TERPS	3521R	180	TERPS	3521R	TERPS	3521R	TERPS	3521R	3506, 3519	-
GPS PROC	TERPS	3522R	180	TERPS	3522R	TERPS	3522R	TERPS	3522R	3506, 3520	-
PERFORM AS TFD	TFD	3600R	1460	TFD	3600R	TFD	3600R	TFD	3600R	8520, 8521, 8522, 8523, 2206, 2003, 2004	8520, 8521, 8522, 8523, 2206, 2003, 2004
PERFORM AS EXP TFD	TFD	3601	*	TFD	3601					3600, 8701, 2001, 2002, 2005, 2122, 2123, 2124	-

PERFORM AS CD	CLRD	3610R	1460	CLRD	3610R	CLRD	3610R	CLRD	3610R	8520, 8522, 8523, 2000, 2206, 2003, 2004	8520, 8522, 8523, 2206, 2003, 2004
PERFORM AS EXP CD	CLRD	3611	*	CLRD	3611					3610, 8701, 2001, 2002, 2005, 2123, 2124	-
PERFORM AS TGC	TGC	3620R	1460	TGC	3620R	TGC	3620R	TGC	3620R	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2000, 2206, 2003, 2004	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2003, 2004
PERFORM AS EXP TGC	TGC	3621	*	TGC	3621					3620, 8701, 2200, 2201, 2203, 2204, 2001, 2002, 2005, 2030, 2031, 2123, 2124, 2130, 2131	-
PERFORM AS TLC	TLC	3630R	1460	TLC	3630R	TLC	3630R	TLC	3630R	3620, 8525, 8526, 8529, 8530, 8531	3620, 8525, 8526, 8529, 8530, 8531
PERFORM AS EXP TLC	TLC	3631	*	TLC	3631					3630, 2203, 2011, 2104, 2105, 2121, 2130, 2131	-
PERFORM AS RFD	RFD	3700R	1460	RFD	3700R	RFD	3700R	RFD	3700R	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2000, 2207, 2019	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2207, 2019
PERFORM AS EXP RFD	RFD	3701	*	RFD	3701					3700, 2202, 2203, 2001, 2122, 2123, 2124	-
PERFORM AS RFC	RFC	3710R	1460	RFC	3710R	RFC	3710R	RFC	3710R	8520, 8532, 8533, 8534, 2000, 2207, 2018	8520, 8532, 8533, 8534, 2207, 2018
PERFORM AS EXP RFC	RFC	3711	*	RFC	3711					3710, 2200, 2202, 2203, 2204, 2001, 2006, 2009, 2010, 2012, 2016, 2017, 2123, 2124	-

PERFORM AS RADC	RADC	3720R	1460	RADC	3720R	RADC	3720R	RADC	3720R	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8537, 8539, 8540, 2018	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8537, 8539, 8540, 2018
PERFORM AS EXP RADC	RADC	3721	*	RADC	3721					3720, 2201, 2007, 2008, 2011, 2013, 2014, 2104, 2105, 2105, 2121	-
PERFORM AS NON-RAPC	RAPC	3730R	1460	RAPC	3730R	RAPC	3730R	RAPC	3730R	8537	8537
PERFORM AS RAPC	RAPC	3731R	1460	RAPC	3731R	RAPC	3731R	RAPC	3731R	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8539, 8540, 2018, 3730	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8539, 8540, 2018, 3730
PERFORM AS EXP RAPC	RAPC	3732	*	RAPC	3732					3731, 2201, 2007, 2008, 2011, 2013, 2014, 2015, 2104, 2105, 2121	-
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		
LSN OFFICER	EXPD	4000	*	EXPD	4000					6170, 6110	-
CBRN	EXPD	4001R	1460	EXPD	4001R	EXPD	4001R	EXPD	4001R	-	-
BDZ OPS	EXPD	4003R	1460	EXPD	4003R	EXPD	4003R	EXPD	4003R	8720, 8722	-
EMCON	EXPD	4004	*	EXPD	4004					8721	-
LINK-11B	EXPD	4010R	1460	EXPD	4010R	EXPD	4010R	EXPD	4010R	8601, 8602, 8603	-
LINK 16	EXPD	4011R	1460	EXPD	4011R	EXPD	4011R	EXPD	4011R	8601, 8602, 8604	-
REAR AREA OPS	EXPD	4012	*	EXPD	4012					-	-
CONVOY OPS	EXPD	4013	*	EXPD	4013					-	-
COMSEC	COMM	4015	*	COMM	4015					8701	-
PHYS SEC	COMM	4016	*	COMM	4016					8701	-
COMSEC CALLOUT	COMM	4017	*	COMM	4017					4015, 8701	-
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	-	-
TBMCS	C2SYS	4905R	182	C2SYS	4905R	C2SYS	4905R	C2SYS	4905R	-	-

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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	-	-
CZPC	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	-	-

3.17 T&R SYLLABUS MATRIX. The below matrix summarizes T&R syllabus event information.

MATC ENLISTED T&R SYLLABUS MATRIX																			
STAGE	EVENT		PO I	E	DEVICE			CON D	REFL Y	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAI N	EVENT CONV
	COD E	TITLE			TYP E	#	OPTIO N			#	TIM E	#	TIM E	#	TIM E				
CORE SKILL INTRODUCTION 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	-	-	-	-	
ATC	1440	Introduce the MAGTF and the six functions of Marine aviation	B	E	G	-	-	-	*		4		0		0	-	-	-	-	
ATC	1445	Introduce the Marine Air Command and Control System Overview	B	E	G	-	-	-	*		4		0		0	-	-	-	-	
ATC	1450	Introduce the Marine Air Traffic Control and Landing System (MATCAL)	B	E	G	-	-	-	*		8		0		0	-	-	-	-	
ATC	1455	Introduce the training modes for the MATCAL	B	E	S	-	-	-	*		0		8		0	-	-	-	-	
ATC	1460	Introduce the Marine Air Traffic Control Detachment Tower Equipment	B	E	G	-	-	-	*		8		0		0	-	-	-	-	
ATC	1465	Introduce the Marine Air Traffic Control Detachment Navigational Aid Equipment	B	E	G	-	-	-	*		6		0		0	-	-	-	-	
TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS)										2	3	323	5	152	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, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509	-	-	-	
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	-	BMT-385	

EQPT	2002	Explain the capabilities of the AN/TSQ-120	B	-	L	-	-	D	*	0	0	1	-	AN/TSQ-120	-	-
EQPT	2003	Operate fixed control tower structure equipment	B,R	-	L	-	-	D	1460	0	0	1	-	ATCT	-	BTC-200YR
EQPT	2004	Operate control tower messaging equipment	B,R	-	L	-	-	D	1460	0	0	1	-	ATCT	-	-
EQPT	2005	Explain the capabilities of the AN/TSQ-216	B,R	-	L	-	-	D	1460	0	0	1	-	AN/TSQ-216	-	-
EQPT	2006	Explain the capabilities of the AN/TPN-31A	B	-	L	-	-	D	*	0	0	1	-	AN/TPN-31A	-	-
EQPT	2007	Configure the AN/TPN-31A for operations	B	-	L	-	-	D	*	0	0	1	2006	AN/TPN-31A	-	-
EQPT	2008	Configure video maps for the AN/TPN-31A	B	-	L	-	-	D	*	0	0	1	2006, 2007	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	2013	Configure the AN/TSQ-131 system initialization (SI) data	B	-	L	-	-	D	*	0	0	1	2009, 2011, 2012	AN/TSQ-131	-	BMT-383
EQPT	2014	Load the system initialization (SI) data for the AN/TSQ-131	B	-	L	-	-	D	*	0	0	1	2013	AN/TSQ-131	-	BMT-383
EQPT	2015	Configure video maps for the AN/TSQ-131	B	-	L	-	-	D	*	0	0	1	2009, 2011, 2012	AN/TSQ-131	-	-
EQPT	2016	Configure the AN/TSQ-131 for operations	B	-	L	-	-	D	*	0	0	1	2009, 2011, 2012	AN/TSQ-131	-	BRC-221R
EQPT	2017	Control aircraft using the simulation mode of the AN/TSQ-131	B	-	S	-	-	D	*	0	1	0	2009, 2011, 2012, 2016	AN/TSQ-131	-	BRC-222R
EQPT	2018	Operate radar equipment	B,R	-	L	-	-	D	1460	0	0	1	-	RATCF	-	BRC-220RY
EQPT	2019	Operate Radar Flight Data (RFD) equipment	B,R	-	L	-	-	D	1460	0	0	1	-	RATCF	-	-
EQPT	2025	Operate the AN/PSN 13A DAGR	B,R	-	L	-	-	D	1460	0	0	2	-	AN/PSN-13A	-	-

EQPT	2026	Operate the AN/TRN-47 TACAN	B,R	-	L	-	-	D	1460	0	0	2		MAN PORTABLE TACAN, 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	-	-	N	1460	0	0	1	2030	NVD	-	-	
TOTAL EQUIPMENT SKILLS STAGE (EQPT)										0	0	1	1	22	24		
EXCEPTIONARY (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,R	-	L	-	-	-	1460	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 through chain of command/CNO	B	-	L	-	-	-	*	0	0	1	-	-	-	-	
EXPD	2120	Observe the configuration and operation of a Tactical Air Command Center (TACC)	B	-	L	-	-	-	*	0	0	1	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	8000	TAOC/EWC	-	BMT-485	

EXPD	2122	Observe the configuration and operation of a Direct Air Support Center (DASC)	B	-	L	-	-	-	*	0	0	1	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	8000	LAAD SECTION	-	BMT-487
EXPD	2124	Observe the configuration and operation of an Unmanned Aircraft System (UAS) site	B	-	L	-	-	-	*	0	0	1	8000	UAS	-	BMT-488
EXPD	2130	Operate the expeditionary control tower (AN/TSQ-120) and associated equipment	B	-	L	-	-	-	*	0	0	1	2002	AN/TSQ-120	-	BTC-201R
EXPD	2131	Operated the Remote Landing Site Tower (AN/TSQ-216) and associated equipment	B	-	L	-	-	-	*	0	0	1	2005	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	-	-	-		0	0	4	-	-	-	MMT-260
COMM	2201	Operate the AN/ARC-210 UHF/VHF Radio	B	-	L	-	-	-	*	0	0	2	-	-	-	-
COMM	2202	Operate the radios organic to the CCS	B	-	L	-	-	-	*	0	0	2	-	-	-	-
COMM	2203	Troubleshoot communication problems on the OCU associated with the CCS and TSQ-120	B	-	L	-	-	-	*	0	0	1	2201, 2202	-	-	-
COMM	2204	Operate HF man-pack communication equipment	B,R	-	L	-	-	-		0	0	2	8576	-	-	-
COMM	2205	Operate intra-team communication equipment	B,R	-	L	-	-	-		0	0	2	-	-	-	-
COMM	2206	Operate control tower communications equipment	B,R	-	L	-	-	-		0	0	2	-	-	-	-
COMM	2207	Operate radar communications equipment	B,R	-	L	-	-	-		0	0	2	-	-	-	-
COMM	2208	Utilize the AN/PYQ-10 Simple Key Loader (SKL)	B,R	-	L	-	-	-		0	0	2	-	-	-	-
TOTAL COMMUNICATIONS SKILLS STAGE (COMM)										0	0	0	0	9	19	

MATC MOBILE TEAM (MMT)																	
MMTL	2300	Develop and issue a five paragraph order	B,R	-	L	-	-	-	1460	0	0	2	MOO70 0799 MARINENET	-	-	-	
MMTL	2301	Conduct an Assault Zone Survey and Assessment	B,R	-	L	-	-	-	1460	0	0	8	MAWTS-1 ASSAULT ZONE SURVEY PRESENTATIO N	-	-	-	
MMTL	2302	Complete a Joint Tactical Air Strike Request (JTAR) Form	B,R	-	L	-	-	-	1460	0	0	2	-	-	-	-	
MMTM	2310	Conduct MMT KC-130 Landing Zone (LZ) Operations	B,R	-	L	-	-	D/N	1460	0	0	6	8570, 8571, 8573, 8574	-	-	MMT-264	
MMTM	2311	Conduct MMT Helicopter Landing Zone (HLZ) Operations	B,R	-	L	-	-	D/N	1460	0	0	4	8570, 8571, 8573, 8574	-	-	MMT-264	
MMTM	2312	Conduct Small Unit Tactics associated to MMT operations	B,R	-	L	-	-	D/N	1460	0	0	12	MARINENET MOOLDN LAND NAV	-	-	MMT-264	
TOTAL MATC MOBILE TEAM SKILLS STAGE (MMT)										0	0	0	0	6	34		
TOTAL CORE SKILL PHASE (2000 PHASE)										0	0	2	2	51	94		
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, 6150, 6170	-	-	2300, 2301, 2302, 2005, 2104	MMT-360
MMTL	3301	Perform as an MMT Leader during KC-130 landing zone operations	B,R	-	L	-	-	D/N	1460	0	0	2	3300	-	-	3300	MMT-360
MMTL	3302	Perform as an MMT Leader during HLZ FARP operations	B,R	-	L	-	-	D/N	1460	0	0	2	3300	-	-	3300	MMT-360
MMTM	3310	Perform as an MMT Member during operational planning	B,R	-	L	-	-	D/N	1460	0	0	2	2310, 2311, 2312, 2200, 2204, 2205, 2208, 2025, 2026, 2030, 2031, 6150, 6170	-	-	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	2	3310	-	3310	-
MMTM	3312	Perform as an MMT Member during HLZ FARP operations	B,R	-	L	-	-	D/N	1460	0	0	2	3310	-	3310	-
TOTAL MATC MOBILE TEAM SKILLS STAGE (MMT)										0	0	0	6	12		
TERPS SKILL TRAINING EVENTS (TERPS)																
TERPS	3500	Identify the organizations that support the development, approval and inspection of instrument procedures	B,R	-	L	-	-		365	0	0	2				
TERPS	3501	Identify the required publications and their usage in developing Navy/Marine Corps terminal instrument procedures	B,R	-	L	-	-		365	0	0	2				
TERPS	3502	Describe the administrative policies which govern the development of terminal instrument procedures	B,R	-	L	-	-		365	0	0	2				
TERPS	3503	Describe the general requirements for submission and approval of terminal instrument procedures	B,R	-	L	-	-		365	0	0	4				
TERPS	3504	Compile the necessary airport information to develop instrument procedures	B,R	-	L	-	-		365	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,R	-	L	-	-		365	0	0	8	3500, 3501, 3502, 3503, 3504			
TERPS	3506	Obtain knowledge required to construct a holding pattern	B,R	-	L	-	-		365	0	0	4	3504, 3505			
TERPS	3507	Obtain knowledge required to construct a Minimum Vectoring Altitude Chart (MVAC)	B,R	-	L	-	-		365	0	0	4	3504, 3505			
TERPS	3508	Obtain knowledge required to construct Surveillance Approach (ASR) procedure	B,R	-	L	-	-		365	0	0	4	3504, 3505			

TERPS	3509	Obtain knowledge required to construct a Precision Approach Radar (PAR) procedure	B,R	-	L	-	-	-	365	0	0	4	3504, 3505	-	-	-	
TERPS	3510	Obtain knowledge required to construct a TACAN instrument procedure	B,R	-	L	-	-	-	365	0	0	4	3506	-	-	-	
TERPS	3511	Obtain knowledge required to develop instrument departure procedures	B,R	-	L	-	-	-	365	0	0	8	3504, 3505	-	-	-	
TERPS	3512	Construct a Minimum Vectoring Altitude Chart (MVAC)	B,R	-	L	-	-	-	180	0	0	4	3507	-	-	-	
TERPS	3513	Construct a Surveillance Approach (ASR) procedure	B,R	-	L	-	-	-	180	0	0	4	3508	-	-	-	
TERPS	3514	Construct a Precision Approach (PAR) procedure	B,R	-	L	-	-	-	180	0	0	4	3509	-	-	-	
TERPS	3515	Construct a TACAN procedure	B,R	-	L	-	-	-	180	0	0	4	3506, 3510	-	-	-	
TERPS	3516	Evaluate diverse departure procedures	B,R	-	L	-	-	-	180	0	0	4	3511	-	-	-	
TERPS	3517	Develop a standard instrument departure procedure	B,R	-	L	-	-	-	180	0	0	4	3511, 3516	-	-	-	
TERPS	3518	Conduct an obstacle evaluation based on notice of proposed construction	B,R	-	L	-	-	-	180	0	0	4	3512, 3513, 3514, 3515, 3516, 3517	-	-	-	
TERPS	3519	Obtain knowledge required to develop instrument landing system (ILS) procedures	B,R	-	L	-	-	-	365	0	0	8	3506	-	-	-	
TERPS	3520	Obtain knowledge required to develop RNAV (GPS) procedures	B,R	-	L	-	-	-	365	0	0	16	3506	-	-	-	
TERPS	3521	Develop an instrument landing system (ILS) procedure	B,R	-	L	-	-	-	180	0	0	8	3506, 3519	-	-	-	
TERPS	3522	Develop an RNAV (GPS) procedure	B,R	-	L	-	-	-	180	0	0	16	3506, 3520	-	-	-	
TOTAL TERPS SKILLS STAGE (TERPS)										0	0	0	0	23	126		
TOWER SKILL TRAINING EVENTS (TWR)																	
TFD	3600	Perform as a Tower Flight Data (TFD) Controller	B, R	-	L	-	-	-	1460	0	0	1	8520, 8521, 8522, 8523, 2000, 2206, 2003, 2004	-	8520, 8521, 8522, 8523,	BTC-203	

																		2206, 2003, 2004	
TFD	3601	Perform as an expeditionary Tower Flight Data (TFD) Controller	B	-	L	-	-	-	*	0	0			1	3600, 8701, 2001, 2002, 2005, 2122, 2123, 2124	-	-	-	
CLRD	3610	Perform as a Clearance Delivery	B, R	-	L	-	-	-	1460	0	0			1	8520, 8522, 8523, 2000, 2206, 2003, 2004	-	8520, 8522, 8523, 2206, 2003, 2004	BTC-204	
CLRD	3611	Perform as an expeditionary Clearance Delivery	B	-	L	-	-	-	*	0	0			1	3610, 8701, 2001, 2002, 2005, 2123, 2124	-	-	-	
TGC	3620	Perform as a Tower Ground Controller (TGC).	B, R	-	L	-	-	-	1460	0	0			1	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2000, 2206, 2003, 2004	-	8520, 8522, 8523, 8524, 8525, 8527, 8528, 2206, 2003, 2004	BTC-205	
TGC	3621	Perform as an expeditionary Tower Ground Controller.	B	-	L	-	-	-	*	0	0			1	3620, 8701, 2200, 2201, 2203, 2204, 2001, 2002, 2005, 2030, 2031, 2123, 2124, 2130, 2131	-	-	-	
TLC	3630	Perform as a Tower Local Controller	B, R	-	L	-	-	-	1460	0	0			1	3620, 8525, 8526, 8529, 8530, 8531	-	3620, 8525, 8526, 8529, 8530, 8531	TLC-310	
TLC	3631	Perform as an expeditionary Tower Local Controller.	B	-	L	-	-	-	*	0	0			1	3630, 2203, 2011, 2104, 2105, 2121, 2130, 2131	-	-	-	
TOTAL TOWER SKILLS STAGE (TWR)										0	0	0	0	8	8				

RADAR SKILL TRAINING EVENTS (RDR)																	
RFD	3700	Perform the duties of Radar Flight Data.	B, R	-	L	-	-	-	1460	0	0	1	8520, 8521, 8522, 8523, 8532, 8534, 8538, 2000, 2207, 2019	-	8520, 8521, 8522, 8523, 8532, 8534, 2207, 2019	BRC-223	
RFD	3701	Perform the duties of an expeditionary Radar Flight Data.	B	-	L	-	-	-	*	0	0	1	3700, 2202, 2203, 2001, 2122, 2123, 2124	-	-	-	
RFC	3710	Perform the duties of a Radar Final Controller (RFC).	B, R	-	L	-	-	-	1460	0	0	1	8520, 8532, 8533, 8534, 2000, 2207, 2018	-	8520, 8532, 8533, 8534, 2018	BRC-224	
RFC	3711	Perform the duties of an expeditionary Radar Final Controller (RFC).	B	-	L	-	-	-	*	0	0	1	3710, 2200, 2202, 2203, 2204, 2001, 2006, 2009, 2010, 2012, 2016, 2017, 2123, 2124	-	-	-	
RADC	3720	Perform the duties of an Arrival/Departure Controller (ADC).	B, R	-	L	-	-	-	1460	0	0	1	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8537, 8539, 8540, 2018	-	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8537, 8539, 8540, 2018	ADC-341	
RADC	3721	Perform the duties of an expeditionary Arrival/Departure Controller (ADC).	B	-	L	-	-	-	*	0	0	1	3720, 2201, 2007, 2008, 2011, 2013, 2014, 2104, 2105, 2015, 2121	-	-	-	
RAPC	3730	Perform non-radar approach control services.	B, R	-	L	-	-	-	1460	0	0	1	8537	-	8537	APC-351YR	

RAPC	3731	Perform as an Approach Controller.	B, R	-	L	-	-	-	1460	0	0	0	0	1	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8539, 8540, 2018, 3730	-	8521, 8522, 8523, 8525, 8526, 8535, 8536, 8539, 8540, 2018, 3730	APC-352
RAPC	3732	Perform as an expeditionary Approach Controller.	B	-	L	-	-	-	*	0	0	0	0	1	3731, 2201, 2007, 2008, 2011, 2013, 2014, 2015, 2104, 2105, 2121	-	-	-
TOTAL RADAR SKILLS STAGE (RDR)										0	0	0	0	9	9			
TOTAL MISSION SKILL PHASE (3000 PHASE)										0	0	0	0	46	155			
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																		
EXPEDITIONARY (EXPD)																		
EXPD	4000	Perform as a MATC Liaison Officer	B	-	L	-	-	-	*	0	0	0	0	2	6170, 6110	-	-	-
EXPD	4001	Conduct MATCD operations in a Chemical, Biological, Nuclear, Radiological (CBRN) environment	B,R	-	L	-	-	-	1460	0	0	0	0	6	-	-	-	BMT-393
EXPD	4003	Conduct base defense zone operations	B,R	-	L	-	-	-	1460	0	0	0	0	6	8720, 8722	-	-	-
EXPD	4004	Conduct launches and recoveries in EMCON Conditions	B	-	L	-	-	-	*	0	0	0	0	6	8721	-	-	BTC-206
EXPD	4010	Operate a Link 11B	B,R	-	L	-	-	-	1460	0	0	0	0	2	8601, 8602, 8603	-	-	-
EXPD	4011	Operate Link 16	B,R	-	L	-	-	-	1460	0	0	0	0	2	8601, 8602, 8604	-	-	-
EXPD	4012	Plan and employ rear area operations	B	-	L	-	-	-	*	0	2	0	0	0	-	-	-	-
EXPD	4013	Plan, brief and execute convoy operations	B	-	L	-	-	-	*	0	0	0	0	2	-	-	-	-
TOTAL EXPEDITIONARY SKILLS STAGE (EXPD)										0	0	1	2	7	26			
COMMUNICATIONS (COMM)																		
COMM	4015	Describe proper handling and storage of classified	B	-	L	-	-	-	*	0	0	0	0	2	8701	-	-	-

		materials																
COMM	4016	Ensure physical security of classified areas	B	-	L	-	-	-	*	0	0		2	8701	-	-	-	
COMM	4017	Extract key material information from EKMS COMSEC callout	B	-	L	-	-	-	*	0	0		2	4015, 8701	-	-	-	
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	1.5	0	0	-	-	-	-	
C2SYS	4903	Use Map Manager	B,R	-	G	-	-	-		182	1	0	0	-	-	-	-	
C2SYS	4904	Use Web Mapping	B,R	-	G	-	-	-		182	1	0	0	-	-	-	-	
C2SYS	4905	Utilize the Air Tasking Order/Airspace Control Order Tool	B,R	-	G	-	-	-		182	1	0	0	-	-	-	-	
C2SYS	4906	Use the Web based Airspace Deconfliction Software	B,R	-	G	-	-	-		182	4	0	0	-	-	-	-	
C2SYS	4910	Use the Execution Status and Monitoring 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	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 equipment	B,R	-	G	-	-	-		182	4	0	0	-	-	-	-	
TOTAL COMMAND AND CONTROL SYSTEMS SKILLS STAGE (C2SYS)										1	1	25	0	0	0	0		
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										1	1	25	1	2	10	32		
TOTAL 2000, 3000, AND 4000 PHASE										1	1	25	3	4	107	281		
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																		
INSTRUCTOR UNDER TRAINING (IUT)																		
BASIC INSTRUCTOR (BI)																		
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*	0	0		2	Recommend ed by SI or WTI	-	-	-	

IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*	0	0	0	1	Recommended by SI or WTI	-	-	-
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*	0	0	0	2	Recommended by SI or WTI	-	-	-
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	0	2	5000, 5010, 5020, 6320	-	-	-
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*	0	0	0	2	5000, 5010, 5020, 6320	-	-	-
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*	0	0	0	2	5000, 5010, 5020, 6320	-	-	-
IUT	5130	Develop a training plan	B,R	-	G	-	-	D	365	0	0	0	2	5000, 5010, 5020, 6320	-	-	-
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8		
TOTAL INSTRUCTOR UNDER-TRAINING SKILLS PHASE (IUT)										0	0	0	0	7	13		
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																	
QUALIFICATIONS (QUAL)																	
QUAL	6100	Qualify as Radar Flight Data	B,R	-	L	-	-	-	1460	0	0	0	1	3700	-	3700	QUAL-625
QUAL	6101	Certify as an expeditionary Radar Flight Data	B	-	L	-	-	-	*	0	0	0	1	3701, 6100	-	-	-
QUAL	6110	Qualify as a Radar Final Controller	B,R	-	L	-	-	-	1460	0	0	0	1	3710	-	3710	QUAL-626
QUAL	6111	Certify as an expeditionary Radar Final Controller	B	-	L	-	-	-	*	0	0	0	1	3711, 6110	-	-	-
QUAL	6120	Qualify as a Radar Arrival/Departure Controller	B,R	-	L	-	-	-	1460	0	0	0	1	3720, 8000	-	3720	QUAL-642
QUAL	6121	Certify as an expeditionary Radar Approach Controller	B	-	L	-	-	-	*	0	0	0	1	3732, 6130	-	-	-
QUAL	6130	Qualify as a Radar Approach Controller	B,R	-	L	-	-	-	1460	0	0	0	1	3730, 3731, 8000	-	3730, 3731	QUAL-653
QUAL	6131	Certify as an expeditionary Tower Flight Data Controller	B	-	L	-	-	-	*	0	0	0	1	3601, 6150	-	-	-
QUAL	6150	Qualify as a Tower Flight Data Controller	B,R	-	L	-	-	-	1460	0	0	0	1	3600	-	3600	QUAL-608
QUAL	6151	Certify as expeditionary Clearance Delivery	B	-	L	-	-	-	*	0	0	0	1	3611, 6160	-	-	-
QUAL	6160	Qualify as Clearance Delivery	B,R	-	L	-	-	-	1460	0	0	0	1	3610	-	3610	QUAL-608
QUAL	6161	Certify as an expeditionary Tower Ground Controller	B	-	L	-	-	-	*	0	0	0	1	3621, 6170	-	-	-

QUAL	6170	Qualify as a Tower Ground Controller	B,R	-	L	-	-	-	1460	0	0	1	3620	-	3620	QUAL-609
QUAL	6171	Certify as an expeditionary Tower Local Controller	B	-	L	-	-	-	*	0	0	1	3631, 6180	-	-	-
QUAL	6180	Qualify as a Tower Local Controller	B,R	-	L	-	-	-	1460	0	0	1	3630, 8000	-	3630	QUAL-611
QUAL	6181	Certify as an expeditionary Radar Arrival/Departure Controller	B	-	L	-	-	-	*	0	0	1	3721, 6120	-	-	-
QUAL	6200	Qualify as an MMT Member	B,R	-	L	-	-	-	1460	0	0	1	3310, 3311, 3312, 8000	-	3310, 3311, 3312	QUAL-666
QUAL	6210	Qualify as an MMT Leader	B,R	-	L	-	-	-	1460	0	0	1	3300, 3301, 3302, 6180, 6200, 8020	-	3300, 3301, 3302	QUAL-661
QUAL	6220	Qualify as a Data Link Coordinator	B,R	-	L	-	-	-	1460	0	0	1	4010, 4011, 6021	-		QUAL-633
TOTAL QUALIFICATIONS STAGE (QUAL)										0	0	0	0	19	19	
DESIGNATIONS (DESG)																
DESG	6240	Designate as a Radar Supervisor	B	-	L	-	-	-	*	0	0	1	8550, 2102, 8020	-	-	
DESG	6241	Designate as a Radar Chief	B	-	L	-	-	-	*	0	0	1	8551, 8552, 8553, 8554, 8560, 6140, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060	-	-	DESG-674
DESG	6242	Designate as a Tower Supervisor	B	-	L	-	-	-	*	0	0	1	8550, 6000, 6010, 6020, 6030, 2102, ACPM 8020	-	-	DESG-670
DESG	6243	Designate as a Tower Chief	B	-	L	-	-	-	*	0	0	1	8551, 8552, 8553, 8554, 8560, 6240, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060	-	-	DESG-671
DESG	6244	Designate as a Training Chief	B	-	L	-	-	-	*	0	0	1	8551, 8552, 8553, 8554, 6240, 6242, 2103, 2106, 8040, 8060	-	-	DESG-676

DESG	6245	Designate as a facility NCOIC	B	-	L	-	-	-	*	0	0	1	8551, 8554, 8560, 2103, 2106, 3500, 3501, 3502, 3503, 8080	-	-	
DESG	6250	Designate as a Detachment Operations/Training Chief	B	-	L	-	-	-	*	0	0	1	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8040, 8060	-	-	
DESG	6251	Designate as a MACS Operations Chief	B	-	L	-	-	-	*	0	0	1	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080	-	-	DESG-682
DESG	6252	Designate as a MATCD NCOIC	B	-	L	-	-	-	*	0	0	1	8560, 8561, 8562, 8563, 8570, 8572, 8573, 8704, 8705, 8720, 8721, 8722, 2100, 2101, 2102, 2103, 2106, 3500, 3501, 3502, 3503, 8080	-	-	DESG-681
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 WT1	B	-	L	-	-	-	*	0	0	1	6000	-	-	DESG-601
DESG	6324	Designate as a MMTI	B	-	L	-	-	-	*	0	0	1	6004	-	-	DESG-602

DESG	6325	Designate as a TERPSI	B	-	L	-	-	-	*	0	0	1	6501, 6800	-	-	
DESG	6401	Designate as a Facility Watch Officer	B	-	L	-	-	-	*	0	0	1	8551, 8552, 8553, 8554, 8555	-	-	DESG-677
DESG	6500	Designate as a TERPS Specialist	B	-	L	-	-	-	*	0	0	1	3512, 3513, 3514, 3515, 3516, 3517, 3518	-	-	DESG-603
TOTAL DESIGNATIONS STAGE (DESG)										0	0	0	0	6	16	
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS PHASE (RQCD)										0	0	0	0	#REF!	35	
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	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	-	-	-	*		1	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	-	-	-	*		2	0		0	-	-	-	-
ACAD	8573	Describe the MEU(SOC) Mission	B	G	-	-	-	*		1	0		0	-	-	-	-

ACAD	8574	Comprehend forward arming and refueling (FARP) operations	B	G	-	-	-	*	2	0	0	-	-	-	-
ACAD	8575	Complete the MATC NITE Lab course	B	G	-	-	N	*	4	0	0	-	NITE Lab	-	-
ACAD	8576	Complete the Antenna Construction and Propagation of Radio Waves MCI	B	G	-	-	-	*	16	0	0	-	MCI access	-	-
ACAD	8601	Comprehend interface coordination knowledge	B	G	-	-	-	*	2	0	0	-	-	-	-
ACAD	8602	Comprehend Link ops messages	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	-	-	-	-
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	

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3.18 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.

3.18.1 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%2fnwc3%2fShared%20Documents%2fC3%20Course%20Catalog&View=%7b101EF248%2d0CF0%2d4FA2%2d6788%2d3BA9032AE17E%7d>