CHAPTER 5

AVIATION RADAR TECHNICIAN (MOS 5948)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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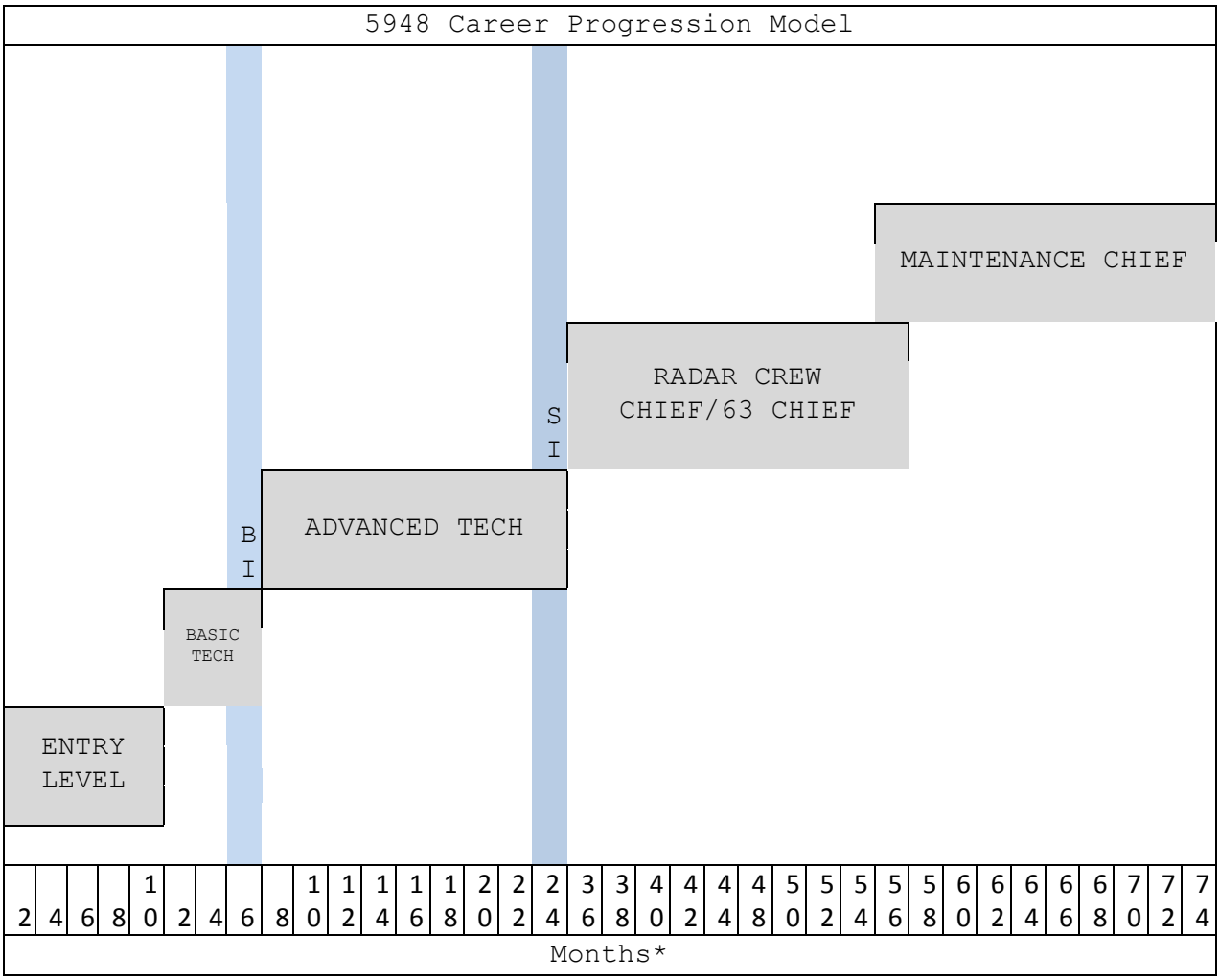
CHAPTER 4

AVIATION RADAR TECHNICIAN/5948
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

5.0 AVIATION RADAR TECHNICIAN /5948 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

5.1 5948 TRAINING PROGRESSION MODEL. This model represents the recommended average training progression for the Aviation RADAR Technician crewmember. Units should use the model as a point of departure to generate individual training plans.



* Months indicated are training months, not calendar months.

5.2 ABBREVIATIONS

TAOC MAINTENANCE MOS 5948	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
CD	COLLATERAL DUTY
CMN	MACCS MAINTENANCE COMMON
COMSEC	COMMUNICATION SECURITY
FAM	FAMILIARIZATION
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
IFF	IDENTIFICAITON FRIEND OR FOE
LRR	LONG RANGE RADAR
MMGT	MAINTENANCE MANAGEMENT
MRR	MEDIUM RANGE RADAR
OMGT	OPERATIONAL MANAGEMENT
RDR	RADAR
TMDE	TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT
MISSION SKILL (3000 Phase)	
EWC	EARLY WARNING AND CONTROL SITE
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
LRR	LONG RANGE RADAR
MACG	MARINE AIR CONTROL GROUP
MMGT	MAINTENANCE MANAGEMENT
MRR	MEDIUM RANGE RADAR
OMGT	OPERATIONAL MANAGEMENT
TAOC	TACTICAL AIR OPERATIONS CENTER
CORE PLUS (4000 Phase)	
LRR	LONG RANGE RADAR
MRR	MEDIUM RANGE RADAR
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)	
ARBT	AVIATION RADAR BASIC TECHNICIAN
ARAT	AVIATION RADAR ADVANCED TECHNICIAN
ARC	AVIATION RADAR CHIEF
ARC63	AVIATION RADAR 63 CHIEF
ARMC	AVIATIION RADAR MAINTENANCE CHIEF
CAT	COMPTIA A+ TECHNICIAN
CNT	COMPTIA NETWORK+ TECHNICIAN
CST	COMPTIA SAFETY+ TECHNICIAN
SAF CD	SAFETY COLLATERAL DUTY
HAZMAT CD	HAZARDOUS MATERIAL COLLATERAL DUTY
PUB CD	PUBLICATIONS COLLATERAL DUTY
TRNG CD	TRAINING COLLATERAL DUTY
TOOLS CD	TOOLS COLLATERAL DUTY
CAL CD	CALIBRATIONS COLLATERAL DUTY
MOD CD	MODIFICATIONS COLLATERAL DUTY
EMB CD	EMBARK COLLATERAL DUTY
MIMMS CD	MIMMS COLLATERAL DUTY
QC CD	QUALITY CONTROL COLLATERAL DUTY

5.3 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
MET Phase	This Phase represents community specific unit METs. It combines CMMR crew proficient Marines, Combat Leaders, and designated non-aviation PMOS Marines into combat capable teams.

5.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

5.4.2 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.

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

5.4.4 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.

5.4.5 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.

Note

See Chapter 2 for amplifying information on POI updating.

TAOC MAINTENANCE MOS 5948					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
CORE SKILL (2000 Phase)					
CMN	2150				
CMN	2151				
CMN	2152				
CMN	2153				
CMN	2154R	CMN	2154R		
CMN	2158				
CMN	2159R	CMN	2159R		
TMDE	2170				
TMDE	2171R	TMDE	2171R		
TMDE	2172R	TMDE	2172R		
TMDE	2173R	TMDE	2173R		
TMDE	2174R	TMDE	2174R		
TMDE	2175R	TMDE	2175R		
TMDE	2176R	TMDE	2176R		
COMSEC	2190R	COMSEC	2190R	COMSEC	2190R
COMSEC	2191R	COMSEC	2191R	COMSEC	2191R
COMSEC	2192R	COMSEC	2192R	COMSEC	2192R
COMSEC	2193R	COMSEC	2193R	COMSEC	2193R
COMSEC	2194R	COMSEC	2194R		
COMSEC	2195R	COMSEC	2195R	COMSEC	2195R
COMSEC	2196				
COMSEC	2197				
COMSEC	2198				
COMSEC	2199R	COMSEC	2199R	COMSEC	2199R
FAM	2210				
FAM	2211				
FAM	2212				
FAM	2213				
FAM	2214				
FAM	2215				
FAM	2216				
FAM	2217				
FAM	2218				
FAM	2222				
FAM	2223				
CD	2230R	CD	2230R		
CD	2231				
CD	2232				
CD	2233				
CD	2234				
CD	2235				

TAOC MAINTENANCE MOS 5948					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
CD	2236				
CD	2237				
CD	2238				
CD	2240	CD	2240	CD	2240
CD	2243				
IAWFAT	2250				
IAWFAT	2251				
IAWFAT	2252				
IAWFAT	2253				
IAWFAT	2254				
IAWFAT	2255				
IAWFAT	2256				
IAWFAT	2257				
IAWFAT	2258				
IAWFNT	2259				
IAWFNT	2260				
IAWFNT	2261				
IAWFNT	2262				
IAWFNT	2263				
IAWFST	2264				
IAWFST	2265				
IAWFST	2266				
IAWFST	2267				
IAWFST	2268				
IAWFST	2269				
IFF	2350				
IFF	2351R	IFF	2351R		
IFF	2352				
IFF	2353R	IFF	2353R		
IFF	2354R	IFF	2354R		
RDR	2360				
RDR	2361	RDR	2361	RDR	2361
RDR	2362	RDR	2362	RDR	2362
RDR	2363	RDR	2363	RDR	2363
RDR	2364				
RDR	2365				
RDR	2366				
RDR	2367				
RDR	2368				
LRR	2480				
LRR	2481				
LRR	2482	LRR	2482	LRR	2482
LRR	2483	LRR	2483	LRR	2483
LRR	2484	LRR	2484	LRR	2484
LRR	2485				
LRR	2486				
LRR	2487	LRR	2487	LRR	2487
LRR	2488	LRR	2488	LRR	2488
LRR	2489				
LRR	2490				
LRR	2491				
LRR	2492				
LRR	2493				
LRR	2494				
LRR	2495				
LRR	2496				
LRR	2497				

TAOC MAINTENANCE MOS 5948					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
LRR	2498				
LRR	2499				
LRR	2500				
LRR	2501				
LRR	2502				
LRR	2503	LRR	2503	LRR	2503
LRR	2504				
LRR	2505				
LRR	2506				
LRR	2507				
LRR	2508	LRR	2508	LRR	2508
LRR	2509				
LRR	2510				
LRR	2511				
LRR	2512	LRR	2512	LRR	2512
LRR	2513	LRR	2513	LRR	2513
MRR	2540				
MRR	2541	MRR	2541	MRR	2541
MRR	2542				
MRR	2543				
MRR	2544	MRR	2544		
MRR	2545	MRR	2545	MRR	2545
MRR	2546	MRR	2546	MRR	2546
MRR	2547	MRR	2547	MRR	2547
MRR	2548				
MRR	2549	MRR	2549	MRR	2549
MRR	2550				
MRR	2551				
MRR	2552				
MRR	2553				
MRR	2554				
MRR	2555				
MRR	2556				
MRR	2557				
MRR	2558				
MRR	2559				
MRR	2560				
MRR	2561				
MRR	2562				
MRR	2563				
MRR	2564R	MRR	2564R		
MRR	2565R	MRR	2565R		
MRR	2566				
MRR	2567				
MRR	2568				
MRR	2569				
MMGT	2600				
MMGT	2601				
MMGT	2602R	MMGT	2602R		
MMGT	2603				
MMGT	2604				
MMGT	2605				
MMGT	2606				
MMGT	2607				
MMGT	2608R	MMGT	2608R		
MMGT	2609				
MMGT	2610				
MMGT	2611				

TAOC MAINTENANCE MOS 5948					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
MMGT	2612				
MMGT	2613				
MMGT	2614				
OMGT	2680				
OMGT	2681	OMGT	2681	OMGT	2681
OMGT	2682	OMGT	2682	OMGT	2682
OMGT	2683				
OMGT	2684				
OMGT	2685				
OMGT	2686	OMGT	2686	OMGT	2686
OMGT	2687				
OMGT	2688	OMGT	2688	OMGT	2688
OMGT	2689				
OMGT	2690				
OMGT	2691				
OMGT	2692				
MISSION SKILL (3000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
IAWFAT	IAWFAT-3280R	IAWFAT	IAWFAT-3280R	IAWFAT	IAWFAT-3280R
	IAWFAT-3281R		IAWFAT-3281R		IAWFAT-3281R
IAWFNT	IAWFNT-3282R	IAWFNT	IAWFNT-3282R	IAWFNT	IAWFNT-3282R
IAWFST	IAWFST-3283R	IAWFST	IAWFST-3283R	IAWFST	IAWFST-3283R
LRR	LRR-3514	LRR		LRR	
	LRR-3515				
	LRR-3516				
	LRR-3517				
	LRR-3518				
	LRR-3519R		LRR-3519R		LRR-3519R
	LRR-3521R		LRR-3521R		LRR-3521R
MRR	MRR-3580R	MRR	MRR-3580R	MRR	MRR-3580R
	MRR-3581				
	MRR-3582				
	MRR-3583R		MRR-3583R		
	MRR-3584				
MMGT	MMGT-3660	MMGT		MMGT	
	MMGT-3661R		MMGT-3661R		MMGT-3661R
	MMGT-3662				
OMGT	OMGT-3710R	OMGT	OMGT-3710R	OMGT	OMGT-3710R
	OMGT-3711				
	OMGT-3714				
	OMGT-3715				
MACG	MACG-3750R	MACG	MACG-3750R	MACG	MACG-3750R
	MACG-3751R		MACG-3751R		MACG-3751R
	MACG-3752R		MACG-3752R		MACG-3752R
	MACG-3753R		MACG-3753R		MACG-3753R
	MACG-3754R		MACG-3754R		MACG-3754R
	MACG-3755R		MACG-3755R		MACG-3755R
	MACG-3756R		MACG-3756R		MACG-3756R
CORE PLUS (4000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
LRR	4520				
MRR	4590				
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT					

5.5 REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION 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, squadron 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 and NATOPS. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

5.5.1 INSTRUCTOR DESIGNATIONS

TAOC MAINTENANCE MOS 5948 INSTRUCTOR DESIGNATIONS (5000 Phase)	
INSTRUCTOR DESIGNATION	**EVENTS**
BASIC INSTRUCTOR (BI)	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 5000, 5010, 5020, 6102
SENIOR INSTRUCTOR (SI)	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2193, 2194, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3660, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6102, 6103

5.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

TAOC MAINTENANCE MOS 5948 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
Qualification as an Aviation Radar Basic Technician (ARBT). QUAL-6102	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715
Qualification as an Aviation Radar Advanced Technician (ARAT). QUAL-6103	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2193, 2194, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3660, 3715, 6102
Certification as a COMPTIA A+ Technician. CERT-6200	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281
Certification as a COMPTIA Network+ Technician. CERT-6201	2259, 2260, 2261, 2262, 2263, 3282
Certification as a COMPTIA Security+ Technician. CERT-6202	2264, 2265, 2266, 2267, 2268, 2269, 3283
Designation as an Aviation Radar Chief (ARC). DESG-6303	2150, 2151, 2152, 2153, 2154, 2170, 2174, 2176, 2190, 2191, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2690, 2691, 3514, 3515, 3516, 3517, 3660, 3661, 3710, 3711, 3715, 6103
Designation as an Aviation Radar Chief 63 (ARC63). DESG-6304	2150, 2151, 2152, 2153, 2154, 2170, 2174, 2176, 2190, 2191, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2350, 2351, 2352, 2353, 2354, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556,

TAOC MAINTENANCE MOS 5948 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
	2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2690, 2691, 3514, 3515, 3516, 3517, 3580, 3581, 3582, 3583, 3584, 3660, 3661, 3710, 3711, 3715, 6103
Designation as an Aviation Radar Maintenance Chief (ARMC). DESG-6305	2150, 2151, 2152, 2153, 2154, 2170, 2174, 2176, 2190, 2191, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2690, 2691, 3514, 3515, 3516, 3517, 3660, 3661, 3662, 3710, 3711, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 6103
Designation as a Basic Instructor (BI). DESG-6321	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 5000, 5010, 5020, 6102
Designation as a Senior Instructor (SI). DESG-6325	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2193, 2194, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3660, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6103
Designation as a Maintenance Safety NCO. DESG-6340	2230, 2235, 2236
Designation as a Maintenance HAZMAT NCO. DESG-6341	2230, 2235, 2236
Designation as a Maintenance Publications NCO. DESG-6342	2230, 2234
Designation as a Maintenance Tools NCO. DESG-6343	2230, 2233
Designation as a Maintenance Calibrations NCO. DESG-6344	2230, 2231
Designation as a Maintenance Modifications NCO. DESG-6345	2230, 2232, 2234
Designation as a Maintenance Embarkation NCO. DESG-6346	2230, 2237
Designation as a Marine Corps Integrated Maintenance Management System (MIMMS) NCO. DESG-6347	2159, 2230, 2602
Designation as a Maintenance Training NCO. DESG-6348	2230
Designation as a Maintenance Quality Control (QC) NCO. DESG-6350	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2193, 2194, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3660, 3715, 6103

5.6 5948 PROGRAMS OF INSTRUCTION (POI). These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

5.6.1 Basic POI

TAOC MAINTENANCE 5948 BASIC POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
0-44	CORE SKILL INTRODUCTION TRAINING	MCCES
45-74	CORE SKILL TRAINING	TACTICAL SQUADRON
75-123	MISSION SKILL TRAINING	TACTICAL SQUADRON
124-128	CORE PLUS	TACTICAL SQUADRON

5.6.2 Refresher POI

TAOC MAINTENANCE MOS 5948 REFRESHER POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
VARIES	CORE SKILL TRAINING	TACTICAL SQUADRON
VARIES	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

NOTE 1: TRAINING DURATIONS VARIES BY POSITION BEING TRAINED. SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

5.7 SYLLABUS NOTES

5.7.1 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 unaided
(N*)	May be conducted during hours of darkness – If conducted during hours of darkness must be unaided
(N)	May be conducted during darkness – If conducted during hours of darkness; may be 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 with Night Vision Devices
Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event.	

5.7.2 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.

DEVICE	
Symbol	**Meaning**
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.	

5.7.3 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/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency.

5.7.4 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.)

5.8 ACADEMIC PHASE (0000)

5.8.1 Purpose. **RESERVED FOR FUTURE USE**

5.8.2 General

5.8.2.1 Admin Notes.

5.8.2.2 Prerequisites.

5.8.2.3 Stages.

5.9 CORE SKILL INTRODUCTION PHASE (1000)

5.9.1 Purpose. To provide entry level instruction to develop the basic skills necessary to become a MOS 5948 Aviation RADAR Technician. This training is completed upon graduation from the Aviation RADAR Technician Course.

5.9.2 General.

5.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCBul 1200).

5.9.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
5.9.3	AIR SCHOOLS (AIRS) STAGE

5.9.3 AIR SCHOOLS (AIRS) STAGE

5.9.3.1 Purpose. To provide entry-level instruction to develop the basic skills necessary to safely embark, setup, operate, and maintain the AN/TPS-59A(V)3 Radar system, the AN/TPS-63B Radar system and the AN/UPX-37 Digital Interrogator. This training phase is complete upon graduation and assigned primary MOS.

5.9.3.2 General

Prerequisite. (1) Graduate from the Basic Electronics Course (CID: M092721).
(2) Meet the 5948 requirements delineated in the MOS Manual.

Admin Notes. Aviation Radar Maintenance Course (ARRC), MCCES, located in 29 Palms, CA.
Training track includes:
(1) Aviation Radar Fundamentals (CID: M0924X1).
(2) Aviation Radar Repair Course AN/TPS-63 (CID:M09A831)
(3) Aviation Radar Repair Course AN/TPS-59 (CID:M09A841)

Crew Requirements. None.

AIRS-1050 * B E G

Goal. Perform corrective maintenance on the AN/TPS-59A(V)3 Radar system to the Line Replaceable Unit (LRU).

Requirement. Given the references and an inoperative AN/TPS-59A(V)3 Radar system, complete the following steps:

1. Adhere to safety requirements.
2. Research applicable technical data pertaining to faulty equipment.
3. Read schematic diagrams.
4. Ensure proper handling of ESD components.

5. Set up test equipment.
6. Connect test equipment.
7. Measure basic circuit performance.
8. Trace signal paths.
9. Trace current/voltage paths.
10. Identify faulty subassembly(s).
11. Remove/replace faulty subassembly(s) as required.
12. Verify proper operation.
13. Research authorized modification and technical instructions.
14. Perform maintenance closeout procedures and ensure quality assurance checks.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1051 * B E G

Goal. Perform corrective maintenance on the AN/UPX-37 Digital Interrogator to the Line Replaceable Unit (LRU).

Requirement. Given the references, tools, test equipment, and a faulty AN/UPX-37, complete the following steps:

1. Adhere to safety requirements.
2. Research applicable technical data pertaining to faulty equipment.
3. Read schematic diagrams.
4. Ensure proper handling of ESD components.
5. Set up test equipment.
6. Connect test equipment.
7. Manipulate the user interface.
8. Configure operational parameters.
9. Measure circuit performance.
10. Perform alignments.
11. Trace signal paths.
12. Trace current/voltage paths.
13. Identify faulty subassembly(s).
14. Remove/replace faulty subassembly(s) as required.
15. Verify proper operation.
16. Research authorized modification and technical instructions.
17. Perform maintenance closeout procedures and ensure quality assurance checks.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10851A-12&P/B Digital Interrogator AN/UPX-37
2. TM 10851A-CD Maintenance Manual w/Repair Parts

AIRS-1052 * B E G

Goal. Assemble the AN/TPS-59A(V)3 Radar system.

Requirement. As a member of a crew, given tools, the reference and an AN/TPS-59A(V)3 emplaced per the reference, complete the following steps:

1. Assemble the Antenna-Transmitter Group.
    a. Couple the trailers.
    b. Remove the tarpaulins.
    c. Remove components.
    d. Emplace jack pads.
    e. Perform initial leveling.
    f. Place ground anchors.
2. Assemble the array.
    a. Prepare lower array.
    b. Prepare upper array.
    c. Couple lower array.
    d. Couple upper array.
    e. Finalize array assembly.
        (1) Install the wings.
        (2) Install the IFF antenna.
        (3) Install the auxiliary sub-arrays.
        (4) Install warning light and lightning rods.
        (5) Install back stays.
        (6) Connect jumper cables.
        (7) Raise the array.
        (8) Complete array assembly.
        (9) Stow tools and components.
3. Install maintenance platform.
4. Install air conditioners.
5. Cable system.
6. Ground system.
7. Test earth-ground conductivity.
8. Perform initial power energizing procedure.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1053 * B E G

Goal. Perform post emplacement procedures on the AN/TPS-59A(V)3 Radar system.

Requirement. Given an AN/TPS-59A(V)3 Radar and the reference, complete the following steps:

1. Perform ancillary equipment energizing procedure.
2. Perform tactical electronics energizing procedure.
3. Log-in.
4. Perform antenna leveling procedure.
5. Perform antenna north alignment procedure.
6. Perform data entry on system setup menus.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1054 * B E G

Goal. Perform alignment procedures on the AN/TPS-59A(V)3 Radar system.

Requirement. Given an operational AN/TPS-59A(V)3 Radar system, test equipment, tools, and the reference, complete the following steps:

1. Set up test equipment.
2. Connect test equipment.
3. Obtain reading.
4. Prepare equipment for alignment.
5. Perform alignment.
6. Perform operational checks.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1055 * B E G

Goal. Operate the AN/TPS-59A(V)3 Radar system.

Requirement. Given an AN/TPS-59A(V)3 Radar system and the reference, complete the following steps:

1. Configure radar for operational environment.
2. Select mission mode.
3. Bring to an operational state.
4. Verify proper radar performance characteristics.
5. Verify external interface.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1056 * B E G

Goal. Perform corrective maintenance on the AN/TPS-63B Radar system to the Line Replaceable Unit (LRU).

Requirement. Given the references and an inoperative AN/TPS-63B Radar system, complete the following steps:

1. Adhere to safety requirements.
2. Research applicable technical data pertaining to faulty equipment.
3. Read schematic diagrams.

4. Ensure proper handling of ESD components.
5. Set up test equipment.
6. Connect test equipment.
7. Measure circuit performance.
8. Trace signal paths.
9. Trace current/voltage paths.
10. Identify faulty subassembly(s).
11. Remove/replace faulty subassembly(s) as required.
12. Verify proper operation.
13. Research authorized modification and technical instructions.
14. Perform maintenance closeout procedures and ensure quality assurance checks.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1 Radar Set AN/TPS-63 System
2. TM 07736C-14/5 Radar Set AN/TPS-63 Transmitter Maintenance
3. TM 07736C-14/6 Radar Set AN/TPS-63 Antenna Maintenance
4. TM 07736C-14/7 Radar Set AN/TPS-63 Processor Maintenance
5. TM 07736C-14/10 Radar Set AN/TPS-63 Frequency Generator Maintenance
6. TM 07736C-14/10 Radar Set AN/TPS-63 Power Distribution Maintenance

AIRS-1057 * B E G

Goal. Perform alignment procedures on the AN/TPS-63B Radar system.

Requirement. Given an operational AN/TPS-63B Radar system, test equipment, tools, and the references, complete the following steps:

1. Set up test equipment.
2. Connect test equipment.
3. Obtain reading.
4. Prepare equipment for alignment.
5. Perform alignment.
6. Perform operational checks.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1 Radar Set AN/TPS-63 System
2. TM 07736C-14/5 Radar Set AN/TPS-63 Transmitter Maintenance
3. TM 07736C-14/6 Radar Set AN/TPS-63 Antenna Maintenance
4. TM 07736C-14/7 Radar Set AN/TPS-63 Processor Maintenance
5. TM 07736C-14/8 Radar Set AN/TPS-63 Frequency Generator Maintenance
6. TM 07736C-14/10 Radar Set AN/TPS-63 Power Distribution Maintenance

AIRS-1058 * B E G

Goal. Operate the AN/TPS-63B Radar system.

Requirement. Given an energized AN/TPS-63B Radar system and the references, complete the following steps:

1. Configure radar for operational environment.
2. Bring to an operational state.
3. Verify proper radar performance characteristics.
4. Verify external interface.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1 Radar Set AN/TPS-63 System
2. TM 07736C-14/1-2 Radar Set AN/TPS-63 System Technical Description
3. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
4. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook
5. TM 07736C-14/3 Radar Set AN/TPS-63 Operation Instructions

AIRS-1059 * B E G

Goal. Perform pre-operational checks on the AN/TPS-63B Radar system.

Requirement. Given an AN/TPS-63B Radar and the reference, complete the following steps:

1. Energize equipment.
2. Perform system leveling.
3. Perform system north alignment.
4. Verify system parameters.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 RADAR SET, AN/TPS-63

AIRS-1060 * B E G

Goal. Setup the AN/TPS-63B Radar system.

Requirement. As a member of a radar crew, given an AN/TPS-63B Radar system, a suitable site, and the references, complete the following steps:

1. Prepare site.
2. Unpack AN/TPS-63B.
3. Assemble AN/TPS-63B antenna.
4. Connect system cabling.
5. Verify proper power input.
6. Verify installation of Environmental Control Units.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
2. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook

AIRS-1061 * B E G

Goal. Prepare the AN/TPS-59A(V)3 Radar for relocation.

Requirement. As a member of a radar crew, given an AN/TPS-59A(V)3 radar system and the reference, complete the following steps:

1. Deenergize the radar set.

2. Lower the antenna array.
3. Disassemble the IFF antenna.
4. Disassemble the array.
5. Decouple the array.
6. Load the arrays.
7. Finalize disassembly and storage.
8. Decouple the trailers.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

AIRS-1062 * B E G

Goal. Prepare the AN/TPS-63B for relocation.

Requirement. As a member of a radar crew, given an AN/TPS-63B radar system and references, complete the following steps:

1. Remove the transmission line.
2. Lower the antenna.
3. Disassemble the antenna.
4. Disconnect ancillary equipment.
5. Pack the shelter.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
2. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook

AIRS-1063 * B E G

Goal. Install Identification Friend or Foe (IFF) equipment in the

AN/TPS-59A(V)3.

Requirement. Given an AN/UPX-37 and an AN/TPS-59A(V)3 Radar system and references, complete the following steps:

1. Mount equipment in rack.
2. Connect cables.
3. Configure AN/UPX-37.
4. Verify proper operation.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3
2. TM 10851A-12&P/B Digital Interrogator AN/UPX-37
3. TM 10851A-CD Maintenance Manual w/Repair Parts

AIRS-1064 * B E G

Goal. Install Identification Friend or Foe (IFF) equipment in the AN/TPS-63B Radar.

Requirement. Given an AN/UPX-37, an AN/TPS-63B Radar system, and the references, complete the following steps:

1. Mount equipment in rack.
2. Connect cables.
3. Configure AN/UPX-37.
4. Verify proper operation.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10851A-12&P/B Digital Interrogator AN/UPX-37
2. TM 10851A-CD Maintenance Manual w/Repair Parts

3. TM 07736C-14/1-1 Radar Set AN/TPS-63 System
4. TM 07736C-14/1-2 Radar Set AN/TPS-63 System Technical Description
5. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
6. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook
7. TM 07736C-14/3 Radar Set AN/TPS-63 Operation Instructions

AIRS-1121 * B E G

Goal. Describe the Marine Air Control Squadron (MACS).

Requirement. Given the references:

1. Describe the role of the MACS.
2. Describe the Headquarters Detachment.
3. Describe the Air Traffic Control Detachment.
4. Describe the Tactical Air Operations Center Detachment.
5. Describe the Early Warning and Control Detachment.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.3 Marine Air Command and Control System Handbook
2. MCWP 3-25.6 Sector Anti-Air Warfare Coordinator Handbook
3. MCWP 3-25.7 Tactical Air Operations Center Handbook

5.10 CORE SKILL TRAINING (2000)

5.10.1 Purpose. To develop core skill proficiency for 5948 personnel to be able to perform duties while assigned to the TAOC RADAR section.

(1) Basic Technicians will gain core skill proficiency in basic radar operations and maintenance.

(2) Advance Technicians will gain core skill proficiency in advanced radar operations and maintenance.

(3) Crew Chiefs will gain core skill proficiency in managing crew level radar operations , maintenance, and maintenance management. This training will provide the crew chief the skills necessary to run a radar crew.

(4) Maintenance Chiefs will gain core skill proficiency in supervising and managing a radar maintenance section.

5.10.2 General.

5.10.2.1 Prerequisite.

(1) Aviation Radar Basic Technician(ARBT). Core Skill Introduction training must be completed prior to beginning ACSBT training.

(2) Aviation Radar Advanced Technician (ARAT). Must be qualified as an ARBT prior to beginning ARAT training.

(3) Aviation Radar Chief (ARC) or Aviation Radar Chief 63 (ARC63). Must be qualified as an ARAT prior to beginning ARC or ARC63 training.

(4) Aviation Radar Maintenance Chief (ARMC). Must be qualified as an ARAT prior to beginning ARMC training.

5.10.2.2 Admin Notes.

(1) Training in this phase does not preclude simultaneous training in the mission skill and core plus phases provided applicable prerequisites have been met.

(2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

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

PAR NO.	STAGE NAME
5.10.3	MACCS MAINTENANCE COMMON (CMN)
5.10.4	TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE)
5.10.5	COMMUNICATION SECURITY (COMSEC)
5.10.6	FAMILIARIZATION (FAM)
5.10.7	COLLATERAL DUTY (CD)
5.10.8	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
5.10.9	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
5.10.10	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
5.10.11	IDENTIFICATION FIREND OR FOE (IFF)
5.10.12	RADAR (RDR)
5.10.13	LONG RANGE RADAR (LRR)
5.10.14	MEDIUM RANGE RADAR (MRR)
5.10.15	MAINTENANCE MANAGEMENT (MMGT)
5.10.16	OPERATIONAL MANAGEMENT (OMGT)

5.10.3 MACCS MAINTENANCE COMMON (CMN) STAGE

5.10.3.1 Purpose. To teach the trainee common skills to all 5900 MOSs within the MACCS.

5.10.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

CMN-2150 2.0 * B L

Goal. Conduct an SL-3 inventory.

Requirement. Given the references and a piece of equipment with its record jacket containing an SL-3 extract, perform the following:

1. Validate inventory reference in SL 1-2.
2. Verify UURI authorization.
3. Identify and document on-hand, missing, or unserviceable components.
4. Document completed inventory findings in the record jacket.
5. Initiate supply action to replace missing and/or unserviceable components.
6. Obtain a "supervised by" signature.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO p4400.150_
2. MCO P4790.2_
3. Applicable equipment SL-3 or TM

CMN-2151 1.5 * B L

Goal. Identify the purpose of Preventive Maintenance Checks and Services (PMCS).

Requirement. Given an end item, completed NAVMC 10561, and applicable references, perform the following:

1. State the purpose of PMCS.
2. Identify the PM frequency.
3. Identify PM procedures.
4. Interpret the entries listed on the provided PMCS roster.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 4700-15/_
2. NAVMC 10561
3. MCO P4790.2_
4. Applicable technical manuals
5. UM 4400.125 (Draft)

CMN-2152 2.0 * B L

Goal. Submit a Product Quality Deficiency Report (PQDR).

Requirement. Given the reference, equipment or a scenario:

1. State the criteria under which the PQDR should be submitted.
2. Complete the PQDR.
3. Explain the squadron's internal process for submitting a PQDR.
4. Identify the procedure to follow up with the PQDR.
5. Discuss external process flow of the PQDR.

Performance Standard. Submit to the evaluator a correctly formatted PQDR IAW the reference without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. Unit MMSOP
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5_, Product Quality Deficiency Report Program
5. http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf.
6. https://www.pdrep.csd.disa.mil/pdrep_files/training/

online_train.htm

CMN-2153 3.0 * B Grnd Rod Kit/MK-2551A/U L

Goal. Demonstrate an earth ground installation.

Requirement. Given the references, grounding kit and PPE, perform the following:

1. Identify ground tolerances for equipment and personnel.
2. Identify methods of grounding.
3. Identify a method for improving a ground.
4. Identify proper location to test a ground.
5. Install an earth ground using a:
    a. Grounding rod.
    b. MK-2551A/U Grounding Kit (SWGS).
6. Verify proper grounding reading utilizing appropriate test equipment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2173

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 9406-15 Ground Procedures Manual
2. TC 11-6 Grounding Techniques

CMN-2154 2.0 * B,R L

Goal. Describe the characteristics of unit T/E generators.

Requirement. Identify the following:
    1. Frequency.
    2. Voltage(s).
    3. Load capacity.
    4. Fuel consumption.

Performance Standard. With the aid of reference, pass an exam on the above list without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 12359A-OD/B Technical Characteristics Expeditionary Power Systems, Equipment

CMN-2158 1.0 * B Tool box L

Goal. Demonstrate how to maintain a tool box.

Requirement. Given the references and a tool box, complete the following steps to sustain tool accountability and serviceability:

1. State the purpose of a tool box and assigned responsibilities.
2. Ensure tool box record jacket is current.
3. Conduct an SL-3 inventory of all tools in the tool box.
4. PM each tool and ensure it is serviceable.
5. State the process for replacement of the unserviceable tools.
6. State the process for replacement of missing tools.
7. Ensure proper documentation.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MMO SOP
2. MCO P4790.2_
3. MCO p4400.150_
4. Supply instruction
5. Applicable SL-3 for tool box

CMN-2159 1.0 * B,R GCSS L

Goal. Initiate a service request.

Requirement. Given a piece of equipment requiring a service request, NAVMC 1018, and a computer with GCSS access, perform the following:

1. Login to GCSS.
2. Open a new service request.
3. Fill out a NAVMC 1018 Inspection/Repair Tag (IRT).
4. Forward service request to the next level IAW SOP.

Performance Standard. With the aid of reference, complete the requirements IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. Appropriate GCSS access

Reference.
1. UM 4790.5
2. TM 4700-15/1_
3. MCO P4790.2_
4. MCBUL 3000
5. MCO P4400.16_
6. Unit Maintenance Administration SOP

5.10.4 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) STAGE

5.10.5.1 Purpose. To teach the trainee how to use various test equipment that will be used in the performance of their assigned duties.

5.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

TMDE-2170 2.0 * B USM-674 L

Goal. Compare circuit card performance against a gold disk.

Requirement. Given a Circuit Board Tester, circuit card, a list of ten components to test, gold disk, and references, perform the following:

1. State the purpose of a Circuit Board tester.
2. Configure test set up for appropriate circuit card.
3. Test the circuit card.
4. Report the results.

Performance Standard. Report the results. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor

errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. AN/USM-674 user's manual

TMDE-2171 2.0 * B,R Oscilloscope L

Goal. Utilize an oscilloscope.

Requirement. Given the references, an oscilloscope and a signal generator:

1. State the purpose of an oscilloscope.
2. Verify calibration is current.
3. Measure a signal.
4. Report the results.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2172

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 11277A-OI/1 OSCILLOSCOPE TDS 5054B-NV-AVTM 11277A-ID/2 OSCILLOSCOPE TDS 5054B-NV-AV

TMDE-2172 2.0 * B,R Signal generator L

Goal. Demonstrate the use of a signal generator.

Requirement. Given a signal generator demonstrate the following:

1. Verify current calibration.
2. Configure signal generator for output.

3. Verify output.

Performance Standard. Report the results without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable signal generator manual and equipment TM

TMDE-2173 2.0 * B,R R1L-C L

Goal. Utilize a Ground Tester.

Requirement. Given a ground tester, grounded equipment, and references:

1. State the purpose of a ground tester.
2. Verify calibration is current.
3. Measure resistance to ground in ohms.
4. State whether the ohm level is within tolerance.
5. Adhere to safety procedures.

Performance Standard. With the aid of reference, demonstrate proper use of the ground tester and measure ground resistance in ohms, report results without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 9406-15
2. TM 10069A-14 O&M w/IPB R1L-C

TMDE-2174 2.0 * B,R Power Meter L

Goal. Utilize a Power Meter.

Requirement. Given the references, a Power Meter and a signal generator:

1. State the purpose of a Power Meter.
2. Verify calibration is current.
3. Measure a signal.

Performance Standard. Report the results without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable Power Meter manual and equipment TM

TMDE-2175 1.0 * B,R Multimeter L

Goal. Utilize a multimeter.

Requirement. Given a multimeter, cable, and references:

1. State the purpose of the multimeter.
2. Verify calibration is current.
3. Perform continuity check on a cable or wire.
4. Measure resistance.
5. Measure voltage (AC and DC).
6. Adhere to safety procedures.

Performance Standard. With the aid of reference, demonstrate the proper use of a multimeter by completing the requirements without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable user manual

TMDE-2176 1.0 * B,R Spectrum Analyzer L

Goal. Measure an RF signal with a spectrum analyzer.

Requirement. Given a spectrum analyzer and applicable reference,

complete the following:

1. State the purpose of a spectrum analyzer.
2. Verify current calibration.
3. Set reference level.
4. Measure a signal.
5. Center the signal within the display.
6. Maximize the frequency span to best display the signal.

Performance Standard. Report the results without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Spectrum analyzer user's manual

5.10.5 COMMUNICATION SECURITY (COMSEC) STAGE

5.10.5.1 Purpose. To teach the trainee safe handling and storage of classified material, use of common fill devices, crew changeover procedures, and provide familiarization with the EKMS COMSEC callout. Additionally, trainee learns to identify and load CCI devices.

5.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

COMSEC-2190 2.0 365 B,R,M L

Goal. Describe proper handling and storage of classified materials.

Requirement. Perform the following:

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 (CCIs).

Performance Standard. With the aid of reference, state the above requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5510.18_
2. EKMS-1_
3. SECNAVINST 5510.36
4. UNIT SOP

COMSEC-2191 2.0 365 B,R,M L

Goal. State the physical security requirements for classified areas.

Requirement. Given a tactical scenario and references, identify the following:

1. Purpose of a guard schedule.
2. Purpose of access control.
3. Purpose of the entry control point.
4. Perimeter barrier requirements.

Performance Standard. With the aid of reference, pass an exam without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

COMSEC-2192 2.0 365 B,R,M L

Goal. Create a classified area physical security diagram.

Requirement. Given a tactical scenario and references, create a

diagram that includes the following:

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.

Performance Standard. With the aid of reference, draw a diagram depicting the information listed in the requirement without error; instructor will validate that the diagram supports the scenario. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2191

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

COMSEC-2193 2.0 365 B,R,M L

Goal. Conduct classified material inventory.

Requirement. During a crew change over, perform the following:

1. Conduct classified material inventory.
2. Conduct EKMS inventory.
3. Destroy superseded key materials.

Performance Standard. With the aid of reference, conduct the requirements without discrepancy.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1A
2. 5530

COMSEC-2194 2.0 * B,R L

Goal. Extract key material information from EKMS COMSEC callout.

Requirement. Given an EKMS COMSEC callout and references, perform the following:

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

Performance Standard. With the aid of reference, state the purpose and identify the key information on the callout without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. MCWP 3-40.3

COMSEC-2195 2.0 365 B,R,M L

Goal. Utilize a Common Fill Device.

Requirement. Given (2) loaded common fill devices and a zeroized cryptographic device, perform the following:

1. Describe the purpose of common fill device.
2. Define the common fill device loading procedure.
3. Configure the common fill device.
4. Identify common fill device indicators and messages.
5. Transfer key material to Controlled Cryptographic Item (CCI) equipment.
6. Transfer cryptographic information from common fill device to common fill device.
7. Destroy superseded keying material within the cryptographic fill device.

Performance Standard. With the aid of reference, load keying material into appropriate COMSEC equipment using a fill device and destroy superseded keying material without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_

COMSEC-2196 2.0 * B L

Goal. Ensure CMCC handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify classified material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify classified material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. SECNAV 5510.36_
2. MCO 5510.18_
3. UNIT SOP
4. EKMS-1_

COMSEC-2197 2.0 * B L

Goal. Ensure EKMS material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify EKMS material is stored IAW the reference.
2. Verify proper destruction of material IAW the reference.
3. Verify EKMS material is transported IAW the reference.

Performance Standard. With the aid of reference, validate EKMS material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. UNIT SOP

COMSEC-2198 1.0 * B L

Goal. Ensure CCI material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify CCI material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify CCI material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. UNIT SOP

COMSEC-2199 2.0 365 B,R,M L

Goal. Ensure physical security of classified areas.

Requirement. Given references and a classified area, verify the following:

1. Guard schedule.
2. Access Control.
3. Perimeter barrier.

Performance Standard. Verify the physical security of the classified

area IAW the references. Complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2191, 2192

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

5.10.6 FAMILIARIZATION (FAM) STAGE

5.10.6.1 Purpose. To familiarize the trainee on non-MOS equipment.

5.10.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

FAM-2210 2.0 * B L

Goal. Describe HF, VHF, UHF, SATCOM radio characteristics.

Requirement. Given a list of radio equipment, describe the following characteristics for each:

1. AN/VRC 103.
   a. Frequency range.
   b. Power output.
   c. Types of antennas.
2. AN/VRC 104.
   a. Frequency range.
   b. Power output.
   c. Types of antennas.
4. AN/GRC 171B(V)4.
   a. Frequency range.
   b. Power output.
   c. Types of antennas.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-09780A-13&P/1 Radio Set AN/GRC-171B(V)4
2. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
3. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

FAM-2211 3.0 * B L

Goal. State the purpose of Automated Data Processing Equipment (ADPE).

Requirement. Given references, Network Switch, Router, Server, and Workstation and complete the following:

1. State the purpose for each.
2. Identify software components for each.
3. Identify hardware components for each.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable user manuals

FAM-2212 2.0 * B L

Goal. Describe the CAC2S.

Requirement. Given a CAC2S and IETM, complete the following:

1. Identify the purpose of the CAC2S.
2. Identify its functions.
3. Identify software.
4. Identify hardware components.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CAC2S IETM

FAM-2213 3.0 * B L

Goal. Define Tactical Data Links characteristics.

Requirement. Given the references, perform the following:

1. State the capability of Link 11.
2. State the capability of Link 11B.
3. State the capability of Link 16.
    a. JREAP A.
    b. JREAP B.
    a. JREAP C.
4. State the capability of Army Tactical Data Link-1 (ATDL).
5. State the capability of NATO Link 1.
6. State the capability of Intelligence Broadcast System (IBS).
7. State the capability of Common Operational Picture (COP) Synch Tool (CST).
8. State the capability of Ground Based Data Link Enhanced (GBDLE).
9. List the types of units that utilize each link.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSI 6610.01D, Joint Multi-TADIL Operating Procedures
2. MIL-STD-6011, Link-11/11B

3. MIL-STD-6016, Link-16
4. STANAG 4175, Link 16 terminal (MIDS)

FAM-2214 1.0 * B L

Goal. Describe MTAOM equipment.

Requirement. Given the references:

1. Describe the purpose of the System Level Equipment.
2. Describe the purpose of the Digital communications Equipment.
3. Describe the Purpose of the Voice Communications Equipment.
4. Describe the Purpose of the Data Processing Equipment.
5. Describe the Purpose of the Internal Radio Equipment.
6. Describe the Purpose of the Operator interface Equipment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 08611B-OI MTAOM Operations and Organizational Maintenance Manual

FAM-2215 1.0 * B L

Goal. Describe Commanders Tactical Terminal (CTT) equipment.

Requirement. Given the reference:

1. Describe the purpose of the CTT antenna equipment.
2. Describe the purpose of the CTT Host.
3. Describe the purpose of the CTT radio.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10389-12 CTT Operators & Unit Maintenance Manual
2. TM 10389-30 CTT Direct Support Maintenance Manual

FAM-2216 2.0 * B L

Goal. Identify the Intelligence Operations Workstation (IOW).

Requirement. Given the references and an IOW:

1. Describe the purpose of the IOW.
2. Describe the function of the IOW.
3. Describe software on the IOW.
4. Describe hardware components.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. IOS/IOW User's Manual
2. SL-3-10848D
3. MarineNet – C2PC Course Code C2P001

FAM-2217 1.0 * B L

Goal. Describe T/E radios.

Requirement. Describe the characteristics for the following:

1. AN/VRC 103.
    a. Frequency range.
    b. Power output.
    c. Types of antennas.
2. AN/VRC 104.
    a. Frequency range.
    b. Power output.
    c. Types of antennas.
3. AN/VRC 110.

a. Frequency range.
b. Power output.
c. Types of antennas.

4. AN/GRC 171B(V)4.
   a. Frequency range.
   b. Power output.
   c. Types of antennas.
5. AN/GRC-256
   a. Frequency range
   b. Power output
   c. Types of antennas.
6. AN/USQ-140(V)2
   a. Frequency range
   b. Power output
   c. Types of antennas.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-09780A-13&P/1 Radio Set AN/GRC-171B(V)4
2. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
3. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

FAM-2218 1.0 * B L

Goal. Describe C2 Applications.

Requirement. Given the references describe purpose of the following:

1. TBMCS.
2. AFATDS.
3. C2PC.
4. JADOCS.
5. Transverse (chat program).

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TBMCS SUMs

FAM-2222 1.0 * B L

Goal. Describe TACLAN.

Requirement. Given the references, perform the following:

1. Describe the purpose of the KG-175 TACLAN.
2. State the purpose of the KG-175 TACLAN.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

FAM-2223 1.0 * B L

Goal. Identify the major components of the Composite Tracking Network (CTN).

Requirement. Given the references, perform the following:

1. Describe the characteristics of the Cooperative Engagement Capability.
2. Describe the characteristics of the antenna.
3. Describe the characteristics of the AN/USG-4A.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Operational Tasking Cooperative Engagement Capability (OPTASKCEC)
2. TM 11406A-OR/2 Command System Tactical AN/MSQ-143
3. TM 11406A-ORG Command System Tactical AN/MSQ-143
4. TM 11406A-OI AN/USG-4A Composite Tracking Network
5. TM 08611B/10987A/11406A-OR/1 Telescopic Mast Family
6. TM 08611B/10987A/11406A-OR/2 Erection Instructions CSA Fanlite
7. TM 08611B/10987A/11406A-OR/3 Appendix G CSA Fanlite

5.10.7 COLLATERAL DUTY (CD) STAGE

5.10.7.1 Purpose. To familiarize the trainee on the duties and responsibilities of each collateral duty in a maintenance shop.

5.10.7.2 General

Prerequisite. None

Admin Notes. Familiarization of all maintenance collateral duties gives the technician an awareness of the different essential functions required within the maintenance section.

Crew Requirements. None

CD-2230 8.0 * B,R L

Goal. State the maintenance Collateral Duties (CD).

Requirement. Receive an overview from each collateral duty holder, and at a minimum must be able to state the following:

1. Calibration CD.
   a. State the purpose of the TMDE program.
   b. State the duty responsibilities.
2. Modification CD.
   a. State the purpose of the modification program.
   b. State the duty responsibilities.
3. Tool Control CD.
   a. State the purpose of the tool control program.
   b. State the duty responsibilities.
4. Publications CD.
   a. State the purpose of the publications program.
   b. State the duty responsibilities.
5. Safety CD.
   a. State the purpose of the safety program.

b. State the duty responsibilities.

6. Hazmat CD.
   a. State the purpose of the HAZMAT program.
   b. State the duty responsibilities.
7. Embarkation.
   a. State the purpose of the embarkation program.
   b. State the duty responsibilities.
8. MIMMS.
   a. State the purpose of the MIMMS program.
   b. State the duty responsibilities.
9. Records.
   a. State the purpose of the records program.
   b. State the duty responsibilities.
10. Quality Control.
   a. State the purpose of the quality control program.
   b. State the duty responsibilities.
11. Training Program
   a. State the purpose of the Training program.
   b. State the duty responsibilities.

Performance Standard. verbally state the purpose and responsibilities of each CD without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 5210.11E
2. MCO P5125.17C
3. MCO 4790.2_
4. TM 4700-15/1_
5. Applicable CD Desktops
6. MCO 5100.29_
7. MMO SOP
8. MCO 4790.1
9. MCO 5600.1

CD-2231 1.0 * B L

Goal. Identify the Maintenance Calibrations Program.

Requirement. Given three pieces of Test Measurement and Diagnostic Equipment (TMDE), verify the following:

1. TMDE is correctly marked with calibrations information.
2. Calibration date is current.

Performance Standard. With the aid of reference, complete the

requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. MMO SOP

CD-2232 2.0 * B L

Goal. Identify the Maintenance Modifications Program.

Requirement. Given the references, perform the following:

1. Describe the purpose of the maintenance modification program.
2. Demonstrate how modifications are:
    a. Identified.
    b. Verified.
    c. Recorded.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. PLMS
2. MCO P4790.2C
3. TM-4700-15/1H
4. Maintenance Modifications Program CD Desktop

CD-2233 2.0 * B L

Goal. Identify the Tool Control Program.

Requirement. Given the references, perform the following:

1. Identify elements in the Tool Control Desktop Procedures binder.
2. Describe tool control procedures:
    a. Inventory schedule.
    b. Check-in/Check-out.
    c. Tool replacement.
2. Conduct serviceability inspection of tools and tool boxes.
3. Submit special tool allowance authorization request.
4. Identify tools with special calibration requirements and submit for inclusion in Calibrations Program.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. TM 4795-OR/1A
3. MMSOP

CD-2234 2.0 * B L

Goal. Identify the Maintenance Publications Library.

Requirement. Given the references, perform the following:

1. Demonstrate how to locate required publications for specific equipment.
2. Demonstrate how to verify publications are up-to-date.
3. Describe the purpose of Publications Library Management System (PLMS).
4. Fill out a NAVMC 10772.

Performance Standard. With the aid of reference, demonstrate the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 5210.11E
2. MCO P5125.17C
3. PLMS
4. MCO P4790.2
5. MMO SOP
6. Maintenance Publications Library Desktop

CD-2235 2.0 * B L

Goal. Identify major Maintenance Safety Program elements.

Requirement. Given the references, perform the following:

1. Define and identify the purpose of Lock-out/Tag-out.
2. Demonstrate lock-out/tag-out procedures.
3. Eliminate the effects of ESD on electronic components.
    a. Define ESD.
    b. Setup ESD workstation.
    c. Demonstrate proper use of ESD workstation during repair of ESD sensitive circuit.
    d. Demonstrate proper packaging and handling of ESD sensitive material.
4. Describe hazard prevention as it applies to:
    a. Electrical hazards.
    b. Eye hazards.
    c. Hearing hazards.
    d. RF hazards.
    e. Fire hazards.
5. Identify HAZMAT procedures.
    a. State purpose of a Material Safety Data Sheets (MSDS).
    b. Properly store and label HAZMAT materials.
    c. Demonstrate proper usage of Personal Protective Equipment (PPE).
    d. State the purpose of and locate and read safety board.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 5100.29_
2. MCO 4450.12_
3. MCO 5100.8_

4. TM 07751B Series
5. TM 07736C Series
6. OSHA standard 29 CFR 1910.147
7. Electro Discharge Mgmt (ESD) TM-9999-15/2
8. Maintenance Safety Program Desktop

CD-2236 2.0 * B L

Goal. State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.

Requirement. Given an MSDS and references, perform the following:

1. State the purpose of MSDS.
2. List the section of an MSDS.
   a. Chemical identity.
   b. Manufactures name and contact information.
   c. Hazardous ingredients/identity information.
   d. Physical/chemical characteristics.
   e. Fire and explosion hazard data.
   f. Reactivity data.
   g. Health hazard data.
   h. Precautions for safe handling and use.
   i. Control measures.
3. State the purpose of the MSDS center.
4. Locate the MSDS compliance center in the maintenance department.

Performance Standard. With the aid of the MSDS Binder, state the purpose and components of a Material Safety Data Sheet (MSDS) without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Maintenance Safety SOP
2. MSDS binder
3. 29 CFR 1910.1200
4. MCO 4450-12
5. MCO P4790.2_
6. Associated Desktop
7. OSHA 29 CFR refer to http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=10099

CD-2237 3.0 * B L

Goal. Identify the key elements of the Maintenance Embarkation

Program.

Requirement. Given the references, perform the following:

1. State the purpose of the maintenance embarkation program.
2. State the purpose of the equipment density list (EDL).
3. List length, width, height, and weight of major end items.
4. Identify ground equipment transportation requirements.
5. Identify Heavy Equipment (HE) requirements needed for systems movement.

Performance Standard. With the aid of reference, identify the five key elements listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 4-11.3_ Unit Embarkation Handbook
2. MCO P4790.2_
3. Technical Manuals
4. Maintenance Embarkation Program Desktop

CD-2238 1.0 * B L

Goal. Identify the equipment record jacket.

Requirement. Given the references and a record jacket, perform the following:

1. State the purpose of a record jacket.
2. State the minimum content requirements for an equipment record jacket.
3. State the destruction instructions for each document within the record jacket.
4. State the local policy for disposition of inactive record jackets.
5. Inspect the record jacket content for completeness.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. TM-4700-15/1_
3. MCO 5210.11E

CD-2240 2.0 1460 B,R,M L

Goal. Perform Quality Control Procedures.

Requirement. Given the references and equipment records, perform the following:

1. Identify maintenance QC procedures.
2. List all the QC areas within your section.
3. State the frequency of the QC checks for each area.
4. Conduct a QC inspection on a selected piece of equipment:
    a. Ensure equipment is being maintained to equipment standards.
    b. Ensure quality controls are being adhered to.
    c. Ensure inspection standards, checklists or templates being used to inspect completed maintenance actions.
    d. Ensure equipment specifications are being recorded within tolerance levels IAW TM.
    e. Verify the repair process is properly implemented by ensuring that:
        (1) Proper tools were used.
        (2) ESD procedures were used.
        (3) Safety warnings were adhered to.
        (4) Necessary defective parts were replaced.
        (5) Correct software was used, as applicable.
        (6) Proper GCSS entries are annotated on the Service Request throughout the Maintenance Cycle.
5. Write a report identifying discrepancies.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. MMO SOP
3. Applicable TMs
4. UM 4400-125 (Draft)

CD-2243 2.0 * B L

Goal. Identify the Maintenance Training program.

Requirement. Given the references, perform the following:

1. Describe the purpose of the maintenance training program.
2. List annual training requirements.
3. List requirements for maintenance management training.
4. Explain the purpose of the Aviation T&R program.
5. Explain how training is tracked within the Aviation T&R program.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP
2. MCO p4790.2_
3. NAVMC 3500.14_
4. MCRP 3-01_

5.10.8 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

5.10.8.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.10.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-2250 4.0 * B E L

Goal. Explain PC hardware.

Requirement. Without the aid of references, perform the following:

1. Explain and apply BIOS settings.
2. Differentiate between motherboard components, their purposes, and properties.
3. Compare RAM types and features.
4. Explain the installation and configuration of expansion cards.
5. Explain installation and configuration of storage devices and appropriate media.
6. Differentiate among various CPU types and features and select the appropriate cooling method.
7. Compare various connection interfaces and explain their purpose.
8. Identify the appropriate power supply based on a given scenario.
9. Evaluate and select appropriate components for a custom configuration, to meet customer specifications or needs.
10. Given a scenario, evaluate types and features of display devices.
11. Identify connector types and associated cables.
12. Explain the installation and configuration of various peripheral devices.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2251 4.0 * B E L

Goal. Explain networking concepts.

Requirement. Without the aid of references, perform the following:

1. Identify types of network cables and connectors.
2. Categorize characteristics of connectors and cabling.
3. Explain properties and characteristics of TCP/IP.
4. Explain common TCP and UDP ports, protocols, and their purpose.
5. Compare wireless networking standards and encryption types.
6. Install, configure, and deploy a SOHO wireless/wired router using appropriate settings. 7. Compare Internet connection types and features.

8. Identify various types of networks.
9. Compare network devices their functions and features.
10. Given a scenario, use appropriate networking tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2252 4.0 * B E L

Goal. Explain laptop features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Install and configure laptop hardware and components.
2. Compare the components within the display of a laptop.
3. Explain the differences between the various printer types and summarize the associated imaging process.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2253 4.0 * B E L

Goal. Explain printer features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Explain the differences between the various printer types and

summarize the associated imaging process.
2. Given a scenario, install, and configure printers.
3. Given a scenario, perform printer maintenance.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2254 4.0 * B E L

Goal. Explain operational procedures.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, use appropriate safety procedures.
2. Explain environmental impacts and the purpose of environmental controls.
3. Given a scenario, demonstrate proper communication and professionalism.
4. Explain the fundamentals of dealing with prohibited content/activity.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2255 4.0 * B E L

Goal. Explain operating systems.

Requirement. Without the aid of references, perform the following:

1. Compare the features and requirements of various Microsoft Operating Systems.
2. Given a scenario, install, and configure the operating system using the most appropriate method.
3. Given a scenario, use appropriate command line tools.
4. Given a scenario, use appropriate operating system features and tools.
5. Given a scenario, use Control Panel utilities (the items are organized by "classic view/large icons" in Windows).
6. Setup and configure Windows networking on a client/desktop.
7. Perform preventive maintenance procedures using appropriate tools.
8. Explain the differences among basic OS security settings.
9. Explain the basics of client-side virtualization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2256 4.0 * B E L

Goal. Explain security.

Requirement. Without the aid of references, perform the following:

1. Apply and use common prevention methods.
2. Explain the implementation of security best practices to secure a workstation.
3. Given a scenario, use the appropriate data destruction/disposal method.
4. Given a scenario, secure a SOHO wireless network.
5. Given a scenario, secure a SOHO wired network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2257 4.0 * B E L

Goal. Explain Mobile Devices.

Requirement. Without the aid of references, perform the following:

1. Explain the basic features of mobile operating systems.
2. Establish basic network connectivity and configure email.
3. Compare methods for securing mobile devices.
4. Compare hardware differences in regards to tablets and laptops.
5. Execute and configure mobile device synchronization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2258 4.0 * B E L

Goal. Explain Troubleshooting.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, explain the troubleshooting theory.
2. Given a scenario, troubleshoot common problems related to motherboards, RAM, CPU and power with appropriate tools.
3. Given a scenario, troubleshoot hard drives and RAID arrays with appropriate tools.
4. Given a scenario, troubleshoot common video and display issues.
5. Given a scenario, troubleshoot wired and wireless networks with appropriate tools.
6. Given a scenario, troubleshoot operating system problems with appropriate tools.
7. Given a scenario, troubleshoot common security issues with appropriate tools and best practices.
8. Given a scenario, troubleshoot, and repair common laptop issues while adhering to the appropriate procedures.
9. Given a scenario, troubleshoot printers with appropriate tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.10.9 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

5.10.9.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.10.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-2259 4.0 * B E L

Goal. Explain Networking Concepts.

Requirement. Without the aid of references, perform the following:

1. Compare the layers of the OSI and TCP/IP models.
2. Classify how applications, devices, and protocols relate to the OSI model layers.
3. Explain the purpose and properties of IP addressing.
4. Explain the purpose and properties of routing and switching.
5. Identify common TCP and UDP default ports.
6. Explain the function of common networking protocols.
7. Summarize DNS concepts and its components.
8. Given a scenario, implement the following network troubleshooting methodology.
9. Identify virtual network components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2260 4.0 * B E L

Goal. Explain Network Installation and Configuration.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, install and configure routers and switches.
2. Given a scenario, install and configure a wireless network.
3. Explain the purpose and properties of DHCP.
4. Given a scenario, troubleshoot common wireless problems.
5. Given a scenario, troubleshoot common router and switch problems.
6. Given a set of requirements, plan and implement a basic SOHO network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2261 4.0 * B E L

Goal. Explain Network Media and Topologies.

Requirement. Without the aid of references, perform the following:

1. Categorize standard media types and associated properties.
2. Categorize standard connector types based on network media.
3. Compare different wireless standards.
4. Categorize WAN technology types and properties.
5. Describe different network topologies.
6. Given a scenario, troubleshoot common physical connectivity problems.
7. Compare different LAN technologies.
8. Identify components of wiring distribution.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2262 4.0 * B E L

Goal. Explain Network Management.

Requirement. Without the aid of references, perform the following:

1. Explain the purpose and features of various network appliances.
2. Given a scenario, use appropriate hardware tools to troubleshoot connectivity issues.
3. Given a scenario, use appropriate software tools to troubleshoot connectivity issues.
4. Given a scenario, use the appropriate network monitoring resource to analyze traffic.
5. Explain the purpose of configuration management documentation.
6. Explain different methods and rationales for network performance optimization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2263 4.0 * B E L

Goal. Explain Network Security.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, implement appropriate wireless security measures.
2. Explain the methods of network access security.
3. Explain methods of user authentication.
4. Explain common threats, vulnerabilities, and mitigation techniques.
5. Given a scenario, install and configure a basic firewall.
6. Categorize different types of network security appliances and methods.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.10.10 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST) STAGE

5.10.10.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.10.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-2264 4.0 * B E L

Goal. Explain Network Security.

Requirement. Without the aid of reference, perform the following:

1. Explain the security function and purpose of network devices and technologies.
2. Describe the implementation of secure network administration principles.
3. Describe between network design elements and components.
4. Describe the use common protocols.
5. Identify commonly used default network ports.
6. Describe the implementation of a wireless network in a secure manner.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2265 4.0 * B E L

Goal. Explain Operational Security.

Requirement. Without the aid of reference, perform the following:

1. Explain risk related concepts.
2. Explain appropriate risk mitigation strategies.
3. Explain appropriate incident response procedures.
4. Explain the importance of security related awareness and training.
5. Compare aspects of business continuity.
6. Explain the impact and proper use of environmental controls.
7. Execute disaster recovery plans and procedures.
8. Explain the concepts of confidentiality, integrity and availability (CIA).

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2266 4.0 * B E L

Goal. Explain threats and vulnerabilities.

Requirement. Without the aid of reference, perform the following:

1. Explain the types of malware.
2. Explain types of attacks.
3. Explain types of social engineering attacks.
4. Explain types of wireless attacks.
5. Explain types of application attacks.
6. Explain types of mitigation and deterrent techniques.
7. Explain assessment tools and techniques to discover security threats and vulnerabilities.
8. Within the realm of vulnerability assessments, explain the proper use of penetration testing versus vulnerability scanning.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2267 4.0 * B E L

Goal. Explain cryptography.

Requirement. Without the aid of reference, perform the following:

1. Summarize general cryptography concepts.
2. Explain the appropriate cryptographic tools and products.
3. Explain the core concepts of public key infrastructure.
4. Explain the Implementation of PKI, certificate management and associated components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2268 4.0 * B E L

Goal. Explain access control and identity management.

Requirement. Without the aid of reference, perform the following:

1. Explain the function and purpose of authentication services.
2. Explain the fundamental concepts and best practices related to authentication, authorization and access control.
3. Explain the Implementation of appropriate security controls when performing account management.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2269 4.0 * B E L

Goal. Explain application, data and host security.

Requirement. Without the aid of reference, perform the following:

1. Explain the importance of application security.
2. Explain the appropriate procedures to establish host security.
3. Explain the importance of data security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.10.11 IDENTIFICATION FRIEND OR FOE (IFF) STAGE

5.10.11.1 Purpose. To train the trainee on IFF equipment within the radars of the TAOC.

5.10.11.2 General

Prerequisites. None

Admin Notes. None

Crew Requirements. None

IFF-2350 2.0 * B L

Goal. Describe the Identification Friend or Foe (IFF) Mark XII/XIIA components.

Requirement. Given references, describe the functions of the following:

1. Interrogator Set.
2. Switching Group.
3. Mode 4 Junction Device.

Performance Standard. With the aid of reference, physically identify the above items and verbally describe the functions of each item without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 2005-XXX
2. TM-10851A-12@p/B

IFF-2351 1.0 * B,R UPX-37, radar L

Goal. Configure the Interrogator Set for operations within the radar.

Requirement. Given the references, radar, and an Interrogator Set configure the Interrogator Set for operation on a radar system.

Performance Standard. With the aid of reference, complete the requirement without error to display IFF targets on the radar display console. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10851A-12&P/B Digital Interrogator AN/UPX-37

IFF-2352 2.0 * B UPX-37, radar L/S

Goal. Perform corrective maintenance on the Interrogator Set.

Requirement. Given the references, tools, TMDE, and an Interrogator set with an actual fault (preferred) or a simulated scenario describing a fault in the Interrogator Set, and evaluator feedback, complete the following:

1. Identify the faulty module utilizing required publications, tools, Built In Test (BIT) results and TMDE as applicable.
2. Determine location of the faulty module.
3. Remove the module (live) or describe module removal (simulated).
4. Replace the module (live) or describe module replacement (simulated).
5. Verify correct operation using necessary means, tools, equipment, and BIT.

Performance Standard. With the aid of reference, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10851A-12&P/B Digital Interrogator AN/UPX-37
2. TM 10851A-CD Maintenance Manual w/Repair Parts

IFF-2353 2.0 * B,R UPX-37, TPS-59 L

Goal. Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the LRR.

Requirement. Given the reference, conduct the following:

1. State the purpose of the Mk XIIA IFF system.
2. Describe the theory of operation of the IFF system to the block diagram level.
3. Describe the theory of operation of Modes 1, 2, 3, C, 4 within the AN/TPS-59A(V)3.
4. Describe the IFF side lobe Suppression within the AN/TPS-59A(V)3.
    a. Describe the relative power levels of the challenge pulses and the side lobe suppression pulse.
    b. Explain the effect of side lobe suppression on an interrogation received outside the main lobe.

Performance Standard. With the aid of the applicable schematic or functional block diagram, pass a written examination with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-10851A, (AN/UPA-61 TM)
2. AIMS MK XII IFF Handbook
3. DOD AIMS 03-1000A

IFF-2354 2.0 * B,R UPX-37, TPS-63 L

Goal. Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the MRR.

Requirement. Given the reference, conduct the following:

1. State the purpose of the Mk XIIA IFF system.
2. Describe the theory of operation of the IFF system to the block diagram level.
3. Describe the theory of operation of Modes 1, 2, 3, C, 4 within the AN/TPS-63B.
4. Describe the IFF side lobe suppression within the AN/TPS-63B.
    a. Describe the relative power levels of the challenge pulses and the side lobe suppression pulse.
    b. Explain the effect of side lobe suppression on an interrogation received outside the main lobe.

Performance Standard. With the aid of the applicable schematic or functional block diagram, pass a written examination with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-10851A, (AN/UPA-61 TM)
2. AIMS MK XII IFF Handbook
3. DOD AIMS 03-1000A

5.10.12 RADAR (RDR) STAGE

5.10.12.1 Purpose. To train the trainee on the basic skills common to both the MRR and the LRR. These skills include training on the PARCS, paving breaker, and radar theory.

5.10.12.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

RDR-2360 2.0 * B L

Goal. Describe the theory of operation of the Tactical Air Operations Module Interface Group (TIG).

Requirement. Given the references, complete the following:

1. Describe the functions of the following components:
   a. TAOM Interface Unit (TIU).
   b. Radar Electrical Optical Converter (REOC).
   c. Voice Communication Access Unit (VCAU).
3. Describe the functions of the front panel switches and indicators on the TIG.
4. Describe the functions of the jacks on the TIU.
4. Describe the data signal flow to the block diagram level.

Performance Standard. With the aid of references, perform the requirement error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TAOM TM

RDR-2361 2.0 730 B,R,M E L

Goal. Define RF wave propagation.

Requirement. Given the reference, conduct the following:

1. Explain RF wave propagation in free space.
2. Explain the mechanics of E and H fields.
3. Explain the environmental effects on RF wave propagation.
    a. Describe wave refraction.
    b. Describe ducting.
    c. Describe backscatter.
    d. Describe the effects of solar activity, humidity, barometric pressure, and temperature on RF wave propagation.
    e. Describe the effects of terrain on RF wave propagation.
4. Explain the effects of electromagnetic interference (EMI).

Performance Standard. Without the aid of reference, pass a written examination with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. The Radar Handbook, Skolnik

RDR-2362 2.0 730 B,R,M E L

Goal. Explain the theory of electronic countermeasure (ECM) and electronic counter-countermeasures (ECCM).

Requirement. Given the reference, explain the following:

1. Purpose of ECM and ECCM.
2. Effects of jamming.
3. Effects of frequency agility.
4. Effects of side lobe cancellation.
5. Effects of main lobe cancellation.
6. Effects of polarization.
7. Effects of chaff.
8. Threat of ARM.
9. Identify when to apply each ECCM feature.

Performance Standard. Without the aid of reference, pass a written

examination with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. The Radar Handbook, Skolnik
2. OI-07751C

RDR-2363 2.0 730 B,R,M E L

Goal. Describe the characteristics Long Range RADARs (LRRs) and Medium Range RADARs (MRRs).

Requirement. Given the reference, describe the following:

1. RF propagation of parabolic arrays.
2. RF propagation of phased arrays.

Performance Standard. Without the aid of reference, pass a written examination with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. The Radar Handbook, Skolnik

RDR-2364 1.0 * B L

Goal. Identify organic tools and kits.

Requirement. Given the reference, identify and define the uses for the following tools and kits:

1. Microminiature Repair Station MK-2663/U.
2. "O" Level Electronic Tool Kit TK-28003.
3. General Mechanics Tool Kit (GMTK).
4. Torque wrenches.
5. Paving Breaker.

Performance Standard. Physically identify the above items and verbally describe a use for each without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Shop SOP

RDR-2365 4.0 * B L

Goal. Operate the paving breaker.

Requirement. Given a paving breaker and the reference, perform the following:

1. Identify the following controls/parts:
   a. Handle.
   b. Fuel tank cap.
   c. Choke.
   d. Air filter.
   e. Spark plug.
   f. Throttle.
   g. Starting handle.
   h. Fuel tank.
   i. Function selector.
   j. Tool retainer.
   k. Stop button.
   l. Fuel filter (some models).
2. Explain safety hazards, controls, and PPE including:
   a. Hard hat or helmet.
   b. Hearing protection.
   c. Eye protection.
   d. Gloves.
   e. Steel toe boots.
3. Adhere to safety controls.
4. Fuel the machine.
   a. identify the fuel:oil mixture for the breaker model used.
   b. mix fuel and oil.
   c. fill the fuel tank.
5. Select/insert tool.
6. Start the machine (cold).
7. Change the operation mode.
8. Stop the machine.
9. Re-start the machine (warm).
10. Stop the machine.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. ATLAS COPCO No 9852 0878 90b Motor Drills Operator's Instructions (Pionjär)
2. ATLAS COPCO No. 9800 0955 01b Safety and Operating instructions (Cobra Combi)
3. SKIDRIL Operation and Parts Manual Drill/Breaker Model 180

RDR-2366 2.0 * B L

Goal. Maintain the paving breaker.

Requirement. Given the reference and a paving breaker, perform the following maintenance procedures:

1. Perform daily maintenance:
   a. Inspect machine for damaged, loose, or leaking components.
   b. Check the spark plug for serviceability and proper gap.
   c. Clean the air filter and housing.
   d. Check the chuck bushing.
2. Remove/replace the air filter.
3. Remove/replace the starter cord.
4. Drain fuel for transportation and/or storage.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. ATLAS COPCO No 9852 0878 90b Motor Drills Operator's Instructions

(Pionjär)
2. ATLAS COPCO No. 9800 0955 01b Safety and Operating instructions (Cobra Combi)
3. SKIDRIL Operation and Parts Manual Drill/Breaker Model 180

RDR-2367 2.0 * B L

Goal. Repair cables.

Requirement. Given references, connector instructions, required materials and tools complete the following:

1. Replace the connector on a Semi rigid coaxial cable.
2. Replace the connector on a coaxial cable.
3. Repair 5 pins on a multi pin connector.
4. Replace RJ-45 connector.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable technical manuals
2. TM-07736C-14/1-1

RDR-2368 2.0 * B PARCS-2000 L

Goal. Integrate the Portable Autonomous Report Collection System (PARCS) into a radar system for track/data verification.

Requirement. Given a radar system, a TAOM Interface Unit (TIU), a PARCS and applicable references, perform the following:

1. Install the PARCS into the radar system.
2. Configure the PARCS.
3. Verify the data transferring from the radar to the TIU.
4. Perform data recording.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. PARCS user's manual

5.10.13 LONG RANGE RADAR (LRR) STAGE

5.10.13.1 Purpose. To train the trainee on the basic skills necessary to safely embark, setup, operate, maintain, and integration of the AN/TPS-59A(V)3 Radar system with the AN/UPX-37 Digital Interrogator with a C2 node within the MACS.

5.10.13.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

LRR-2480 2.0 * B L

Goal. Identify hazards specific to the LRR.

Requirement. Given the references and a de-energized LRR, identify the following hazards:

1. Electrical Hazards.
   a. Power Distribution Box (PDB).
   b. Unit 1.
   c. Unit 2.
   d. Unit 19.
2. Radio Frequency hazards.
   a. Hazards of Electromagnetic Radiation to Personnel (HERP).
   b. Hazards of Electromagnetic Radiation to Ordinance (HERO).
   c. Hazards of Electromagnetic Radiation to Fuel (HERF).
   d. Electromagnetic Interference from adjacent emitters.
3. Mechanical hazards.
   a. Azimuth drive motor.
   b. Elevation motor.
   c. Maintenance Lift.
   d. Ball Screws.
   e. Array pedestal.

Performance Standard. Without the aid of references, physically identify electrical and mechanical hazard areas and verbally identify RF hazards to include Safe Separation Distances without error. Minor

errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3
2. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 1
3. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 2
4. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 3

LRR-2481 2.0 * B L

Goal. Verify system performance of the LRR.

Requirement. Given the results of PMFL tests, determine possible corrective actions for the below tests:

1. Platform Status Test.
2. Row Status.
3. Frequency Measurement Test.
4. Row Tests.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2482 2.0 365 B,R,M L

Goal. Identify LRR embarkation considerations.

Requirement. Given the reference, identify the following considerations for embarkation of the LRR:

1. Possible forms of transportation:

a. Air.
b. Sea.
c. Land

2. Heavy equipment requirements for loading/unloading.
   a. Crane
   b. Forklift
3. Loading considerations:
   a. Equipment specifications.
   b. Prime mover specifications.
   c. Dunnage.

Performance Standard. Without the aid of references, pass a written exam with a minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2483 8.0 730 B,R,M L

Goal. Assemble the LRR.

Requirement. As a member of a crew, given the reference, required tools, and an LRR emplaced per the reference, complete the following steps:

1. Assemble the Antenna-Transmitter Group.
   a. Couple the trailers.
   b. Remove the tarpaulins.
   c. Remove components.
   d. Emplace jack pads.
   e. Perform initial leveling.
   f. Place ground anchors.
2. Assemble the array.
   a. Prepare lower array.
   b. Prepare upper array.
   c. Couple lower array.
   d. Couple upper array.
   e. Finalize array assembly.
      (1) Install the wings.
      (2) Install the IFF antenna.
      (3) Install the auxiliary sub-arrays.
      (4) Install warning light and lightning rods.
      (5) Install back stays.
      (6) Connect jumper.
      (7) Raise the array.

(8) Complete array assembly.
(9) Stow tools and components.

3. Install maintenance platform.
4. Install air conditioners.
5. Cable system.
6. Ground system.
7. Test earth-ground conductivity.
8. Perform initial power energizing procedure.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. Must be able to verbally state the sequence of events involved in the assembly portion.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2484 2.0 730 B,R,M L

Goal. Operate the Antenna Electronics Test Unit (AETU) of the LRR.

Requirement. Given the reference, TMDE, tools, an AETU, a row power supply, row transmitter, and row receiver, perform the following:

1. Row power supply test.
2. Row transmitter test.
3. Row receiver test.
4. Auxiliary receiver test.

Performance Standard. With the aid of the reference, perform the requirement and state the test results. Perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2485 2.0 * B L

Goal. Perform row transmitter power module performance test.

Requirement. Given the reference, an operational LRR and a power module test set, perform a row transmitter power module performance test.

Performance Standard. With the aid of the reference, perform the requirement and state the results. Perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2486 2.0 * B L

Goal. Conduct preventive maintenance on the LRR.

Requirement. Given the references, an operational LRR, tools, the required TMDE, required materials, and as part of a crew complete the following:

1. Locate scheduled maintenance action index table for Unit 1.
2. Perform the scheduled PM's for Unit 1.
3. Locate scheduled maintenance action index table for Unit 2.
4. Perform the scheduled PM's for Unit 2.
5. document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2487 2.0 730 B,R,M L

Goal. Describe the transmit path of the LRR.

Requirement. Given the reference complete the following:

1. Describe creation of the Linear Frequency Modulation (LFM).
2. Trace the transmit signal from creation to emission.
3. Utilizing the reference, describe what occurs within each block in regards to the transmit signal.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2488 2.0 730 B,R,M L

Goal. Describe the receive path of the LRR.

Requirement. Given the reference complete the following:

1. Describe creation of the four receive signals.
2. Trace the receive signals from the row feed to the signal processor/data processor (SPDP).
3. Utilizing the reference, describe what occurs within each block in regards to the receive signal.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2489 4.0 * B L/S

Goal. Perform corrective maintenance on the AC and DC Power Distribution subsystem of the LRR.

Requirement. Given the references, tools, TMDE, a LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2490 4.0 * B L/S

Goal. Perform corrective maintenance on the Exciter of the LRR.

Requirement. Given the references, tools, TMDE, a LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2491 4.0 * B L/S

Goal. Perform corrective maintenance on the Final Receiver of the LRR.

Requirement. Given the references, tools, TMDE, a LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the

requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2492 4.0 * B L/S

Goal. Perform corrective maintenance on the 1A5A1 (data array distribution) on the LRR.

Requirement. Given the references, tools, TMDE, an operational LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2493 4.0 * B L/S

Goal. Perform corrective maintenance on the Array Electronics of the LRR.

Requirement. Given the references, tools, TMDE, an operational LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2494 4.0 * B L/S

Goal. Perform corrective maintenance on the Electro-mechanical subsystem of Unit 1 in the LRR.

Requirement. Given the references, tools, TMDE, a LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2495 12.0 * B L/S

Goal. Perform corrective maintenance on the Signal Processor/Data Processor.

Requirement. Given the references, tools, TMDE, a LRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In

the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2496 4.0 * B L/S

Goal. Perform corrective maintenance on the IFF subsystem of the LRR.

Requirement. Given the references, perform the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2497 4.0 * B L/S

Goal. Perform corrective maintenance on the LRR equipment trailers.

Requirement. Given the reference, a LRR radar system with a fault (preferred) in the pneumatic or hydraulic systems of the equipment trailers or simulated fault scenario, tools, and TMDE, complete the following:

1. Identify the fault using technical manuals, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulted component (live) or describe removal of the faulted component (simulated).
4. Replace the faulted component (live) or describe replacement of the faulted component (simulated).
5. Verify correct operation of the replaced component using technical manuals, tools, and TMDE.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2498 2.0 * B L

Goal. Verify the operation of a circuit card using the Printed Circuit Board Tester.

Requirement. Given a circuit card, a Printed Circuit Board Tester and applicable reference, perform the following:

1. State the purpose of the Printed Circuit Board Tester.
2. Set up test for appropriate circuit card.
3. Perform test on circuit card.
4. State whether the card is operational or faulty.
5. State which component or group of components are suspected IAW the test procedures.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful

execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Printed Circuit Board tester user's manual

LRR-2499 2.0 * B L/S

Goal. Perform corrective maintenance on the AN/UPA-61 RF switching group.

Requirement. Given the reference, an AN/UPA-61 RF switching group with an actual fault (live preferred) or simulated fault scenario, tools, and TMDE perform the following:

1. Identify the fault utilizing required technical manuals, tools and TMDE.
2. Locate the faulted component.
3. Remove the faulted component (live) or describe removal of the faulted component (simulated).
4. Replace the faulted component (live) or describe replacement of the faulted component (simulated).
5. Verify correct operation of the replaced component utilizing necessary technical manuals, tools, and TMDE.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. In the case of a simulated scenario, instructor feedback is allowed in order to progress.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. NAVELEX 0967-LP-420-9010

LRR-2500 2.0 * B L

Goal. Describe the theory of operations to the block diagram level of the LRR data processing group (Unit 2).

Requirement. Given the reference, describe what occurs within each block of the block diagram of the Signal Processor/Data Processor (SP/DP) cabinet 2A7.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2501 4.0 * B L

Goal. Perform Unix functions within the LRR.

Requirement. Given the reference and a LRR radar, perform the following Unix functions:

1. State the fundamentals of the UNIX operating system.
2. Perform UNIX functions within the LRR operating system:
    a. Create a file.
    b. Delete a file.
    c. Copy a file.
    d. Create a directory.
    e. Delete a directory.
    f. Move files to and from different types of media.
    g. Execute the telnet command.
    h. Execute the CMDtool command.
    i. Execute the VI editor command.
    j. Execute the ping command.
    k. Execute the list directory command.
    l. Execute the ipconfig command.
    m. Access and display the RDP log files.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. System and Network administration guide TM-07751C

LRR-2502 4.0 * B Radar, C2 node L

Goal. Verify connection between the LRR and a C2 node.

Requirement. Given the references, a LRR connected to a C2 node, and all required equipment, perform the following:

1. State the data that travels through the interface from the radar to the C2 node.
2. Perform interface checks.
   a. PARCS(V)2.
   b. Detection Performance menu within PMFL.
3. Verify system performance indicator is illuminated.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. 5979 crew with C2 node.

Reference.
1. TAOC radar system interface specification
2. PARCS User's Manual

LRR-2503 2.0 730 B,R,M L

Goal. Verify radar performance utilizing PMFL and Tables menus of the LRR.

Requirement. Given a LRR complete the following:

1. Describe the data contained within each of the PMFL and Tables submenus.
2. Evaluate the data contained within each of the following PMFL

and Tables submenus:
a. Align & row tests.
b. Flag data.
c. Fault tests.
d. Fault test results.
e. Gain data.
f. Receiver performance.
g. System performance.
h. Detection performance.
i. Signal processor performance.
j. Noise measurement.
k. Frequency status.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2504 4.0 * B L

Goal. Perform LRR final receiver alignment.

Requirement. Given the reference, an operational LRR radar system, tools, and TMDE, perform the final receiver alignment to include SET 3 within the mixer-filter assembly (1A3A9). Document as required.

Performance Standard. With the aid of reference, align the final receiver to within tolerance. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2505 4.0 * B L

Goal. Perform LRR maintenance lift torque limiter alignment.

Requirement. Given the reference, an operational LRR radar system, tools, and TMDE, perform the maintenance lift torque limiter alignment. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2506 2.0 * B L

Goal. State the radar system power alignments.

Requirement. Given the reference, a LRR radar, tools, and TMDE, explain the following radar system alignments:

1. Voltage regulator alignment (1A5VR1 to VR6).
2. Document as required.

Performance Standard. With the aid of reference, state the steps of each procedure without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2507 2.0 * B L/S

Goal. Perform corrective maintenance on the OE-442.

Requirement. Given the reference, OE-442 with an actual fault (preferred) or simulated fault scenario, tools, and TMDE, complete the following:

1. Identify the fault using technical manuals, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulted component (live) or describe removal of the faulted component (simulated).
4. Replace the faulted component (live) or describe replacement of the faulted component (simulated).
5. Verify correct operation of the replaced component using technical manuals, tools, and TMDE.
6. Document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2508 2.0 365 B,R,M L

Goal. Describe each SET function of the LRR.

Requirement. Given the aid of reference perform the following:

1. List each SET function.
2. Describe the function.

Performance Standard. Without the aid of reference, verbally explain the functional description of each of the SET functions without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3
2. TM-07751C-14/10 (confidential)

LRR-2509 2.0 * B L

Goal. Configure the LRR Radar for an operational environment.

Requirement. Given the reference, operational scenario, and an operational LRR, configure the system for an operational environment by completing the following:

1. Radar Frequency.
2. Physical Data.
3. Atmospheric Data.
4. External Alignment.
5. IFF Control.
6. SET Function Status.
7. Platform Level.
8. North Alignment.
9. Mission.
10. Weather Sectors.
11. Blanking Sectors.
12. Radar Control.
13. Scan Rate.
14. Document as required.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2510 2.0 * B L

Goal. Perform Performance Monitoring Fault Location (PMFL) tests on the LRR.

Requirement. Given the reference and an operational LRR, complete the following:

1. Run Performance Monitoring Fault Location tests:
    a. Platform Status Test.

b. Row Status.
c. Frequency Measurement Test.
d. Row Tests.

2. State whether the results are within tolerance.
3. Document as required.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2511 2.0 * B L

Goal. Operate the Global Positioning System (GPS) within the LRR.

Requirement. Given the reference, an operational LRR, and a GPS, program the GPS for operation within Unit 2.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. System software configuration document (SSCD)

LRR-2512 8.0 730 B,R,M L

Goal. Prepare the LRR Radar for relocation.

Requirement. As a member of a radar crew, given a LRR system and the reference, complete the following steps:

1. Deenergize the radar set.
2. Lower the antenna array.
3. Disassemble the IFF antenna.
4. Disassemble the array.
5. Decouple the array.
6. Load the arrays.
7. Finalize disassembly and storage.
8. Decouple the trailers.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable. Must be able to verbally state the sequence of events involved in the disassembly portion.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-2513 8.0 730 B,R,M L/S

Goal. Employ OE-442.

Requirement. As a part of the radar crew, given the references and a palletized OE-442 perform the following:

1. Emplace transmitters IAW the reference (maybe simulated).
2. Cable the system.
3. Perform operations check.
4. Explain how the OE-442 defeats the threat.

Performance Standard. With the aid of reference, perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

5.10.14 MEDIUM RANGE RADAR (MRR) STAGE

5.10.14.1 Purpose. To train the trainee on the basic skills necessary to safely embark, setup, operate, maintain, and integration of the AN/TPS-63B Radar system with the AN/UPX-37 Digital Interrogator with a C2 node within the MACS.

5.10.14.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MRR-2540 2.0 * B L

Goal. Identify hazards specific to the MRR.

Requirement. Given the references and a de-energized MRR, identify the following hazards:

1. Mechanical Hazards.
   a. Antenna rotation.
   b. Fan assemblies.
   c. Drive motor.
2. Electrical Hazards.
   a. Behind the power distribution panel.
   b. The lower cabinet of the TWT.
   c. The lower cabinet of the CFA.
   d. The grid pulser.
   e. The portion of chassis above the HV standoffs.
   f. The upper cabinet of the TWT.
   g. The upper cabinet of the CFA.
2. Radio Frequency hazards.
   a. Hazards of Electromagnetic Radiation to Personnel (HERP).
   b. Hazards of Electromagnetic Radiation to Ordinance (HERO).
   c. Hazards of Electromagnetic Radiation to Fuel (HERF).
   d. Electromagnetic Interference from adjacent emitters.

Performance Standard. Without the aid of references, physically identify electrical and mechanical hazard areas and verbally identify RF hazards to include Safe Separation Distances without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C 14/_ Safety Summary
2. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 1
3. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 2
4. NAVSEA OP 3565/NAVAIR 16-1-529 VOL 3

MRR-2541 2.0 365 B,R,M L

Goal. Configure the MRR for an operational environment.

Requirement. Given the reference, operational scenario, and an operational MRR, configure the system for an operational environment by completing the following:

1. Radar Frequency.
2. Radar transmit pulse width.
3. Staggered PRF sector.
4. MTI.
5. Physical Data.
6. External Alignment.
7. IFF Control.
8. Pedestal Level.
9. North Alignment.
10. Weather Sectors.
11. Blanking Sectors.
12. Radar Control.
13. Scan Rate.
14. Document as required.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/1-2
3. TM 07736C-14/3
4. TM 07736C-14/5
5. TM 07736C-14/7

MRR-2542 4.0 * B L

Goal. Align the receiver on the MRR.

Requirement. Given the reference and a MRR, complete the following:

1. Perform a receiver alignment per the reference.
2. State occasions when a receiver alignment should be performed.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/7

MRR-2543 2.0 * B L

Goal. Operate the AN/UYQ-509 Scope.

Requirement. Given the reference, provided a MRR in operate mode, and with an AN/UYQ-509, complete the following:

1. Display radar and IFF video on the scope.
2. Determine the range between two targets using the cursor.
3. Offset the center of the display.
4. Zoom into a selected target to a range scale of 20 miles.
5. Determine the IFF codes for a target.
6. Input information in order to display geographical location.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. UYQ-509 Course Handout
2. TM USMC TPS-63B DU-1 (Aug 1, 2005 edition)

MRR-2544 2.0 * B,R L

Goal. Describe the operation of the Synchronizer in the MRR.

Requirement. Given the reference complete the following:

1. Describe the purpose of the synchronizer.
2. Describe the following functions:
   a. Clock generation.
   b. PRI generation.
   c. Triggers/enable gates.
   d. RF control.
   e. Built in test equipment (BITE).

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/1-2
3. TM 07736C-14/3
4. TM 07736C-14/5
5. TM 07736C-14/7

MRR-2545 2.0 730 B,R,M L

Goal. Verify Mode 4 operation in the MRR.

Requirement. Given the references, tools, TMDE, an energized MRR, verify Mode 4 by observing the Mode 4 test on the scope.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/1-2
3. TM 07736C-14/3
4. TM 07736C-14/5
5. TM 07736C-14/7

MRR-2546 2.0 730 B,R,M L

Goal. Prepare the MRR for relocation.

Requirement. As a member of a radar crew, given a MRR system and references, complete the following steps:

1. Remove the transmission line.
2. Lower the antenna.
3. Disassemble the antenna.
4. Disconnect ancillary equipment.
5. Pack the shelter.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
2. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook

MRR-2547 2.0 730 B,R,M L

Goal. Setup the MRR system.

Requirement. As a member of a radar crew, given a MRR system, a suitable site and the references, complete the following steps:

1. Prepare site.
2. Unpack the MRR.
3. Assemble MRR antenna.
4. Connect system cabling.

5. Verify proper power input.
6. Verify installation of Environmental Control Units.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
2. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook

MRR-2548 2.0 * B L

Goal. Perform pre-operational checks on the MRR system.

Requirement. Given a MRR and the reference, complete the following steps:

1. Energize equipment.
2. Perform system leveling.
3. Perform system north alignment.
4. Verify system parameters.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 RADAR SET, AN/TPS-63

MRR-2549 2.0 730 B,R,M L

Goal. Operate the MRR system.

Requirement. Given an energized MRR and the references, complete the following steps:

1. Configure radar for operational environment.
2. Bring to an operational state.
3. Verify proper radar performance characteristics.
    a. Fault lights on Multi-Level Power supply.
    b. All Test points on Performance Fault Isolation (PFI) panel.
    c. Meters and test points on Frequency Generator.
    d. Radar Control Panel indicators.
    e. Calibrate meters as required, test points, fault indicators on the transmitter Cabinets.
    f. Calibrate meters as required, test points, fault indicators on Receiver.
4. Verify external interface.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1 Radar Set AN/TPS-63 System
2. TM 07736C-14/1-2 Radar Set AN/TPS-63 System Technical Description
3. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
4. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook
5. TM 07736C-14/3 Radar Set AN/TPS-63 Operation Instructions

MRR-2550 2.0 * B L

Goal. Familiarization with MRR embarkation considerations.

Requirement. Given the reference, identify the following considerations for embarkation of the MRR:

1. Possible forms of transportation:
    a. Air.
    b. Sea.
    c. Land.
2. Heavy equipment requirements for loading/unloading.
    a. Crane
    b. Forklift
3. Loading considerations:

a. Equipment specifications.
b. Prime mover specifications.

Performance Standard. Without the aid of references, pass an exam with a minimum of minimum of 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C 14-2/1
2. TM 07736C 14-1/1
3. TM 07736C 14-1/2

MRR-2551 2.0 * B L

Goal. Conduct Preventive Maintenance Checks and Services (PMCS) on the MRR.

Requirement. Given the reference, a MRR, and required equipment perform scheduled PMCS procedures.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/4

MRR-2552 2.0 * B L/S

Goal. Perform corrective maintenance to the Power Distribution subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the

following:

1. Identify the fault by utilizing applicable publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/10
3. TM 07736C-14/13

MRR-2553 4.0 * B L/S

Goal. Perform corrective maintenance to the Multi-Level Power Supply subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step

listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/10
2. TM 07736C-14/13

MRR-2554 2.0 * B L/S

Goal. Perform corrective maintenance to the Frequency Generator subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07736C-14/1-1
2. TM 07736C-14/8
3. TM 07736C-14/13

MRR-2555 2.0 * B L/S

Goal. Perform corrective maintenance to the RF/IF Receiver subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/3
3. TM 07736C-14/7

MRR-2556 2.0 * B L/S

Goal. Perform corrective maintenance on the Antenna and Antenna Control subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/6
3. TM 07736C-14/13

MRR-2557 2.0 * B L/S

Goal. Perform corrective maintenance on the Transmitter Control subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step.

(Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/5
3. TM 07736C-14/13

MRR-2558 2.0 * B L/S

Goal. Perform corrective maintenance to the TWT subsystem of the transmitter in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault in this subsystem (preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/5
3. TM 07736C-14/13

MRR-2559 2.0 * B L/S

Goal. Perform corrective maintenance to the Coolant subsystem in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault in this subsystem (preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
    Equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/5
3. TM 07736C-14/13

MRR-2560 2.0 * B L/S

Goal. Perform corrective maintenance on the Extended Range Processor (ERP) subsystem of the receiver in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a

fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/7
3. TM 07736C-14/13

MRR-2561 2.0 * B L/S

Goal. Perform corrective maintenance on the Digital Target Extractor (DTE) subsystem of the receiver in the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Display DTE fault memory files on DTE Control panel.
2. Identify the fault utilizing required publications, tools, TMDE, and DTE fault memory files.
3. Locate the faulted component.
4. Remove the faulty component (live) or describe component removal (simulated).
5. Install the replacement component (live) or describe component replacement (simulated).
6. Verify correct operation utilizing necessary means, tools, and equipment.
7. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/7
3. TM 07736C-14/13

MRR-2562 2.0 * B L/S

Goal. Perform corrective maintenance on the Radar Control Panel (RCP) subsystem of the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/13

MRR-2563 2.0 * B L/S

Goal. Perform corrective maintenance on the IFF subsystem of the MRR.

Requirement. Given the references, tools, TMDE, an operational MRR with a fault (live preferred) or a simulated scenario describing a fault in this subsystem, and evaluator feedback, complete the following:

1. Identify the fault utilizing required publications, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulty component (live) or describe component removal (simulated).
4. Install the replacement component (live) or describe component replacement (simulated).
5. Verify correct operation utilizing necessary means, tools, and equipment.
6. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/13

MRR-2564 4.0 * B,R L/S

Goal. Perform alignment of the turn-off pulser.

Requirement. Given the reference, a MRR with a replaced, but unaligned, CFA (live preferred) or simulated scenario, tools, and TMDE perform the following:

1. Perform operational checks of the CFA assembly.
2. Perform alignment of the turn-off pulser assembly (live) or explain the procedures for the turn-off pulser alignment (simulated).
3. Document as required.

Performance Standard. With the aid of reference, align the CFA assembly to within tolerance (live) or explain the procedures without error (simulated).

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/5

MRR-2565 4.0 * B,R L/S

Goal. Perform alignment of the grid pulser.

Requirement. Given the reference, a MRR with a replaced, but unaligned, TWT (preferred) or simulated scenario, tools, TMDE and evaluator feedback, perform the following:

1. Perform operational checks of the TWT amplifier.
2. Perform alignment of the grid pulser assembly (live) or explain the procedures for the grid pulser alignment (simulated).
3. Document as required.

Performance Standard. With the aid of reference, align the TWT amplifier assembly to within tolerance (live) or explain the procedures without error (simulated).

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/5

MRR-2566 4.0 * B L/S

Goal. Perform corrective maintenance on the MRR digital target

extractor (DTE)/extended range processor (ERP).

Requirement. Given the reference, a MRR with an actual fault in the DTE/ERP (live preferred) or simulated fault scenario, tools and TMDE, complete the following:

1. Identify the flow of discrete signals in the DTE and ERP.
2. Display a signal from processor backplane.
3. Identify the fault utilizing technical manuals, tools, and TMDE.
4. Locate the faulted component.
5. Remove the faulted component (live) or describe removal of the faulted component (simulated).
6. Replace the faulted component (live) or describe replacement of the faulted component (simulated).
7. Verify correct operation of the replaced component utilizing technical manuals, tools, and TMDE.
8. Perform a wire wrap on the ERP/DTE processor backplane (live) or explain the procedures to perform a wire wrap (simulated).
9. Align the video/trigger driver circuit cards in the ERP.
10. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/7

MRR-2567 4.0 * B L/S

Goal. Perform corrective maintenance on the MRR radar control panel (1A13).

Requirement. Given the reference, a MRR with an actual fault in the radar control panel (live preferred) or simulated fault scenario, tools and TMDE, complete the following:

1. Identify the fault utilizing technical manuals, tools, and TMDE.
2. Locate the faulted component.
3. Remove the faulted component (live) or describe removal of the faulted component (simulated).
4. Replace the faulted component (live) or describe replacement of the faulted component (simulated).

5. Document as required.

Performance Standard. With the aid of references, complete each step listed above without error. In the case of a simulated scenario, instructor feedback is allowed in order to progress from step to step. (Example: "You note the signal is bad at the test point indicated." or "You correctly replaced the component, what happens next?").

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-2

MRR-2568 4.0 * B L

Goal. Perform corrective maintenance on an MRR radar secondary reparable item.

Requirement. Given the references, a MRR with a faulted secondary repairable item within the system, tools, and TMDE, complete the following:

1. Identify the fault utilizing technical manuals, tools, and TMDE.
2. Locate the faulted secondary reparable component.
3. Remove the faulted secondary reparable component.
4. Replace the faulted secondary reparable component.
5. Verify correct operation of the replaced secondary repairable component utilizing technical manuals, tools, the radar system and/or TMDE as needed.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C Series

MRR-2569 2.0 * B L

Goal. Verify data output from MRR.

Requirement. Given the references, a MRR, PARCS, and all required equipment, perform the following:

1. State the data that travels through the interface from the radar to the C2 node.
2. Perform interface checks.
    a. Display target counts on the DTE control panel.
    b. Install the PARCS between the DTE and TIU interface.
    c. Display target data output from the DTE using the PARCS.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-08565A-14/12
2. TM-07736C-14/1-1
3. PARCS User's Manual

5.10.15 MAINTENANCE MANAGEMENT (MMGT) STAGE

5.10.15.1 Purpose. To train the trainee on the basic skills necessary to perform as a member of a maintenance shop.

5.10.15.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-2600 3.0 * B L

Goal. Ensure preparatory measures are taken for disposition of equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, ensure unserviceable/obsolete equipment is properly disposed.

1. Provide supply with disposition request.
2. Ensure final SL-3/LTI is performed.
3. Ensure record jackets are turned-in with equipment.
4. Provide supply with required documentation to remove from CMR.

Performance Standard. With the aid of reference, verbally describe the process to dispose of equipment according to the disposition instructions. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Equipment Disposition Instructions
2. Supply Instructions
3. SL-3 or other inventory documents.
4. MCO P4400.82F Regulated Controlled Item Management
5. UM 4400-125 (Draft)

MMGT-2601 1.0 * B L

Goal. Create a Preventive Maintenance Checks and Services (PMCS) schedule.

Requirement. Given a list of equipment requiring PMCS create a schedule.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2151

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-4700-15/1H
2. MCO P4790.2_

MMGT-2602 4.0 * B,R GCSS L

Goal. Reconcile Global Combat Supply System (GCSS) reports.

Requirement. Given the reports listed in item 1 below:

1. Identify the purpose of:
    a. Maintenance Production Report (MPR).
    b. Equipment Status Report (ESR).
    c. Preventative Maintenance Report.
    d. Calibrations Report.
    e. Modification Instruction report.
    f. Maintenance Management Report (MMR).
    g. Loaded unit balance file (LUBF).
    h. Due and status file (DASF).
    i. Service Request (SR).
        (1) Tasks.
        (2) Notes.
        (3) Parts Requirements.
    j. Inspection repair tag (NAVMC 1018).
    k. Layette bin.
        (1) Sub-Inventory.
        (2) Stage.
    l. Oracle Installed Base.
        (1) Parent/Child Relationships.
2. Identify the type of information contained in each of the forms listed above.
3. Identify the status of a parts requisition.
4. Identify proper use of UMMIPS priorities.
5. State item requisition priorities.
6. State any errors found within each of the forms listed above.
7. Reconcile all items listed above and list all errors found in each form.
8. Explain how to maintain a layette bin.

Performance Standard. With the aid of reference, verbally identify errors on reports provided and identify corrective actions to the instructor without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2159

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. MCBUL 3000
3. MCO P4400.16¬
4. DLA Handbook

5. Unit MMSOP
6. UM 4400-125 (Draft)

MMGT-2603 2.0 * B L

Goal. Identify the SECREP management process.

Requirement. Given the references, perform the following:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
6. Identify Low Density SECREP assets.

Performance Standard. Without the aid of reference, state (verbally or written) the requirement items to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4790.2_
2. MCO P4400.150_
3. FEDLOG

MMGT-2604 2.0 * B L

Goal. Define RA with regards to O&M funds.

Requirement. Given the references, identify the following:

1. Requisition Authority Funds.
2. Identify regulations governing.
3. What can be purchased.

Performance Standard. With the aid of reference, define the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DoD Financial Management Regulation [DoD 7000.14-R (FMR) Volume 2A, Chapter 1]

MMGT-2605 2.0 * B L

Goal. Define PE with regards to O&M funds.

Requirement. Given the references, identify the following:

1. Planning Estimate funds.
2. Regulations governing.
3. What can be purchased.

Performance Standard. With the aid of reference, define the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DoD Financial Management Regulation [DoD 7000.14-R (FMR)] Volume 2A, Chapter 1]

MMGT-2606 2.0 * B L

Goal. Induct new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.
1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
    a. Ensure record jacket was created with proper documentation IAW the reference.
    b. Ensure initial SL-3 was performed.
    c. Ensure an initial LTI was performed.
    d. Ensure induction of new equipment into calibration cycle as

required.
e. Ensure equipment is accounted for within EKMS as required.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2159, 2231, 2238

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. SI 10510-OD
2. ULSS
3. Equipment SL-3
4. MCO P4400.82
5. UM 4400.124

MMGT-2607 2.0 * B L

Goal. Phase out equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, demonstrate and validate phase out of obsolete equipment, to include at minimum:

1. Review the POP and applicable references.
2. State the purpose of:
    a. Recoverable Items Report (WIR).
    b. WIR Online Process Handler program (WOLPH).
    c. Material Returns (MTR) program.
3. Validate obsolete equipment was disposed of properly by ensuring the following:
    a. Ensure a final LTI was performed.
    b. Ensure a final SL-3 was performed.
    c. Ensure a Recoverable Items Report (WIR) - request for disposition - was submitted using the WOLPH.
    d. Ensure equipment was disposed of IAW instructions in Phase out plan.
    e. Ensure the record jackets were completed and accompanied equipment.
    f. Ensure the equipment and proper documentation was sent to Supply for turn-in.
    g. Ensure supply received the proper documentation to remove equipment from the CMR.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Supply Instructions (SI)
2. Equipment SL-3
3. Initial Issuing Provision Inventories
4. MCO 5311.1C
5. MCO P4400.82

MMGT-2608 16.0 * B,R L

Goal. Inspect maintenance functional areas.

Requirement. Given the applicable references and inspection checklists, demonstrate the procedures for inspecting functional areas.
1. State the purpose for inspecting functional areas.
2. List the functional areas in your section.
3. Schedule an inspection.
4. Inform functional area managers of the inspection.
5. Conduct an inspection on the three selected areas.
6. Document the result of the inspection.
7. State to whom the inspection findings are submitted.

Performance Standard. With the aid of reference, conduct an inspection on three functional areas and submit the findings to the instructor without error. Minor errors corrected by the trainee are acceptable. The instructor will review the findings with the Marine.

Instructor. BI, SI

Prerequisite. 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. FSMAO Checklist
2. CGI Checklist
3. Unit SOP
4. MMOSOP

MMGT-2609 2.0 * B L

Goal. State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement. Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Validate the requirement for change.
3. Complete TOECR form, NAVMC 11355.
4. Identify compensation for T/O changes when possible.
5. Provide an explanation/reason for change request on the change request form in plain English.
6. Provide a copy of the NAVMC 11355 to the instructor for review and validation.

Performance Standard. Complete the requirement items to support the scenario without error. Minor errors corrected by the trainee are acceptable. Instructor will ensure the NAVMC 11355 supports the scenario requirement.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 5311.1_
2. Unit TO&E

MMGT-2610 2.0 * B L

Goal. Identify the Marine Corps Urgent Needs Process (MCUNP).

Requirement. Given the references and an equipment requirement, complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Complete an Urgent UNS form.
5. Complete a deliberate UNS form.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. NAVMC 11475
2. MCO 3900.17_

MMGT-2611 40.0 * B L

Goal. Conduct a Consolidated Memorandum Receipt (CMR) Review.

Requirement. Given the references and a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Conduct a CMR inventory.
    a. Ensure SL-3 accountability for assumption and relief.
    b. Determine Using Unit Responsibility (UURI)/Government Furnished Equipment (GFE) requirements.
    c. Ensure equipment have record jackets.
    d. Maintain equipment receipt/transfer documents.
    e. Identify discrepancies, if any.
4. Write and submit a Request for Investigation IAW MCO 4400.150.

Performance Standard. With the aid of reference, complete a CMR review without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. CMR
3. MMO SOP

MMGT-2612 1.5 * B L

Goal. Verify inventory control procedures are implemented.

Requirement. Given an equipment record and SL-3:

1. Validate inventory results.
2. Validate parts requisition details.
3. Ensure service request is created within GCSS-MC.
4. Ensure parts requirement for unserviceable items are created within

GCSS-MC.
5. Ensure inventory records are updated to reflect current status:
    a. Item on-hand availability status.
    b. Parts requisition status.

Performance Standard. With the aid of reference, perform inventory control procedures without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2159

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. MCO P4790.2_

MMGT-2613 13.0 * B L

Goal. Identify the functions of maintenance management.

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

1. Identify the references associated with the MIMMS.
2. Identify the objectives of MIMMS.
3. Identify equipment maintenance management procedures.
4. Identify the responsibilities of maintenance management personnel.
5. Identify the information contained in the Table of Organization and Equipment (T/O&E).
6. Identify the steps to submit a T/O&E change request.
7. Identify the purpose of supply reports used in Maintenance Management.
8. Identify the procedures to reconcile a Consolidated Memorandum Receipt (CMR).
9. Identify the purpose of maintenance support programs.
10. Identify that describes Repairable Issue Point (RIP) procedures.
11. Identify the RIP customer re-computation procedures.
12. Identify the steps in the Recoverable Item Report (WIR) procedures.

Performance Standard. With the aid of reference, pass an exam.

Instructor. BI, SI

Prerequisite. 2602, 2603, 2609, 2611

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. MCO P4790.1_
3. UM 4790.5
4. MCBUL 3000
5. MCO P4400.16_
6. DLA Handbook
7. Unit MMSOP
8. UM 4400-125 (Draft)
9. MCO 5311.1_
10. Unit TO&E
11. MCO P4400.150_
12. CMR
13. MMO SOP
14. MCO 4400.151_

MMGT-2614 1.0 * B L

Goal. Ensure equipment is inducted into maintenance cycle.

Requirement. Given an inoperative piece of equipment and references, complete the following:

1. Review service request.
2. Review Inspection Tag (NAVMC 1018).
3. Inspect equipment.
4. Forward request to next level IAW SOP.

Performance Standard. Complete the requirements with 100% accuracy.

Instructor. BI, SI

Prerequisite. 2159

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 4700-15/1_
2. MCO P4790.2_
3. MCO P4400.16_
4. Unit SOP
5. UM 4400-125 (draft)

5.10.16 OPERATIONAL MANAGEMENT (OMGT) STAGE

5.10.16.1 Purpose. To provide the trainee basic skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

5.10.16.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-2680 2.0 * B L

Goal. Identify the purpose of communication planning documents.

Requirement. Given the documents below, identify their purpose:

1. Guard Chart.
2. Communication Electronic Operating Instruction (CEOI).
3. Operations Order.
4. Annex K of the Operations Order.
5. Annex S of the Operations Order.
6. Site Diagram.
7. Operational Tasking Data Link (OPTASKLINK).
8. EKMS Callout.
9. Operational Tasking Cooperative Engagement Capability (OPTASKCEC).

Performance Standard. Without the aid of reference, state (verbally or written) the requirement items to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 5-1
2. MCWP 3-40.3

OMGT-2681 2.0 365 B,R,M L

Goal. Determine required equipment to support a mission.

Requirement. Given a mission, a list of end items, create a list of equipment that supports all aspects and requirements of the mission, to include the following:

1. Support equipment.
2. EKMS.

3. TMDE.
4. Tools.
5. Utilities support equipment.
6. Supply support items.
7. Logistics/movement support items.
8. Personnel equipment.

Performance Standard. With the aid of reference, produce a list of equipment needed to support the mission by completing the requirement without error. Minor errors corrected by the trainee are acceptable. The instructor will confirm the list supports the mission.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25
2. SECNAVINST 5510.36,
3. EKMS-1

OMGT-2682 4.0 1460 B,R,M L

Goal. Conduct communications portion of a site survey.

Requirement. Given a scenario, applicable references, a TO/E and operational tasking, determine an appropriate site for system emplacement by performing the following:

1. Utilize planning tools to determine terrain masking and line of sight connectivity.
2. Determine a primary and secondary site location.
3. Identify obstructions and hazards.
4. Determine tactical orientation and equipment emplacement.
    a. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Fuels (HERF) regulations.
    b. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Ordinance (HERO) regulations.
    c. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Personnel (HERP) regulations.
    d. Ensure emitters are emplaced to support working area.
5. Identify the placement for vehicles.
6. Identify the placement for antennas.
7. Determine communications obstacles.
8. Determine system grounding requirements.
9. Identify power and fuel requirements.
10. Determine protection from the elements.
11. Determine Terrain Masking.
12. Determine operational footprint.

13. Design a site layout and submit to the instructor.
14. Develop a brief that addresses all event requirement items.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. Brief the instructor on the considerations taken for each decision.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCDP 6
2. MCWP 3-25.4
3. MCWP 5-1
4. TM 10576D-OI Communications Interface System AN/MRQ-12(V)4
5. DRAFT – TM 12041A/15050A-OD/2 CAC2S System User Manual
6. IEEE C95.1-1991
7. NAVSHIPS 0967-317-7010
8. TM 9406-15
9. DODINST 6055.11
10. BUMED 6470.23
11. OPNAVINST 5100.23 Series
12. NAVSEA OP 3565/NAVAIR 16-1-529/NAVELEX 0967-LP-624-6010/Volume II
13. MCO 5100.29A W/CH 1
14. MCO 5104.2
15. MCO 5104.3A

OMGT-2683 2.0 * B L

Goal. Identify crew requirements and write a crew schedule.

Requirement. Given operational tasking, references, section roster, and MSHARP crew report, perform the following:

1. Determine the duration of operations.
2. Determine total crews required to support the mission.
3. Determine the crew composition/requirements.
4. Write the crew schedule.
5. Submit the crew schedule to the instructor.
6. Describe the process to publish crew schedule once validated.

Performance Standard. With the aid of reference, determine crew requirements and write a crew schedule that supports the mission without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. T&R Manual
2. MCWP 3-25
3. MCWP 3-25.7

OMGT-2684 3.0 * B L

Goal. Determine supply support requirements.

Requirement. Given the reference and a 30 day operational scenario, perform the following:

1. Determine supply needs with consideration of the following:
   a. Location.
   b. Equipment.
   c. Daily operations.
   d. Climate.
2. Identify SECREP requirements and deficiencies.
3. Identify bill of material (BOM) requirements.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2691

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable TM

OMGT-2685 1.0 * B L

Goal. Develop an embarkation plan.

Requirement. Given the references and a 30 day operational scenario, perform the following:

1. State the purpose of an embarkation plan.

2. Produce an equipment density list (EDL).
3. Produce Logistics documents as required.
4. Identify heavy equipment required to move EDL items.
5. Identify the modes of transportation required to move EDL items.

Performance Standard. With the aid of reference, complete the requirement and develop an embarkation plan to support the scenario. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2687

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable TM
2. Unit SOP

OMGT-2686 8.0 1460 B,R,M L

Goal. Write a packing list.

Requirement. Given the references, perform the following:

1. Define the purpose of a packing list.
2. Describe essential packing list contents.
3. Complete a packing list.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 4-11.3G Unit Embarkation Handbook
2. Local SOP

OMGT-2687 8.0 * B L

Goal. Write an Equipment Density List (EDL).

Requirement. Given the references and a 30 day scenario, perform the following:

1. Define the purpose of an EDL.
2. Describe essential EDL contents.
3. Complete an EDL.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 4-11.3G Unit Embarkation Handbook
2. Local SOP
3. Applicable TM

OMGT-2688 4.0 365 B,R,M L

Goal. Identify power requirements.

Requirement. Given a scenario and references, perform the following:

1. List all PEIs required to support the scenario.
2. Determine power requirements for each piece PEI.
3. Determine total power requirements to support all PEIs listed.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Refer to equipment applicable TMs

OMGT-2689 1.0 * B L

Goal. Identify spectrum management procedures.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Record frequency requirements.
   a. Identify submission timelines.
   b. Identify data elements (-Freq, Location, Power, Dates).
2. Record Satellite Access requirements.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 3-40B
2. MCO 2400.2

OMGT-2690 1.0 * B L

Goal. Fill out a Logistics Support Request (LSR).

Requirement. Given a scenario, fill out a request for:

1. Transportation.
2. Material Handling Equipment (MHE).
3. Supplies.
4. Personnel.

Performance Standard. With the aid of reference, submit a completed LSR to the instructor. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

OMGT-2691 2.0 * B L

Goal. Submit a Bill of Material (BOM) request.

Requirement. Given a deployment scenario and references, perform the following:

1. Collect requests from communications maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24-hour operations for the length of the exercise.
4. Validate the content to ensure it meets the requirement.
5. Submit the BOM to the instructor for review.

Performance Standard. With the aid of reference, submit a BOM that supports the scenario to the instructor for review and validation. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable TM
2. Unit SOP

OMGT-2692 1.0 * B L

Goal. Describe common agency doctrinal nets.

Requirement. Given a list of doctrinal net names in acronym format and references, perform the following:

1. Define each net acronym.
2. Describe function for each net.

2. State the frequency spectrum doctrinally used for each net.
3. Identify agencies required to guard each net.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-40.3

5.11 MISSION SKILL TRAINING (3000)

5.11.1 Purpose. To provide the requisite advanced skills and working knowledge to employ the MACCS and ancillary equipment in order to accomplish the Marine Air Support Squadron missions.

5.11.2 General.

5.11.2.1 Prerequisite.

5.11.2.2 Admin Notes.

(1) Training in this phase does not preclude simultaneous training in Core Skill and Core Plus phases.

(2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable. Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event. Crew member assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

(4) Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

(5) Refresher Training. Refresher training is required once a individual has been absent from a technician billet for 36 months or longer. Upon return, the individual will complete R-coded events in the Attain table;

else the technician will maintain proficiency by completing the R-coded events in the Maintain table.

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

PAR NO.	STAGE NAME
5.11.3	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
5.11.4	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
5.11.5	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
5.11.6	LONG RANGE RADAR (LRR)
5.11.7	MEDIUM RANGE RADAR (MRR)
5.11.8	MAINTENANCE MANAGEMENT (MMGT)
5.11.9	OPERATIONAL MANAGEMENT (OMGT)
5.11.10	MARINE AIR CONTROL GROUP (MACG)

5.11.3 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

5.11.3.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.11.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-3280 5.0 1095 B,R,M E L

Goal. Explain concepts included in A+ exam 220-801.

Requirement. Without the aid of references, explain:

1. PC Hardware.
2. Networking.
3. Laptop.
5. Printers.
5. Operational Procedures.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-3281 5.0 1095 B,R,M E L

Goal. Explain concepts included in A+ exam 220-802.

Requirement. Without the aid of references, explain:

1. Operating Systems.
2. Security.
3. Mobile Devices.
5. Troubleshooting.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2255, 2256, 2257, 2258

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.11.4 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

5.11.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-3282 5.0 1095 B,R,M E L

Goal. Explain concepts included in Network+ exam N10-005.

Requirement. Without the aid of references, explain:

1. Networking Concepts.
2. Network Installation and Configuration.

3. Network Media and Topologies.
5. Network Management.
5. Network Security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.11.5 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST) STAGE

5.11.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-3283 5.0 1095 B,R,M E L

Goal. Explain concepts included in Security + exam SY0-301.

Requirement. Without the aid of reference, explain:

1. Network Security.
2. Operational Security.
3. Threats and vulnerabilities.
5. Cryptography.
5. Access control and identity management.
6. Application, data and host security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

5.11.6 LONG RANGE RADAR (LRR) STAGE

5.11.6.1 Purpose. To train the trainee on the advanced skills necessary to safely embark, setup, operate, maintain, and integration of the AN/TPS-59A(V)3 Radar system with the AN/UPX-37 Digital Interrogator with a C2 node within the MACS.

5.11.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

LRR-3514 8.0 * B L

Goal. Ensure the LRR radar system is properly assembled.

Requirement. Given the reference, a disassembled LRR, a radar crew, all required tools, and material, observe assembly of the radar and verify the following steps are correctly performed:

1. Trailer Coupling torque settings.
2. Initial Leveling Procedure.
3. Lower array coupling.
4. Upper array coupling.
5. Array splice cabling.
6. IFF antenna assembly.
7. Antenna rising.
8. Maintenance Platform assembly.
9. System Cabling.
10. System Grounding.

Performance Standard. With the aid of reference, ensure the requirement is performed within the radar assembly process and correct any mistakes.

Instructor. SI, WTI

Prerequisite. 2480, 2483

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-3515 8.0 * B L

Goal. Ensure the LRR radar system is properly disassembled.

Requirement. Given the reference, an assembled LRR, a radar crew, all required tools and material, observe disassembly of the radar and verify the following steps are correctly performed:

1. Lowering antenna array.
2. Array disassembly.
3. Array decoupling.
4. Array section loading.
5. Final disassembly and stowage.
6. Trailer decoupling.
7. Cable and reel stowage.

Performance Standard. With the aid of reference, ensure the requirement items are performed within the radar disassembly process and correct any mistakes.

Instructor. SI, WTI

Prerequisite. 2480, 2512

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-3516 12.0 * B L

Goal. Deploy a long range radar system ISO operations.

Requirement. Given the references, a LRR, core capable crew, operational requirement and commander's guidance, conduct the following:

1. Coordinate and supervise the preparation of embarking the radar system.
2. Coordinate the transportation of the radar system to a given site.
3. Coordinate and supervise the emplacement of the radar system.
4. Ensure the radar system is operational state in compliance with the mission.
5. Coordinate and supervise the retrograding of the radar system.

Performance Standard. With the aid of references, perform each item in the requirement without error and IAW the references.

Instructor. SI, WTI

Prerequisite. 2480, 2482, 2483, 2502, 2512

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-3517 8.0 * B L

Goal. Perform system troubleshooting on the LRR.

Requirement. Given the references, a de-energized LRR with a fault in the system, tools and TMDE, complete the following:

1. Perform operational checks and alignment of the radar system.
2. Identify symptoms of a fault within the radar system.
3. Troubleshoot fault to the lowest replaceable unit.
4. Perform corrective maintenance in order to bring the radar to an operational state.

Performance Standard. With the aid of references, perform each item in the requirement without error and IAW the references. Instructor shall ensure the fault was correctly identified to the lowest replaceable unit. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2480, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-3518 12.0 * B L

Goal. Plan for and coordinate efforts in deploying a long range radar system.

Requirement. Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.

3. Establish an accurate T/O for the radar crew.
4. Coordinate proper heavy lifting support.
5. Establish an accurate bill of materials list.
6. Coordinate COMSEC support.
7. Identify communication requirement.
8. Submit requirement for frequency request.
9. Establish an accurate float list required for deployment.
10. Identify a key contacts list for intra squadron section.
11. Identify and request fuel requirements.
12. Identify and request power requirements.
13. Coordinate with MMO for proper procurement procedures during deployment.
14. Identify and request environmental condition unit requirements.
15. Identify and request appropriate transportation requirements.
16. Identify chow and billeting requirements.
17. Obtain letter of instruction for deployment.
18. Inspect gear required on the gear list for individual Marines for deployment.
19. Familiarize the Marines with emergency action plan for deployment.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2480, 2482

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
Group/Squadron/Shop Standard Operating Procedures

LRR-3519 2.0 730 B,R,M L

Goal. Verify the configuration of the LRR.

Requirement. Given the reference, verify the setting input into the radar system:
Radar Frequency.
Physical Data.
Atmospheric Data.
External Alignment.
IFF Control.
SET Function Status.
Platform Level.
Mission.
Weather Sectors.
Blanking Sectors.
Radar Control.

Scan Rate.

Performance Standard. With the aid of references, complete the requirements without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2481, 2485, 2503

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

LRR-3521 8.0 1095 B,R,M Radar, C2 node L

Goal. Establish a remote radar link between a C2 node and an LRR system.

Requirement. Given a LRR radar system, all required communication equipment, and a C2 node complete the following:

1. Install remote radar communications equipment.
2. Configure communications equipment for remote radar data.
3. Operate remote radar communications equipment.
4. Verify that the link with the C2 node is passing data.

Performance Standard. The link must successfully transmit data to the C2 node IAW the reference.

Instructor. BI, SI

Prerequisite. 2502

Ordnance. None.

Range. None.

External Syllabus Support. 5979 crew at C2 node.

Reference.
1. TAOC pocket checklist

5.11.7 MEDIUM RANGE RADAR (MRR) STAGE

5.11.7.1 Purpose. To train the trainee on the advanced skills necessary to safely embark, setup, operate, maintain, and integration of the AN/TPS-63B Radar system with the AN/UPX-37 Digital Interrogator with a C2 node within the MACS.

5.11.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MRR-3580 2.0 730 B,R,M L

Goal. Verify the configuration of the MRR for an operational environment.

Requirement. Given the reference, operational scenario, and an operational MRR, verify the configuration of the system for an operational environment by completing the following:

1. Radar Frequency.
2. Radar transmit pulse width.
3. Staggered PRF sector.
4. MTI range.
5. Physical Data.
6. External Alignment.
7. IFF Control.
8. Pedestal Level.
9. North Alignment.
10. Weather Sectors.
11. Blanking Sectors.
12. Radar Control.
13. Scan Rate.
14. document as required.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2541, 2548, 2549

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-1
2. TM 07736C-14/1-2
3. TM 07736C-14/3
4. TM 07736C-14/5
5. TM 07736C-14/7

MRR-3581 8.0 * B L

Goal. Ensure the proper setup the MRR.

Requirement. Given a MRR, core capable crew, a suitable site and the references, complete the following steps:

1. Prepare site.
2. Unpack the MRR.
3. Assemble the MRR antenna.
4. Connect system cabling.
5. Verify proper power input.
6. Verify installation of Environmental Control Units.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2540, 2547

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/2-1 Radar Set AN/TPS-63 Installation
2. TM 07736C-14/2-2 Radar Set AN/TPS-63 Installation Pocket Handbook

MRR-3582 12.0 * B L

Goal. Deploy a MRR ISO operations.

Requirement. Given an operations order, references, a MRR, and a core capable crew perform the following:

1. Coordinate and supervise the preparation of embarking the radar system.
2. Coordinate the transportation of the radar system to a given site.
3. Coordinate and supervise the emplacement of the radar system.
4. Ensure the radar system is operational state in compliance with the mission.
5. Coordinate and supervise the retrograding of the radar system.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2540, 2541, 2546, 2547, 2549

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C Series

MRR-3583 8.0 * B,R L

Goal. Perform system troubleshooting on the MRR.

Requirement. Given the references, a de-energized MRR with a fault in the system, tools and TMDE, complete the following:

1. Perform operational checks and alignments of the radar system.
2. Identify symptoms of a fault within the radar system.
3. Troubleshoot fault to the lowest replaceable unit.
4. Perform corrective maintenance in order to bring the radar to an operational state.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2540, 2541, 2543, 2548, 2549, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C Series

MRR-3584 12.0 * B L

Goal. Plan for and coordinate efforts in deploying a MRR system.

Requirement. Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O for the radar section.
4. Coordinate proper heavy lifting support.
5. Establish an accurate bill of materials list.

6. Coordinate COMSEC support.
7. Identify communication requirement.
8. Submit requirement for frequency request.
9. Establish an accurate float list required for deployment.
10. Identify a key contacts list for intra squadron section.
11. Identify and request fuel requirements.
12. Identify and request power requirements.
13. Coordinate with MMO for proper procurement procedures during deployment.
14. Identify and request environmental condition unit requirements.
15. Identify and request appropriate transportation requirements.
16. Identify chow and billeting requirements.
17. Obtain letter of instruction for deployment.
18. Inspect gear required on the gear list for individual Marines for deployment.
19. Familiarize the Marines with emergency action plan for deployment.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 2540, 2550

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Group/Squadron/Shop Standard Operating Procedures

5.11.8 MAINTENANCE MANAGEMENT (MMGT) STAGE

5.11.8.1 Purpose. To train the trainee on the advanced skills necessary to perform as a member of a maintenance shop.

5.11.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-3660 2.0 * B L

Goal. Ensure the corrective maintenance repair process is being conducted.

Requirement. With the aid of references, ensure the timely performance of all corrective maintenance actions per the references by performing

the following:

1. Verify the induction process is followed.
2. Ensure correctness of the service request and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered.
6. Ensure faulty item is repaired.
7. Ensure safety measures are adhered to during repair process.
8. Ensure quality control procedures are followed.
9. Verify Modification Instruction (MI) and Technical Instruction (TI).
10. Verify proper closeout of service request.
11. Ensure equipment record is updated.

Performance Standard. With the aid of references, conduct each step of the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2C
2. TM-4700-15/1_
3. UM-4790.5
4. MCO P4400.16G
5. MCBUL 3000
6. Associated Equipment TM

MMGT-3661 2.0 1095 B,R,M L

Goal. Validate SECREP assets.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
6. Identify Low Density SECREP assets.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4790.2C w/ch.1-2
2. MCO P4400.150E W/ERRATUM CH 1-2
3. FEDLOG

MMGT-3662 2.0 * B L

Goal. Assess maintenance funding requirements.

Requirement. With the aid of references and given equipment maintenance history, projected TEEP, and anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirements and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.

Performance Standard. With the aid of reference, submit a budget request with justification to the Instructor for final approval without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. MCO P7100.8_

5.11.9 OPERATIONAL MANAGEMENT (OMGT) STAGE

5.11.9.1 Purpose. To provide the trainee advanced skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

5.11.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-3710 1.0 1095 B,R,M L

Goal. Provide input to the operational plan.

Requirement. Given a simulation/operation and command guidance, provide input for the operation plan by performing the following:

1. Verify mission requirements.
2. Determine mission essential equipment.
3. Provide input for the Equipment Density List.
4. Assign maintenance personnel to meet mission requirements.
5. Verify communications plan supports mission execution.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Operations Order
2. MCRP 5.11.1

OMGT-3711 2.0 * B L

Goal. Organize and assign crews for deployment.

Requirement. Given a scenario and references, perform the following:

1. Review an MSHARP report to determine individual Marine CMMR standing.
2. Assign maintenance personnel to crews dependent upon mission requirements. Factors include, but are not limited to:
   Tactical licenses.
   Active clearance.
   Courier designations.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5
2. Unit TO

OMGT-3714 8.0 * B L

Goal. Deploy a maintenance capability.

Requirement. Given an operational requirement and commander's guidance, conduct the following:

1. Review operational requirements and develop an EDL.
2. Coordinate for support equipment as required.
3. Verify and complete Bill of Materials.
4. Establish float requirements as required.
5. Supervise pack-up of equipment and validate EDL accuracy.
6. Ensure correct execution of the load plan for equipment handling and safety.
7. Ensure maintenance crews are formed and prepared for deployment.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 3120.6
2. Applicable TMs/UMs

OMGT-3715 8.0 * B L

Goal. Prepare system for embark.

Requirement. Given an Equipment Density List (EDL) that supports the mission, prepare system for embark/retrograde:

1. Conduct proper system power down/teardown.
2. Layout and conduct an SL-3 inventory of the equipment.
3. Conduct Limited Technical Inspections on listed equipment.
4. Pack and secure equipment.
5. Create a packing list.
6. Placard/label the shelters for embark.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 3120.6_ (Standard Embarkation Management System)
2. TM 12041A/15050A-OD/2 CAC2S System User Manual

5.11.10 MARINE AIR CONTROL GROUP (MACG) STAGE

5.11.10.1 Purpose. To teach the trainee common communication and data flow within the MACG.

5.11.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MACG-3750 1.0 1095 B,R,M L

Goal. Identify TACC Communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1.MCRP 5-12D
2.MCWP 3-25.4
3.Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3751 1.0 1095 B,R,M L

Goal. Identify TAOC and EW/C communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3752 1.0 1095 B,R,M L

Goal. Identify DASC communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3753 1.0 1095 B,R,M L

Goal. Identify UAS Communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3754 1.0 1095 B,R,M L

Goal. Identify LAAD Communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3755 1.0 1095 B,R,M L

Goal. Identify MATC communications information exchange requirements.

Requirement. Given the references, identify the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3756 2.0 1095 B,R,M L

Goal. Draw a Communications Diagram for the agencies within the MACG.

Requirement. Given the references and operational diagrams, draw a communications diagram depicting the information exchange requirements for the following agencies:

1. TACC.
2. TAOC.

3. DASC.
4. MATC.
5. UAS.
6. LAAD.

Performance Standard. Pass an exam. Draw a communications diagram without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 3750, 3751, 3752, 3753, 3754, 3755

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1.MCWP 3-2
2.MCWP 3-25.4

5.12 CORE PLUS TRAINING (4000)

5.12.1 Purpose. To provide Core Skill Plus training. A certain number of Core Skill Plus qualified Marines must be maintained to accomplish special missions or tasks, to include supervision and training of a core competent crew. The Marine is exposed to advanced MACCS integration and employment of the TAOC or EW/C within a joint environment.

5.12.2 General.

5.12.2.1 Prerequisiste. 2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

5.12.2.2 Admin Notes. The following information is provided to guide the Marine in the training of this Phase:

(1) Training in this phase does not preclude simultaneous training in the Mission Skill and Core Skill Advanced phases.

(2) Individual Core Skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable. Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event. Crewmember assistance must be restricted to those actions required to support or facilitate individual training so as

not to detract from the individual properly demonstrating the event performance standard.

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

PAR NO.	STAGE NAME
5.12.3	LONG RANGE RADAR (LRR)
5.12.4	MEDIUM RANGE RADAR (MRR)

5.12.3 LONG RANGE RADAR (LRR) STAGE

5.12.3.1 Purpose. To train the trainee on the skills necessary to operate, maintain, and intergrate the AN/TPS-59 Radar system with a Radar Environment Simulator (RES) within the MACS.

5.12.3.2 General

Prerequisite. None.

Admin Notes. None.

Crew Requirements. Core capable TPS-59 crew.

LRR-4520 8.0 * B L

Goal. Install and operate the Radar Environment Simulator (RES).

Requirement. Given the reference, a RES, and an AN/TPS-59 radar and all required tools and TMDE, perform the following:

1. Install the RES.
2. Run a RES scenario.

Performance Standard. With the aid of reference, correctly install the RES and display the scenario on the AN/TPS-59 display, IAW the reference withot error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM-07751B-14/1
2. RES Manual

5.12.4 MEDIUM RANGE RADAR (MRR) STAGE

5.12.3.1 Purpose. To train the trainee on the skills necessary to operate, maintain, and intergrate the AN/TPS-63B Radar system with a C2 node (remote radar) within the MACS.

5.12.3.2 General

Prerequisite. None.

Admin Notes. None.

Crew Requirements. Core capable TPS-63 crew.

MRR-4590 8.0 * B L

Goal. Establish a remote radar link between a C2 node and a MRR system.

Requirement. Given an radar system, all required communication equipment, and a C2 node complete the following:

1. Install remote radar communications equipment.
2. Configure communications equipment for remote radar data.
3. Operate remote radar communications equipment.
4. Verify that the link with the C2 node is passing data.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Applicable TM

5.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

5.13.1 Purpose. To provide technicians the additional skills necessary to instruct, evaluate and approve event completions. Upon completion of the

required training, an individual may be approved for instructor designation by the commanding officer.

5.13.2 General.

5.13.2.1 Prerequisiste. None

5.13.2.2 Admin Notes.

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

b. There are different instructor designations (listed below). The intent is to train individuals with different levels and areas of experience to instruct personnel. Instructor experience is also gained while progressing through the different instructor designations.

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors. The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx.

(4) 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	Core Skill events in which current and proficient.
SI	Core Skill, Mission Skill, and Core Plus events in which current and proficient.

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

PAR NO.	STAGE NAME
5.13.3	INSTRUCTOR UNDER TRAINING (IUT)

5.13.3 INSTRUCTOR UNDER TRAINING (IUT) STAGE

5.13.3.1 Purpose. To train Aviation Communication System Technicians in the fundamentals of instructing and training processes.

5.13.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

T&R CODE	EVENT DESCRIPTION	INSTRUCTOR
5000	Introduce principles of instruction	BI
5010	Understand the structure of an event	BI
5020	Conduct a period of instruction on a core skill event	BI
5100	Understand the Aviation Training and Readiness (T&R) Program	SI
5110	Understand the applicable community T&R program	SI
5120	Understand T&R administration	SI
5130	Develop a training plan	SI

5.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000)

5.14.1 Purpose. This phase provides community standardization for technician qualifications and designations; combat leaders and instructor designations; and tracking of collateral duties (CD) assignments,. This syllabus does not contain "one time" certification training requirements.

5.14.2 General.

5.14.2.1 Prerequisiste. None

5.14.2.2 Admin Notes.

(1) This section enables units to document and track combat leaders, instructors, technician and CD assignments. All syllabus training and administration requirements must be complete prior to being qualified or designated. A qualification or designation is not effective until all administration is completed.

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

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

PAR NO.	STAGE NAME
5.14.3	QUALIFICATION (QUAL)
5.14.4	CERTIFICATIONS (CERT)
5.14.5	DESIGNATION (DESG)
5.14.6	SCHOOL CODES (SCHL)

5.14.3 QUALIFICATIONS (QUAL) STAGE

5.14.3.1 Purpose. To provide for basic and advanced technician qualifications.

5.14.3.2 General

Prerequisite. Refer to the Core Skill and Mission Skill phases for qualification events.

Admin Notes. Policies and rules for attaining and maintaining qualifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

QUAL-6102 0.5 * B L

Goal. Qualification as an Aviation Radar Basic Technician (ARBT).

Requirement. Complete required Aviation Radar Basic Technician training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2195, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

QUAL-6103 0.5 * B L

Goal. Qualification as an Aviation Radar Advanced Technician (ARAT).

Requirement. Complete required Aviation Radar Advanced Technician training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485,

2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

5.14.4 CERTIFICATIONS (CERT) STAGE

5.14.5.1 Purpose. To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

5.14.5.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining certification are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. NONE.

CERT-6200 5.0 * B L

Goal. Certification as a COMPTIA A+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA 220-801 and COMPTIA 220-802. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

CERT-6201 5.0 * B L

Goal. Certification as a COMPTIA Network+ Technician.

Requirement. Complete the required industry certification exam, COMPTIA N10-005. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263, 3282

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

CERT-6202 5.0 * B L

Goal. Certification as a COMPTIA Security+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA SY0-301. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269, 3283

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

5.14.5 DESIGNATIONS (DESG) STAGE

5.14.5.1 Purpose. To provide for designation of combat leaders and instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If

prerequisite R-coded events are delinquent, the individual shall update those events.

5.14.5.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining designations are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

DESG-6303 0.5 * B L

Goal. Designation as an Aviation Radar Chief (ARC).

Requirement. Complete required Aviation Radar Chief training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3660, 3661, 3710, 3711, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

DESG-6304 0.5 * B L

Goal. Designation as an Aviation Radar Chief 63 (ARC63).

Requirement. Complete required Aviation Radar Chief 63 training POI. Be recommended for qualification by a WTI and approved in writing by

the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2354, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3580, 3581, 3582, 3583, 3584, 3660, 3661, 3710, 3711, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

DESG-6305 0.5 * B L

Goal. Designation as an Aviation Radar Maintenance Chief (ARMC).

Requirement. Complete required Aviation Radar Maintenance Chief training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3660, 3661, 3662, 3710, 3711, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756,

6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

DESG-6320 0.5 * B L

Goal. Designation as a Basic Instructor (BI).

Requirement. Be recommended for designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2195, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 5000, 5010, 5020, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14_

DESG-6321 1.0 * B L

Goal. Designation as a Senior Instructor (SI).

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

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497,

2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14_

DESG-6340 1.0 * B L

Goal. Designation as a Maintenance Safety NCO.

Requirement. Perform all duties associated with the Maintenance Safety NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2235, 2236

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

DESG-6341 1.0 * B L

Goal. Designation as a Maintenance HAZMAT NCO.

Requirement. Perform all duties associated with the Hazmat NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2235, 2236

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

DESG-6342 1.0 * B L

Goal. Designation as a Maintenance Publications NCO.

Requirement. Perform all duties associated with the Publications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2234

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_

DESG-6343 1.0 * B L

Goal. Designation as a Maintenance Tools NCO.

Requirement. Perform all duties associated with the Tools NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2233

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_

DESG-6344 1.0 * B L

Goal. Designation as a Maintenance Calibrations NCO.

Requirement. Perform all duties associated with the Calibrations NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2231

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_

DESG-6345 1.0 * B L

Goal. Designation as a Maintenance Modifications NCO.

Requirement. Perform all duties associated with the Modifications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2232, 2234

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_

DESG-6346 1.0 * B L

Goal. Designation as a Maintenance Embarkation NCO.

Requirement. Perform all duties associated with the Embarkation NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2237

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

DESG-6347 1.0 * B L

Goal. Designation as a Marine Corps Integrated Maintenance Management System (MIMMS) NCO.

Requirement. Perform all duties associated with the Marine Corps Integrated Maintenance Management System (MIMMS) NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2159, 2230, 2602

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_

DESG-6348 1.0 * B L

Goal. Designation as a Maintenance Training NCO.

Requirement. Perform all duties associated with the Training NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

DESG-6350 1.0 * B L

Goal. Designation as a Maintenance Quality Control (QC) NCO.

Requirement. Perform all duties associated with the Quality Control NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP

5.14.6 SCHOOL CODES (SCHL) STAGE

5.14.6.1 Purpose. To provide tracking codes for schools that are pertinent to the training of the 5948 in the skill progression of the Marine.

5.14.6.2 General

Prerequisite. NONE.

Admin Notes. Policies and prerequisites for attending the listed schools are maintained within MCTIMS.

Crew Requirements. NONE.

T&R CODE	COURSE NAME	LOCATION	CID/CIN
SCHL-6020	Link 16 Basics Course (JT-100)	Joint Knowledge Online (JKO)	

SCHL-6021	Intro to Multi TDL Network (JT-101)	Fort Bragg, NC	N/A
SCHL-6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	Fort Bragg, NC	A36L6Z1
SCHL-6023	Link 16 Joint Interoperability Course (US-109)	Joint Knowledge Online (JKO)	N/A
SCHL-6024	Multi TDL Planner Course (JT-201)	Fort Bragg, NC	A05KHY1
SCHL-6025	Link 16 Unit Manager (LUM) Course (JT-220)	Fort Bragg, NC	N/A
SCHL 6079	JRE-GW Operators' Course	Titan L3	N/A

5.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

5.15.1 Purpose. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

5.15.2 General

5.15.2.1 Prerequisite. Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase. For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

5.15.2.2 Admin Notes. Prerequisites for this phase of training cannot be waived. Multiple events can be trained at the same time as long as separate evaluations are being conducted.

5.15.2.3 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training.

PAR NO.	STAGE NAME
5.15.3	CONDITION (COND)

5.15.3 CONDITION (COND) STAGE

5.15.3.1 Purpose. To train unit level teams in executing community specific MET(s) or MET preparatory events.

5.15.3.2 General

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Admin Notes. All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter Of Intent (LOI)
2. Personnel Roster
3. Bill Of Material (BOM)
5. Equipment Density List (EDL)

Crew Requirements. This stage requires that all crew members and combat leaders be qualified/designated and proficient (current) in the

position they are assigned for the following events. Crews shall be task organized to meet the mission.

COND-7500 50.0 365 B,R,M C2 System L/S

Goal. Employ a TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a TAOC to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
5. Identify equipment requirements
5. Conduct an RSOP
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of personnel
10. Conduct TAOC operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct TAOC operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. Minimum of two CMMR TAOC Crews

Ordnance. None.

Range. Range space capable of hosting itinerant air traffic, combat air patrols, air-to-air refueling tracks, HVAA tracks

External Syllabus Support. TAOC Detachment Commander and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets.

Reference.
1. U-TAOC-PCL-03862, TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

COND-7505 10.0 365 B,R,M L/S

Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for TAOC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites
2. Identify environmental concerns that may affect TAOC communication
3. Coordinate with higher to provide TAOC requirements
5. Coordinate site security, camouflage, dispersion, and trafficability
5. Identify locations for emplacement of communications and support equipment
6. Coordinate priorities for equipment emplacement
7. Identify echelon considerations
8. Identify Advanced Party/RSOP Team
9. Occupy the site
10. Emplace the TAOC

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Instructor. C3 WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. TAOC Detachment Commander, TAOC Crew Chief, security team, Representatives from the S-2, S-4, S-6

Reference.
1. U-TAOC-PCL-03862 TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

5.16 AVIATION CAREER PROGRESSION MODEL (8000).

5.16.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

Marine Air Command and Control System (MACCS)
Aviation Ground Support
Joint Air Operations
ACE Battle Staff
MAGTF
Seabased Operations
Combatant Commander Organizations

5.16.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced

instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction: https://vcepub.tecom.usmc.mil/sites/msc/magtftc/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	Marine Unmanned Aerial Vehicle Squadron (VMU)		4	2000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000 PHASE
ACPM	8020	**ACE**		1	2000 PHASE
ACPM	8021	AVIATION OPERATIONS		4	2000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000 PHASE
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000 PHASE
ACPM	8024	ASSAULT SUPPORT		4	2000 PHASE
ACPM	8025	AIR RECONNAISSANCE		4	2000 PHASE
ACPM	8026	ELECTRONIC WARFARE		4	2000 PHASE
ACPM	8027	ANTI-AIR WARFARE		4	2000 PHASE
ACPM	8028	AVIATION GROUND SUPPORT		4	2000 PHASE
ACPM	8040	**THREAT**		1	3000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8060	**MAGTF**		1	4000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	4000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	4000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	4000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	4000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	4000 PHASE
ACPM	8066	INFORMATION MANAGEMENT		4	4000 PHASE
ACPM	8067	UAS SUPPORT OF THE MAGTRF		4	4000 PHASE
ACPM	8080	**JOINT AIR OPERATIONS**		1	4000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	4000 PHASE
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	4000 PHASE
ACPM	8083	JOINT FIRE SUPPORT		4	4000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	4000 PHASE
ACPM	8085	JOINT TARGETING		4	4000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	4000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	4000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	4000 PHASE
TOTAL ACPM STAGE			40	145	

5.17 T&R ATTAIN AND MAINTAIN TABLES

TAOC MAINTENANCE MOS 5948											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
CORE SKILL (2000 Phase)											
Conduct an SL-3 inventory.	CMN	2150	*	CMN	2150					-	-
Identify the purpose of Preventive Maintenance Checks and Services (PMCS).	CMN	2151	*	CMN	2151					-	-
Submit a Product Quality Deficiency Report (PQDR).	CMN	2152	*	CMN	2152					-	-
Demonstrate an earth ground installation.	CMN	2153	*	CMN	2153					2173	
Describe the characteristics of unit T/E generators.	CMN	2154	*	CMN	2154	CMN	2154			-	-
Demonstrate how to maintain a tool box.	CMN	2158	*	CMN	2158					2150, 2151	
Initiate a service request.	CMN	2159	*	CMN	2159	CMN	2159			-	-
Compare circuit card performance against a gold disk.	TMDE	2170	*	TMDE	2170					-	-
Utilize an oscilloscope.	TMDE	2171	*	TMDE	2171	TMDE	2171			2172	-
Demonstrate the use of a signal generator.	TMDE	2172	*	TMDE	2172	TMDE	2172			-	-
Utilize a Ground Tester.	TMDE	2173	*	TMDE	2173	TMDE	2173			-	-
Utilize a Power Meter.	TMDE	2174	*	TMDE	2174	TMDE	2174			-	-
Utilize a multimeter.	TMDE	2175	*	TMDE	2175	TMDE	2175			-	-
Measure an RF signal with a spectrum analyzer.	TMDE	2176	*	TMDE	2176	TMDE	2176			-	-
Describe proper handling and storage of classified materials.	COMSEC	2190	365	COMSEC	2190	COMSEC	2190	COMSEC	2190	-	-
State the physical security requirements for classified areas.	COMSEC	2191	365	COMSEC	2191	COMSEC	2191	COMSEC	2191	-	-

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CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Create a classified area physical security diagram.	COMSEC	2192	365	COMSEC	2192	COMSEC	2192	COMSEC	2192	2191	-
Conduct classified material inventory.	COMSEC	2193	365	COMSEC	2193	COMSEC	2193	COMSEC	2193	2190	-
Extract key material information from EKMS COMSEC callout.	COMSEC	2194	*	COMSEC	2194	COMSEC	2194			2190	-
Utilize a Common Fill Device.	COMSEC	2195	365	COMSEC	2195	COMSEC	2195	COMSEC	2195	2190	-
Ensure CMCC handling procedures are followed.	COMSEC	2196	*	COMSEC	2196					2190	-
Ensure EKMS material handling procedures are followed.	COMSEC	2197	*	COMSEC	2197					2190	-
Ensure CCI material handling procedures are followed.	COMSEC	2198	*	COMSEC	2198					2190	-
Ensure physical security of classified areas.	COMSEC	2199	365	COMSEC	2199	COMSEC	2199	COMSEC	2199	2191, 2192	-
Describe HF, VHF, UHF, SATCOM radio characteristics.	FAM	2210	*	FAM	2210					-	-
State the purpose of Automated Data Processing Equipment (ADPE).	FAM	2211	*	FAM	2211					-	-
Describe the CAC2S.	FAM	2212	*	FAM	2212					-	-
Define Tactical Data Links characteristics.	FAM	2213	*	FAM	2213					-	-
Describe MTAOM equipment.	FAM	2214	*	FAM	2214					-	-
Describe Commanders Tactical Terminal (CTT) equipment.	FAM	2215	*	FAM	2215					-	-

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CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Identify the Intelligence Operations Workstation (IOW).	FAM	2216	*	FAM	2216					-	-
Describe T/E radios.	FAM	2217	*	FAM	2217					-	-
Describe C2 Applications.	FAM	2218	*	FAM	2218					-	-
Describe TACLAN.	FAM	2222	*	FAM	2222					-	-
Identify the major components of the Composite Tracking Network (CTN).	FAM	2223	*	FAM	2223					-	-
State the maintenance Collateral Duties (CD).	CD	2230	*	CD	2230	CD	2230			-	-
Identify the Maintenance Calibrations Program.	CD	2231	*	CD	2231					2230	-
Identify the Maintenance Modifications Program.	CD	2232	*	CD	2232					2230	-
Identify the Tool Control Program.	CD	2233	*	CD	2233					2230	-
Identify the Maintenance Publications Library.	CD	2234	*	CD	2234					2230	-
Identify major Maintenance Safety Program elements.	CD	2235	*	CD	2235					2230	-
State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.	CD	2236	*	CD	2236					2230	-
Identify the key elements of the Maintenance Embarkation Program.	CD	2237	*	CD	2237					2230	-
Identify the equipment record jacket.	CD	2238	*	CD	2238					2230	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Perform Quality Control Procedures.	CD	2240	1460	CD	2240	CD	2240	CD	2240	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2193, 2194, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3660, 3715, 6103	-
Identify the Maintenance Training program.	CD	2243	*	CD	2243					2230	-
Explain PC hardware.	IAWFAT	2250	*	IAWFAT	2250					-	-
Explain networking concepts.	IAWFAT	2251	*	IAWFAT	2251					-	-
Explain laptop features and characteristics.	IAWFAT	2252	*	IAWFAT	2252					-	-
Explain printer features and characteristics.	IAWFAT	2253	*	IAWFAT	2253					-	-
Explain operational procedures.	IAWFAT	2254	*	IAWFAT	2254					-	-
Explain operating systems.	IAWFAT	2255	*	IAWFAT	2255					-	-
Explain security.	IAWFAT	2256	*	IAWFAT	2256					-	-
Explain Mobile Devices.	IAWFAT	2257	*	IAWFAT	2257					-	-
Explain Troubleshooting.	IAWFAT	2258	*	IAWFAT	2258					-	-
Explain Networking Concepts.	IAWFNT	2259	*	IAWFNT	2259					-	-
Explain Network Installation and Configuration.	IAWFNT	2260	*	IAWFNT	2260					-	-
Explain Network Media and Topologies.	IAWFNT	2261	*	IAWFNT	2261					-	-
Explain Network Management.	IAWFNT	2262	*	IAWFNT	2262					-	-
Explain Network Security.	IAWFNT	2263	*	IAWFNT	2263					-	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain Network Security.	IAWFST	2264	*	IAWFST	2264					-	-
Explain Operational Security.	IAWFST	2265	*	IAWFST	2265					-	-
Explain threats and vulnerabilities.	IAWFST	2266	*	IAWFST	2266					-	-
Explain cryptography.	IAWFST	2267	*	IAWFST	2267					-	-
Explain access control and identity management.	IAWFST	2268	*	IAWFST	2268					-	-
Explain application, data and host security.	IAWFST	2269	*	IAWFST	2269					-	-
Describe the Identification Friend or Foe (IFF) Mark XII/XIIA components.	IFF	2350	*	IFF	2350					-	-
Configure the Interrogator Set for operations within the radar.	IFF	2351	*	IFF	2351	IFF	2351			-	-
Perform corrective maintenance on the Interrogator Set.	IFF	2352	*	IFF	2352					-	-
Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the LRR.	IFF	2353	*	IFF	2353	IFF	2353			-	-
Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the MRR.	IFF	2354	*	IFF	2354	IFF	2354			-	-
Describe the theory of operation of the Tactical Air Operations Module Interface Group (TIG).	RDR	2360	*	RDR	2360					-	-
Define RF wave propagation.	RDR	2361	730	RDR	2361	RDR	2361	RDR	2361	-	-

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CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain the theory of electronic countermeasure (ECM) and electronic counter-countermeasures (ECCM).	RDR	2362	730	RDR	2362	RDR	2362	RDR	2362	-	-
Describe the characteristics of LRRs and MRRs.	RDR	2363	730	RDR	2363	RDR	2363	RDR	2363	-	-
Identify organic tools and kits.	RDR	2364	*	RDR	2364					-	-
Operate the paving breaker.	RDR	2365	*	RDR	2365					-	-
Maintain the paving breaker.	RDR	2366	*	RDR	2366					-	-
Repair cables.	RDR	2367	*	RDR	2367					-	-
Integrate the Portable Autonomous Report Collection System (PARCS) into a radar system for track/data verification.	RDR	2368	*	RDR	2368					-	-
Identify hazards specific to the LRR.	LRR	2480	*	LRR	2480					-	-
Verify system performance of the LRR.	LRR	2481	*	LRR	2481					-	-
Identify LRR embarkation considerations.	LRR	2482	365	LRR	2482	LRR	2482	LRR	2482	-	-
Assemble the LRR.	LRR	2483	730	LRR	2483	LRR	2483	LRR	2483	-	-
Operate the Antenna Electronics Test Unit (AETU) of the LRR.	LRR	2484	730	LRR	2484	LRR	2484	LRR	2484	-	-
Perform row transmitter power module performance test.	LRR	2485	*	LRR	2485					-	-
Conduct preventive maintenance on the LRR.	LRR	2486	*	LRR	2486					-	-
Describe the transmit path of the LRR.	LRR	2487	730	LRR	2487	LRR	2487	LRR	2487	-	-
Describe the receive path of the LRR.	LRR	2488	730	LRR	2488	LRR	2488	LRR	2488	-	-

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CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Perform corrective maintenance on the AC and DC Power Distribution subsystem of the LRR.	LRR	2489	*	LRR	2489					-	-
Perform corrective maintenance on the Exciter of the LRR.	LRR	2490	*	LRR	2490					-	-
Perform corrective maintenance on the Final Receiver of the LRR.	LRR	2491	*	LRR	2491					-	-
Perform corrective maintenance on the 1A5A1 (data array distribution) on the LRR.	LRR	2492	*	LRR	2492					-	-
Perform corrective maintenance on the Array Electronics of the LRR.	LRR	2493	*	LRR	2493					-	-
Perform corrective maintenance on the Electro-mechanical subsystem of Unit 1 in the LRR.	LRR	2494	*	LRR	2494					-	-
Perform corrective maintenance on the Signal Processor/Data Processor.	LRR	2495	*	LRR	2495					-	-
Perform corrective maintenance on the IFF subsystem of the LRR.	LRR	2496	*	LRR	2496					-	-
Perform corrective maintenance on the LRR equipment trailers.	LRR	2497	*	LRR	2497					-	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Verify the operation of a circuit card using the Printed Circuit Board Tester.	LRR	2498	*	LRR	2498					-	-
Perform corrective maintenance on the AN/UPA-61 RF switching group.	LRR	2499	*	LRR	2499					-	-
Describe the theory of operations to the block diagram level of the LRR data processing group (Unit 2).	LRR	2500	*	LRR	2500					-	-
Perform Unix functions within the LRR.	LRR	2501	*	LRR	2501					-	-
Verify connection between the LRR and a C2 node.	LRR	2502	*	LRR	2502					-	-
Verify radar performance utilizing PMFL and Tables menus of the LRR.	LRR	2503	730	LRR	2503	LRR	2503	LRR	2503	-	-
Perform LRR final receiver alignment.	LRR	2504	*	LRR	2504					-	-
Perform LRR maintenance lift torque limiter alignment.	LRR	2505	*	LRR	2505					-	-
State the radar system power alignments.	LRR	2506	*	LRR	2506					-	-
Perform corrective maintenance on the OE-442.	LRR	2507	*	LRR	2507					-	-
Describe each SET function of the LRR.	LRR	2508	365	LRR	2508	LRR	2508	LRR	2508	-	-
Configure the LRR Radar for an operational environment.	LRR	2509	*	LRR	2509					-	-
Perform Performance Monitoring Fault Location (PMFL) tests on the LRR.	LRR	2510	*	LRR	2510					-	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Operate the Global Positioning System (GPS) within the LRR.	LRR	2511	*	LRR	2511					-	-
Prepare the LRR Radar for relocation.	LRR	2512	730	LRR	2512	LRR	2512	LRR	2512	-	-
Employ OE-442.	LRR	2513	730	LRR	2513	LRR	2513	LRR	2513	-	-
Identify hazards specific to the MRR.	MRR	2540	*	MRR	2540					-	-
Configure the MRR for an operational environment.	MRR	2541	365	MRR	2541	MRR	2541	MRR	2541	-	-
Align the receiver on the MRR.	MRR	2542	*	MRR	2542					-	-
Operate the AN/UYQ-509 Scope.	MRR	2543	*	MRR	2543					-	-
Describe the operation of the Synchronizer in the MRR.	MRR	2544	*	MRR	2544					-	-
Verify Mode 4 operation in the MRR.	MRR	2545	730	MRR	2545	MRR	2545	MRR	2545	-	-
Prepare the MRR for relocation.	MRR	2546	730	MRR	2546	MRR	2546	MRR	2546	-	-
Setup the MRR system.	MRR	2547	730	MRR	2547	MRR	2547	MRR	2547	-	-
Perform pre-operational checks on the MRR system.	MRR	2548	*	MRR	2548					-	-
Operate the MRR system.	MRR	2549	730	MRR	2549	MRR	2549	MRR	2549	-	-
Familiarization with MRR embarkation considerations.	MRR	2550	*	MRR	2550					-	-
Conduct Preventive Maintenance Checks and Services (PMCS) on the MRR.	MRR	2551	*	MRR	2551					-	-
Perform corrective maintenance to the Power Distribution subsystem in the MRR.	MRR	2552	*	MRR	2552					-	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Perform corrective maintenance to the Multi-Level Power Supply subsystem in the MRR.	MRR	2553	*	MRR	2553					-	-
Perform corrective maintenance to the Frequency Generator subsystem in the MRR.	MRR	2554	*	MRR	2554					-	-
Perform corrective maintenance to the RF/IF Receiver subsystem in the MRR.	MRR	2555	*	MRR	2555					-	-
Perform corrective maintenance on the Antenna and Antenna Control subsystem in the MRR.	MRR	2556	*	MRR	2556					-	-
Perform corrective maintenance on the Transmitter Control subsystem in the MRR.	MRR	2557	*	MRR	2557					-	-
Perform corrective maintenance to the TWT subsystem of the transmitter in the MRR.	MRR	2558	*	MRR	2558					-	-
Perform corrective maintenance to the Coolant subsystem in the MRR.	MRR	2559	*	MRR	2559					-	-
Perform corrective maintenance on the Extended Range Processor (ERP) subsystem of the receiver in the MRR.	MRR	2560	*	MRR	2560					-	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Perform corrective maintenance on the Digital Target Extractor (DTE) subsystem of the receiver in the MRR.	MRR	2561	*	MRR	2561					-	-
Perform corrective maintenance on the Radar Control Panel (RCP) subsystem of the MRR.	MRR	2562	*	MRR	2562					-	-
Perform corrective maintenance on the IFF subsystem of the MRR.	MRR	2563	*	MRR	2563					-	-
Perform alignment of the turn-off pulser.	MRR	2564	*	MRR	2564	MRR	2564			-	-
Perform alignment of the grid pulser.	MRR	2565	*	MRR	2565	MRR	2565			-	-
Perform corrective maintenance on the MRR digital target extractor (DTE)/extended range processor (ERP).	MRR	2566	*	MRR	2566					-	-
Perform corrective maintenance on the MRR radar control panel (1A13).	MRR	2567	*	MRR	2567					-	-
Perform corrective maintenance on an MRR radar secondary reparable item.	MRR	2568	*	MRR	2568					-	-
Verify data output from MRR.	MRR	2569	*	MRR	2569					-	-
Ensure preparatory measures are taken for disposition of equipment.	MMGT	2600	*	MMGT	2600					2150	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Create a Preventive Maintenance Checks and Services (PMCS) schedule.	MMGT	2601	*	MMGT	2601					2151	-
Reconcile Global Combat Supply System (GCSS) reports.	MMGT	2602	*	MMGT	2602	MMGT	2602			2159	-
Identify the SECREP management process.	MMGT	2603	*	MMGT	2603					-	-
Define RA with regards to O&M funds.	MMGT	2604	*	MMGT	2604					-	-
Define PE with regards to O&M funds.	MMGT	2605	*	MMGT	2605					-	-
Induct new equipment into service.	MMGT	2606	*	MMGT	2606					2150, 2159, 2231, 2238	-
Phase out equipment.	MMGT	2607	*	MMGT	2607					2150	-
Inspect maintenance functional areas.	MMGT	2608	*	MMGT	2608	MMGT	2608			2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239	-
State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	MMGT	2609	*	MMGT	2609					-	-
Identify the Marine Corps Urgent Needs Process (MCUNP).	MMGT	2610	*	MMGT	2610					-	-
Conduct a Consolidated Memorandum Receipt (CMR) Review.	MMGT	2611	*	MMGT	2611					-	-
Verify inventory control procedures are implemented.	MMGT	2612	*	MMGT	2612					2150, 2159	-
Identify the functions of maintenance management.	MMGT	2613	*	MMGT	2613					2602, 2603, 2609, 2611	-
Ensure equipment is inducted into maintenance cycle.	MMGT	2614	*	MMGT	2614					2159	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Identify the purpose of communication planning documents.	OMGT	2680	*	OMGT	2680					-	-
Determine required equipment to support a mission.	OMGT	2681	365	OMGT	2681	OMGT	2681	OMGT	2681	-	-
Conduct communications portion of a site survey.	OMGT	2682	1460	OMGT	2682	OMGT	2682	OMGT	2682	-	-
Identify crew requirements and write a crew schedule.	OMGT	2683	*	OMGT	2683					-	-
Determine supply support requirements.	OMGT	2684	*	OMGT	2684					2691	-
Develop an embarkation plan.	OMGT	2685	*	OMGT	2685					2687	-
Write a packing list.	OMGT	2686	1460	OMGT	2686	OMGT	2686	OMGT	2686	-	-
Write an Equipment Density List (EDL).	OMGT	2687	*	OMGT	2687					-	-
Identify power requirements.	OMGT	2688	365	OMGT	2688	OMGT	2688	OMGT	2688	-	-
Identify spectrum management procedures.	OMGT	2689	*	OMGT	2689					-	-
Fill out a Logistics Support Request (LSR).	OMGT	2690	*	OMGT	2690					-	-
Submit a Bill of Material (BOM) request.	OMGT	2691	*	OMGT	2691					-	-
Describe common agency doctrinal nets.	OMGT	2692	*	OMGT	2692					-	-
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		
Explain concepts included in A+ exam 220-801.	IAWFAT	3280	1095	IAWFAT	3280	IAWFAT	3280	IAWFAT	3280	2250, 2251, 2252, 2253, 2254	-
Explain concepts included in A+ exam 220-802.	IAWFAT	3281	1095	IAWFAT	3281	IAWFAT	3281	IAWFAT	3281	2255, 2256, 2257, 2258	-

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T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain concepts included in Network+ exam N10-005.	IAWFNT	3282	1095	IAWFNT	3282	IAWFNT	3282	IAWFNT	3282	2259, 2260, 2261, 2262, 2263	-
Explain concepts included in Security + exam SY0-301.	IAWFST	3283	1095	IAWFST	3283	IAWFST	3283	IAWFST	3283	2264, 2265, 2266, 2267, 2268, 2269	-
Ensure the LRR radar system is properly assembled.	LRR	3514	*	LRR	3514					-	-
Ensure the LRR radar system is properly disassembled.	LRR	3515	*	LRR	3515					-	-
Deploy a long range radar system ISO operations.	LRR	3516	*	LRR	3516					-	-
Perform system troubleshooting on the LRR.	LRR	3517	*	LRR	3517					-	-
Plan for and coordinate efforts in deploying a long range radar system.	LRR	3518	*	LRR	3518					-	-
Verify the configuration of the LRR.	LRR	3519	730	LRR	3519	LRR	3519	LRR	3519	-	-
Establish a remote radar link between a C2 node and an LRR system.	LRR	3521	1095	LRR	3521	LRR	3521	LRR	3521	-	-
Verify the configuration of the MRR for an operational environment.	MRR	3580	730	MRR	3580	MRR	3580	MRR	3580	-	-
Ensure the proper setup the MRR.	MRR	3581	*	MRR	3581					-	-
Deploy a MRR ISO operations.	MRR	3582	*	MRR	3582					-	-
Perform system troubleshooting on the MRR.	MRR	3583	*	MRR	3583	MRR	3583			-	-
Plan for and coordinate efforts in deploying a MRR system.	MRR	3584	*	MRR	3584					-	-
Set-up the CS.	EQUIP	3470	730	EQUIP	3470	EQUIP	3470	EQUIP	3470	-	-

TAOC MAINTENANCE MOS 5948											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Troubleshoot faulty system component in a CS.	EQUIP	3471	730	EQUIP	3471	EQUIP	3471	EQUIP	3471	-	-
Ensure the corrective maintenance repair process is being conducted.	MMGT	3660	*	MMGT	3660					-	-
Validate SECREP assets.	MMGT	3661	1095	MMGT	3661	MMGT	3661	MMGT	3661	-	-
Assess maintenance funding requirements.	MMGT	3662	*	MMGT	3662					-	-
Provide input to the operational plan.	OMGT	3710	1095	OMGT	3710	OMGT	3710	OMGT	3710	-	-
Organize and assign crews for deployment.	OMGT	3711	*	OMGT	3711					-	-
Deploy a maintenance capability.	OMGT	3714	*	OMGT	3714					-	-
Prepare system for embark.	OMGT	3715	*	OMGT	3715					-	-
Identify TACC Communications information exchange requirements.	MACG	3750	1095	MACG	3750	MACG	3750	MACG	3750	-	-
Identify TAOC and EW/C communications information exchange requirements.	MACG	3751	1095	MACG	3751	MACG	3751	MACG	3751	-	-
Identify DASC communications information exchange requirements.	MACG	3752	1095	MACG	3752	MACG	3752	MACG	3752	-	-
Identify UAS Communications information exchange requirements.	MACG	3753	1095	MACG	3753	MACG	3753	MACG	3753	-	-
Identify LAAD Communications information exchange requirements.	MACG	3754	1095	MACG	3754	MACG	3754	MACG	3754	-	-
Identify MATC communications information exchange requirements.	MACG	3755	1095	MACG	3755	MACG	3755	MACG	3755	-	-

TAOC MAINTENANCE MOS 5948											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Draw a Communications Diagram for the agencies within the MACG.	MACG	3756	1095	MACG	3756	MACG	3756	MACG	3756	3750, 3751, 3752, 3753, 3754, 3755	-
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		
Install and operate the Radar Environment Simulator (RES).	LRR	4520	*	LRR	4520					-	-
Establish a remote radar link between a C2 node and a MRR system.	MRR	4590	*	MRR	4590					-	-

5.18 T&R SYLLABUS MATRIX

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
AIR SCHOOLS (AIRS) STAGE																			
AIRS	1050	Perform corrective maintenance on the AN/TPS-59A(V)3 Radar system to the Line Replaceable Unit (LRU).	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1051	Perform corrective maintenance on the AN/UPX-37 Digital Interrogator to the Line Replaceable Unit (LRU).	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1052	Assemble the AN/TPS-59A(V)3 Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1053	Perform post emplacement procedures on the AN/TPS-59A(V)3 Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1054	Perform alignment procedures on the AN/TPS-59A(V)3 Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1055	Operate the AN/TPS-59A(V)3 Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1056	Perform corrective maintenance on the AN/TPS-63B Radar system to the Line Replaceable Unit (LRU).	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1057	Perform alignment procedures on the AN/TPS-63B Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1058	Operate the AN/TPS-63B Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1059	Perform pre-operational checks on the AN/TPS-63B Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1060	Setup the AN/TPS-63B Radar system.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1061	Prepare the AN/TPS-59A(V)3 Radar for relocation.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
AIRS	1062	Prepare the AN/TPS-63B for relocation.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1063	Install Identification Friend or Foe (IFF) equipment in the AN/TPS-59A(V)3.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1064	Install Identification Friend or Foe (IFF) equipment in the AN/TPS-63B Radar.	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
AIRS	1121	Describe the Marine Air Control Squadron (MACS).	B	E	G	-	-	D	*		0		0		0.0	-	-	-	-
TOTAL AIR SCHOOLS (AIRS) SKILL STAGE										1	0	0	0	0	0.0				
TOTAL CORE SKILL INTRODUCTION PHASE TRAINING (1000 PHASE)										14	0	0	0	0	0.0				
MACCS MAINTENANCE COMMON (CMN)																			
CMN	2150	Conduct an SL-3 inventory.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
CMN	2151	Identify the purpose of Preventive Maintenance Checks and Services (PMCS).	B	-	L	-	-	-	*		0		0		1.5	-	-	-	-
CMN	2152	Submit a Product Quality Deficiency Report (PQDR).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
CMN	2153	Demonstrate an earth ground installation.	B	-	L	-	-	-	*		0		0		3.0	2173			
CMN	2154	Describe the characteristics of unit T/E generators.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
CMN	2158	Demonstrate how to maintain a tool box.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151			
CMN	2159	Initiate a service request.	B,R	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL MACCS MAINTENANCE COMMON (CMN) STAGE										0	0	0	0	7	12.5				
TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE)																			
TMDE	2170	Compare circuit card performance against a gold disk.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TMDE	2171	Utilize an oscilloscope.	B,R	-	L	-	-	-	*		0		0		2.0	2172	-	-	-
TMDE	2172	Demonstrate the use of a signal generator.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TMDE	2173	Utilize a Ground Tester.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TMDE	2174	Utilize a Power Meter.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TMDE	2175	Utilize a multimeter.	B,R	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TMDE	2176	Measure an RF signal with a spectrum analyzer.	B,R	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE) STAGE										0	0	0	0	7	12.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
COMMUNICATION SECURITY (COMSEC)																			
COMSEC	2190	Describe proper handling and storage of classified materials.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
COMSEC	2191	State the physical security requirements for classified areas.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
COMSEC	2192	Create a classified area physical security diagram.	B,R,M	-	L	-	-	-	365		0		0		2.0	2191	-	-	-
COMSEC	2193	Conduct classified material inventory.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2194	Extract key material information from EKMS COMSEC callout.	B,R	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2195	Utilize a Common Fill Device.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2196	Ensure CMCC handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2197	Ensure EKMS material handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2198	Ensure CCI material handling procedures are followed.	B	-	L	-	-	-	*		0		0		1.0	2190	-	-	-
COMSEC	2199	Ensure physical security of classified areas.	B,R,M	-	L	-	-	-	365		0		0		2.0	2191, 2192	-	-	-
TOTAL COMMUNICATION SECURITY (COMSEC) STAGE										0	0	0	0	10	19.0				
FAMILIARIZATION (FAM)																			
FAM	2210	Describe HF, VHF, UHF, SATCOM radio characteristics.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
FAM	2211	State the purpose of Automated Data Processing Equipment (ADPE).	B	-	L	-	-	-	*		0		0		3.0	-	-	-	-
FAM	2212	Describe the CAC2S.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
FAM	2213	Define Tactical Data Links characteristics.	B	-	L	-	-	-	*		0		0		3.0	-	-	-	-
FAM	2214	Describe MTAOM equipment.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2215	Describe Commanders Tactical Terminal (CTT) equipment.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
FAM	2216	Identify the Intelligence Operations Workstation (IOW).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
FAM	2217	Describe T/E radios.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2218	Describe C2 Applications.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2222	Describe TACLAN.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2223	Identify the major components of the Composite Tracking Network (CTN).	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL FAMILIARIZATION (FAM) STAGE										0	0	0	0	11	18.0				
COLLATERAL DUTY (CD)																			
CD	2230	State the maintenance Collateral Duties (CD).	B,R	-	L	-	-	-	*		0		0		8.0	-	-	-	-
CD	2231	Identify the Maintenance Calibrations Program.	B	-	L	-	-	-	*		0		0		1.0	2230	-	-	-
CD	2232	Identify the Maintenance Modifications Program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2233	Identify the Tool Control Program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2234	Identify the Maintenance Publications Library.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2235	Identify major Maintenance Safety Program elements.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2236	State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2237	Identify the key elements of the Maintenance Embarkation Program.	B	-	L	-	-	-	*		0		0		3.0	2230	-	-	-
CD	2238	Identify the equipment record jacket.	B	-	L	-	-	-	*		0		0		1.0	2230	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																		
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CD	2240	Perform Quality Control Procedures.	B,R,M	-	L	-	-	-	1460		0		0		2.0	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
CD	2243	Identify the Maintenance Training program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
TOTAL COLLATERAL DUTY (CD) STAGE										0	0	0	0	11	27.0				
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT)																			
IAWFAT	2250	Explain PC hardware.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2251	Explain networking concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2252	Explain laptop features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2253	Explain printer features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2254	Explain operational procedures.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2255	Explain operating systems.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2256	Explain security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2257	Explain Mobile Devices.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2258	Explain Troubleshooting.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFA) STAGE										0	0	0	0	9	36.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT)																			
IAWFNT	2259	Explain Networking Concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2260	Explain Network Installation and Configuration.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2261	Explain Network Media and Topologies.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2262	Explain Network Management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2263	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	5	20.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST)																			
IAWFST	2264	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2265	Explain Operational Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2266	Explain threats and vulnerabilities.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2267	Explain cryptography.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2268	Explain access control and identity management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2269	Explain application, data and host security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	6	24.0				
IDENTIFICATION FRIEND OR FOE (IFF)																			
IFF	2350	Describe the Identification Friend or Foe (IFF) Mark XII/XIIA components.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
IFF	2351	Configure the Interrogator Set for operations within the radar.	B,R	-	L	-	-	-	*		0		0		1.0	-	-	-	-
IFF	2352	Perform corrective maintenance on the Interrogator Set.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
IFF	2353	Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the LRR.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
IFF	2354	Describe the theory of operation of Identification Friend or Foe (IFF) equipment in the MRR.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL IDENTIFICATION FRIEND OR FOE (IFF) STAGE										0	0	0	0	5	9.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
RADAR (RDR)																			
RDR	2360	Describe the theory of operation of the Tactical Air Operations Module Interface Group (TIG).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
RDR	2361	Define RF wave propagation.	B,R,M	E	L	-	-	-	730		0		0		2.0	-	-	-	-
RDR	2362	Explain the theory of electronic countermeasure (ECM) and electronic counter-countermeasures (ECCM).	B,R,M	E	L	-	-	-	730		0		0		2.0	-	-	-	-
RDR	2363	Describe the characteristics of LRRs and MRRs.	B,R,M	E	L	-	-	-	730		0		0		2.0	-	-	-	-
RDR	2364	Identify organic tools and kits.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
RDR	2365	Operate the paving breaker.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
RDR	2366	Maintain the paving breaker.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
RDR	2367	Repair cables.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
RDR	2368	Integrate the Portable Autonomous Report Collection System (PARCS) into a radar system for track/data verification.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL RADAR (RDR) STAGE										0	0	0	0	9	19.0				
LONG RANGE RADAR (LRR)																			
LRR	2480	Identify hazards specific to the LRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2481	Verify system performance of the LRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2482	Identify LRR embarkation considerations.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
LRR	2483	Assemble the LRR.	B,R,M	-	L	-	-	-	730		0		0		8.0	-	-	-	-
LRR	2484	Operate the Antenna Electronics Test Unit (AETU) of the LRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
LRR	2485	Perform row transmitter power module performance test.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2486	Conduct preventive maintenance on the LRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
LRR	2487	Describe the transmit path of the LRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
LRR	2488	Describe the receive path of the LRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
LRR	2489	Perform corrective maintenance on the AC and DC Power Distribution subsystem of the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2490	Perform corrective maintenance on the Exciter of the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2491	Perform corrective maintenance on the Final Receiver of the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2492	Perform corrective maintenance on the 1A5A1 (data array distribution) on the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2493	Perform corrective maintenance on the Array Electronics of the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2494	Perform corrective maintenance on the Electro-mechanical subsystem of Unit 1 in the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2495	Perform corrective maintenance on the Signal Processor/Data Processor.	B	-	L	-	-	-	*		0		0		12.0	-	-	-	-
LRR	2496	Perform corrective maintenance on the IFF subsystem of the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2497	Perform corrective maintenance on the LRR equipment trailers.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2498	Verify the operation of a circuit card using the Printed Circuit Board Tester.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2499	Perform corrective maintenance on the AN/UPA-61 RF switching group.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
LRR	2500	Describe the theory of operations to the block diagram level of the LRR data processing group (Unit 2).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2501	Perform Unix functions within the LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2502	Verify connection between the LRR and a C2 node.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2503	Verify radar performance utilizing PMFL and Tables menus of the LRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
LRR	2504	Perform LRR final receiver alignment.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2505	Perform LRR maintenance lift torque limiter alignment.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
LRR	2506	State the radar system power alignments.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2507	Perform corrective maintenance on the OE-442.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2508	Describe each SET function of the LRR.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
LRR	2509	Configure the LRR Radar for an operational environment.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2510	Perform Performance Monitoring Fault Location (PMFL) tests on the LRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2511	Operate the Global Positioning System (GPS) within the LRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
LRR	2512	Prepare the LRR Radar for relocation.	B,R,M	-	L	-	-	-	730		0		0		8.0	-	-	-	-
LRR	2513	Employ OE-442.	B,R,M	-	L	-	-	-	730		0		0		8.0	-	-	-	-
TOTAL LONG RANGE RADAR (LRR) STAGE										0	0	0	0	34	120.0				
MEDIUM RANGE RADAR (MRR)																			
MRR	2540	Identify hazards specific to the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2541	Configure the MRR for an operational environment.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MRR	2542	Align the receiver on the MRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2543	Operate the AN/UYQ-509 Scope.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2544	Describe the operation of the Synchronizer in the MRR.	B,R	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2545	Verify Mode 4 operation in the MRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
MRR	2546	Prepare the MRR for relocation.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
MRR	2547	Setup the MRR system.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
MRR	2548	Perform pre-operational checks on the MRR system.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2549	Operate the MRR system.	B,R,M	-	L	-	-	-	730		0		0		2.0	-	-	-	-
MRR	2550	Familiarization with MRR embarkation considerations.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2551	Conduct Preventive Maintenance Checks and Services (PMCS) on the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2552	Perform corrective maintenance to the Power Distribution subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2553	Perform corrective maintenance to the Multi-Level Power Supply subsystem in the MRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2554	Perform corrective maintenance to the Frequency Generator subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2555	Perform corrective maintenance to the RF/IF Receiver subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2556	Perform corrective maintenance on the Antenna and Antenna Control subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MRR	2557	Perform corrective maintenance on the Transmitter Control subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2558	Perform corrective maintenance to the TWT subsystem of the transmitter in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2559	Perform corrective maintenance to the Coolant subsystem in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2560	Perform corrective maintenance on the Extended Range Processor (ERP) subsystem of the receiver in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2561	Perform corrective maintenance on the Digital Target Extractor (DTE) subsystem of the receiver in the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2562	Perform corrective maintenance on the Radar Control Panel (RCP) subsystem of the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2563	Perform corrective maintenance on the IFF subsystem of the MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MRR	2564	Perform alignment of the turn-off pulser.	B,R	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2565	Perform alignment of the grid pulser.	B,R	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2566	Perform corrective maintenance on the MRR digital target extractor (DTE)/extended range processor (ERP).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2567	Perform corrective maintenance on the MRR radar control panel (1A13).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MRR	2568	Perform corrective maintenance on an MRR radar secondary reparable item.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MRR	2569	Verify data output from MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL MEDIUM RANGE RADAR (MRR) STAGE										0	0	0	0	30	74.0				
MAINTENANCE MANAGEMENT (MMGT)																			
MMGT	2600	Ensure preparatory measures are taken for disposition of equipment.	B	-	L	-	-	-	*		0		0		3.0	2150	-	-	-
MMGT	2601	Create a Preventive Maintenance Checks and Services (PMCS) schedule.	B	-	L	-	-	-	*		0		0		1.0	2151	-	-	-
MMGT	2602	Reconcile Global Combat Supply System (GCSS) reports.	B,R	-	L	-	-	-	*		0		0		4.0	2159	-	-	-
MMGT	2603	Identify the SECREP management process.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2604	Define RA with regards to O&M funds.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2605	Define PE with regards to O&M funds.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2606	Induct new equipment into service.	B	-	L	-	-	-	*		0		0		2.0	2150, 2159, 2231, 2238	-	-	-
MMGT	2607	Phase out equipment.	B	-	L	-	-	-	*		0		0		2.0	2150	-	-	-
MMGT	2608	Inspect maintenance functional areas.	B,R	-	L	-	-	-	*		0		0		16.0	2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238	-	-	-
MMGT	2609	State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2610	Identify the Marine Corps Urgent Needs Process (MCUNP).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2611	Conduct a Consolidated Memorandum Receipt (CMR) Review.	B	-	L	-	-	-	*		0		0		40.0	-	-	-	-
MMGT	2612	Verify inventory control procedures are implemented.	B	-	L	-	-	-	*		0		0		1.5	2150, 2159	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MMGT	2613	Identify the functions of maintenance management.	B	-	L	-	-	-	*		0		0		13.0	2602, 2603, 2609, 2611	-	-	-
MMGT	2614	Ensure equipment is inducted into maintenance cycle.	B	-	L	-	-	-	*		0		0		1.0	2159	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0	0	0	15	93.5				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	2680	Identify the purpose of communication planning documents.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
OMGT	2681	Determine required equipment to support a mission.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
OMGT	2682	Conduct communications portion of a site survey.	B,R,M	-	L	-	-	-	1460		0		0		4.0	-	-	-	-
OMGT	2683	Identify crew requirements and write a crew schedule.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
OMGT	2684	Determine supply support requirements.	B	-	L	-	-	-	*		0		0		3.0	2691	-	-	-
OMGT	2685	Develop an embarkation plan.	B	-	L	-	-	-	*		0		0		1.0	2687	-	-	-
OMGT	2686	Write a packing list.	B,R,M	-	L	-	-	-	1460		0		0		8.0	-	-	-	-
OMGT	2687	Write an Equipment Density List (EDL).	B	-	L	-	-	-	*		0		0		8.0	-	-	-	-
OMGT	2688	Identify power requirements.	B,R,M	-	L	-	-	-	365		0		0		4.0	-	-	-	-
OMGT	2689	Identify spectrum management procedures.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
OMGT	2690	Fill out a Logistics Support Request (LSR).	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
OMGT	2691	Submit a Bill of Material (BOM) request.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
OMGT	2692	Describe common agency doctrinal nets.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0	0	0	13	39.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										0	0.0	0	0.0	172	523.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE																			
IAWFAT	3280	Explain concepts included in A+ exam 220-801.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2250, 2251, 2252, 2253, 2254	-	-	-
IAWFAT	3281	Explain concepts included in A+ exam 220-802.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2255, 2256, 2257, 2258	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE										0	0	0	0	2	8.0				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE																			
IAWFNT	3282	Explain concepts included in Network+ exam N10-005.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2259, 2260, 2261, 2262, 2263	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	1	4.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																			
IAWFST	3283	Explain concepts included in Security + exam SY0-301.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	1	4.0				
LONG RANGE RADAR (LRR)																			
LRR	3514	Ensure the LRR radar system is properly assembled.	B	-	L	-	-	-	*		0		0		8.0	2480, 2483	-	-	-
LRR	3515	Ensure the LRR radar system is properly disassembled.	B	-	L	-	-	-	*		0		0		8.0	2480, 2512	-	-	-
LRR	3516	Deploy a long range radar system ISO operations.	B	-	L	-	-	-	*		0		0		12.0	2480, 2482, 2483, 2502, 2512	-	-	-
LRR	3517	Perform system troubleshooting on the LRR.	B	-	L	-	-	-	*		0		0		8.0	2480, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500	-	-	-
LRR	3518	Plan for and coordinate efforts in deploying a long range radar system.	B	-	L	-	-	-	*		0		0		12.0	2480, 2482	-	-	-
LRR	3519	Verify the configuration of the LRR.	B,R,M	-	L	-	-	-	730		0		0		2.0	2481, 2485, 2503	-	-	-
LRR	3521	Establish a remote radar link between a C2 node and an LRR system.	B,R,M	-	L	-	-	-	1095		0		0		8.0	2502	-	-	-
TOTAL LONG RANGE RADAR (LRR) STAGE										0	0	0	0	8	58.0				
MEDIUM RANGE RADAR (MRR)																			
MRR	3580	Verify the configuration of the MRR for an operational environment.	B,R,M	-	L	-	-	-	730		0		0		2.0	2541, 2548, 2549	-	-	-
MRR	3581	Ensure the proper setup the MRR.	B	-	L	-	-	-	*		0		0		8.0	2540, 2547	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MRR	3582	Deploy a MRR ISO operations.	B	-	L	-	-	-	*		0		0		12.0	2540, 2541, 2546, 2547, 2549	-	-	-
MRR	3583	Perform system troubleshooting on the MRR.	B,R	-	L	-	-	-	*		0		0		8.0	2540, 2541, 2543, 2548, 2549, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568	-	-	-
MRR	3584	Plan for and coordinate efforts in deploying a MRR system.	B	-	L	-	-	-	*		0		0		12.0	2540, 2550	-	-	-
TOTAL MEDIUM RANGE RADAR (MRR) STAGE										0	0	0	0	5	42.0				
MAINTENANCE MANAGEMENT (MMGT)																			
MMGT	3660	Ensure the corrective maintenance repair process is being conducted.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	3661	Validate SECREP assets.	B,R,M	-	L	-	-	-	1095		0		0		2.0	-	-	-	-
MMGT	3662	Assess maintenance funding requirements.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0	0	0	3	6.0				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	3710	Provide input to the operational plan.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
OMGT	3711	Organize and assign crews for deployment.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
OMGT	3714	Deploy a maintenance capability.	B	-	L	-	-	-	*		0		0		8.0	-	-	-	-
OMGT	3715	Prepare system for embark.	B	-	L	-	-	-	*		0		0		8.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0	0	0	6	19.0				
MARINE AIR CONTROL GROUP (MACG)																			
MACG	3750	Identify TACC Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3751	Identify TAOC and EW/C communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3752	Identify DASC communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3753	Identify UAS Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MACG	3754	Identify LAAD Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3755	Identify MATC communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3756	Draw a Communications Diagram for the agencies within the MACG.	B,R,M	-	L	-	-	-	1095		0		0		2.0	3750, 3751, 3752, 3753, 3754, 3755	-	-	-
TOTAL MARINE AIR CONTROL GROUP (MACG) STAGE										0	0	0	0	5	8.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										0.0	0.0	0.0	0.0	31.0	149.0				
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
LONG RANGE RADAR (LRR)																			
LRR	4520	Install and operate the Radar Environment Simulator (RES)	B	-	L	-	-	-	*		0		0		8.0		-	-	-
TOTAL LONG RANGE RADAR (LRR) STAGE										0	0	0	0	1	8.0				
MEDIUM RANGE RADAR (MRR)																			
MRR	4590	Establish a remote radar link between a C2 node and a MRR system.	B	-	L	-	-	-	*		0		0		8.0	2150, 2151, 2153, 2170, 2174, 2176, 2190, 2191, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
TOTAL MEDIUM RANGE RADAR (MRR) STAGE										0	0	0	0	1	8.0				
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										0	0.0	0	0.0	2	16.0				
TOTAL 2000, 3000, AND 4000 PHASE										0	0.0	0	0.0	205	688.0				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WTI	-	-	-
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*		0		0		1.0	Recommended by SI or WTI	-	-	-
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WTI	-	-	-
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										0	0	0	0	3	5.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
SENIOR INSTRUCTOR (SI)																			
IUT	5100	Understand Aviation T&R program	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5130	Develop a training plan	B,R,M	-	G	-	-	D	365		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8.0				
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	0	7	13.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
QUALIFICATIONS (QUAL)																			
QUAL	6102	Qualification as an Aviation Radar Basic Technician (ARBT).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2195, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008		-	-
QUAL	6103	Qualification as an Aviation Radar Advanced Technician (ARAT).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
TOTAL QUALIFICATIONS STAGE (QUAL)										0	0	0	0	2	1.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CERTIFICATION (CERT)																			
CERT	6200	Certification as a COMPTIA A+ Technician.	B	-	L	-	-	-	*		0		0		4	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281	-	3280, 3281	-
CERT	6201	Certification as a COMPTIA Network+ Technician.	B	-	L	-	-	-	*		0		0		4	2259, 2260, 2261, 2262, 2263, 3282	-	3282	-
CERT	6202	Certification as a COMPTIA Security+ Technician.	B	-	L	-	-	-	*		0		0		4	2264, 2265, 2266, 2267, 2268, 2269, 3283	-	3283	-
TOTAL CERTIFICATION STAGE (CERT)										0	0	0	0	2	12.0				
DESIGNATIONS (DESG)																			
DESG	6303	Designation as an Aviation Radar Chief (ARC).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3660, 3661, 3710, 3711, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																		
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6304	Designation as an Aviation Radar Chief 63 (ARC63).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2354, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3580, 3581, 3582, 3583, 3584, 3660, 3661, 3710, 3711, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																		
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6305	Designation as an Aviation Radar Maintenance Chief (ARMC).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2152, 2153, 2154, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3514, 3515, 3516, 3517, 3518, 3519, 3521, 3660, 3661, 3662, 3710, 3711, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044	-	-	-
DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	-	*		0		0		0.5	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2195, 2230, 2350, 2351, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2497, 2500, 2508, 2509, 2510, 2511, 2512, 3715, 5000, 5010, 5020, 6102, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																		
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	-	*		0		0		1	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
DESG	6340	Designation as a Maintenance Safety NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2235, 2236	-	-	-
DESG	6341	Designation as a Maintenance HAZMAT NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2235, 2236	-	-	-
DESG	6342	Designation as a Maintenance Publications NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2234	-	-	-
DESG	6343	Designation as a Maintenance Tools NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2233	-	-	-
DESG	6344	Designation as a Maintenance Calibrations NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2231	-	-	-
DESG	6345	Designation as a Maintenance Modifications NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2232, 2234	-	-	-
DESG	6346	Designation as a Maintenance Embarkation NCO.	B	-	L	-	-	-	*		0		0		1	2230, 2237	-	-	-

TAOC MOS 5948 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6347	Designation as a Marine Corps Integrated Maintenance Management System (MIMMS) NCO.	B	-	L	-	-	-	*		0		0		1	2159, 2230, 2602	-	-	-
DESG	6348	Designation as a Maintenance Training NCO.	B	-	L	-	-	-	*		0		0		1	2230	-	-	-
DESG	6350	Designation as a Maintenance Quality Control (QC) NCO.	B	-	L	-	-	-	*		0		0		1	2150, 2151, 2153, 2158, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2190, 2191, 2193, 2194, 2195, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2243, 2350, 2351, 2352, 2353, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2606, 2614, 2687, 2688, 2690, 3517, 3521, 3660, 3715, 6103, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
TOTAL DESIGNATION (DESG) STAGE										0	0	0	0	15	13.0				
SCHOOL CODES (SCHL)																			
SCHL	6020	Link 16 Basics Course (JT-100)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6021	Intro to Multi TDL Network (JT-101)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6023	Link 16 Joint Interoperability Course (US-109)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6024	Multi TDL Planner Course (JT-201)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6025	Link 16 Unit Manager (LUM) Course (JT-220)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
SCHL	6079	JRE-GW Operators' Course	B	-	G	-	-	L	*		0		0		0.0	-	-	-	-
TOTAL SCHOOL CODES STAGE (SCHL)										0	0	0	0	0	0.0				

TAOC MOS 5948 T&R SYLLABUS MATRIX																		
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
TOTAL REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS SKILLS PHASE (RCQD)										0	0.0	0	0.0	4	14.0				

5.19 ADDITIONAL MATRICES. None

5.20 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS. None

5.21 AVIATION TRAINING FORMS (ATF). A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

5.22 TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). None

CHAPTER 6

DATA SYSTEMS MAINTENANCE OFFICER (MOS 5970)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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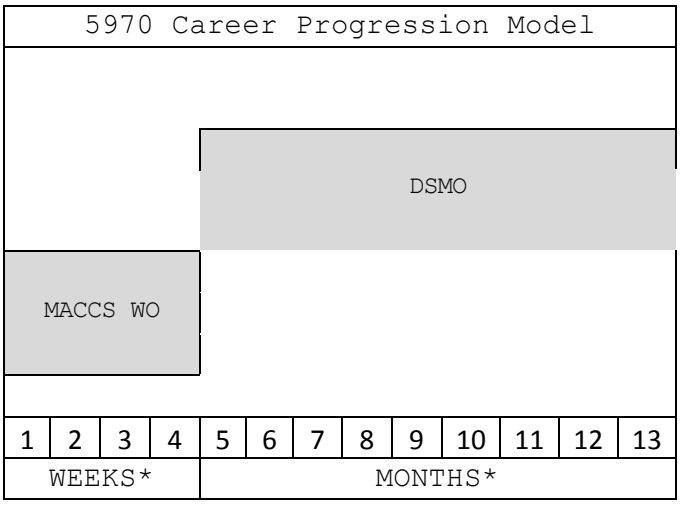
CHAPTER 6

DATA SYSTEMS MAINTENANCE OFFICER (MOS 5970)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

6.0 DATA SYSTEMS MAINTENANCE OFFICER /5970 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

6.1 5970 TRAINING PROGRESSION MODEL. This model represents the recommended average training progression for the Aviation Communications Systems Technician crewmember. Units should use the model as a point of departure to generate individual training plans.



* Months indicated are training months, not calendar months.

6.2 ABBREVIATIONS

TAOC MAINTENANCE MOS 5970	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
COMSEC	COMMUNICATION SECURITY
EQUIP	EQUIPMENT
FAM	FAMILIARIZATION
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT

OMGT	OPERATIONAL MANAGEMENT
MISSION SKILL (3000 Phase)	
EWC	EARLY WARNING AND CONTROL SITE
EQUIP	EQUIPMENT
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT
OMGT	OPERATIONAL MANAGEMENT
TAOC	TACTICAL AIR OPERATIONS CENTER
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)	
ARMO	DATA SYSTEMS MAINTENANCE OFFICER
CAT	COMPTIA A+ TECHNICIAN
CNT	COMPTIA NETWORK+ TECHNICIAN
CST	COMPTIA SAFETY+ TECHNICIAN

6.3 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
MET Phase	This Phase represents community specific unit METs. It combines CMMR crew proficient Marines, Combat Leaders, and designated non-aviation PMOS Marines into combat capable teams.

6.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

6.4.2 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.

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

6.4.4 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.

6.4.5 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.

Note
See Chapter 2 for amplifying information on POI updating.

TAOC MAINTENANCE MOS 5970					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
CORE SKILL (2000 Phase)					
COMSEC	2190R	COMSEC	2190	COMSEC	2190
COMSEC	2191R	COMSEC	2191	COMSEC	2191
COMSEC	2192R	COMSEC	2192	COMSEC	2192
COMSEC	2193R	COMSEC	2193	COMSEC	2193

COMSEC	2194R	COMSEC	2194R		
COMSEC	2195R	COMSEC	2195	COMSEC	2195
COMSEC	2196				
COMSEC	2197				
COMSEC	2198				
COMSEC	2200				
COMSEC	2201				
COMSEC	2202				
COMSEC	2203				
FAM	2219				
FAM	2220				
FAM	2221				
FAM	2222				
FAM	2223				
IAWFAT	2250				
IAWFAT	2251				
IAWFAT	2252				
IAWFAT	2253				
IAWFAT	2254				
IAWFAT	2255				
IAWFAT	2256				
IAWFAT	2257				
IAWFAT	2258				
IAWFNT	2259				
IAWFNT	2260				
IAWFNT	2261				
IAWFNT	2262				
IAWFNT	2263				
IAWFST	2264				
IAWFST	2265				
IAWFST	2266				
IAWFST	2267				
IAWFST	2268				
IAWFST	2269				
EQUIP	2436				
EQUIP	2437				
EQUIP	2438				
MMGT	2615				
MMGT	2616				
MMGT	2617				
MMGT	2618				

MMGT	2619				
MMGT	2620				
MMGT	2621				
MMGT	2622				
MMGT	2623				
MMGT	2624				
MMGT	2650R	MMGT	2650R	MMGT	2650R
OMGT	2695				
OMGT	2696				
OMGT	2697				
OMGT	2698				
OMGT	2699				
OMGT	2700				
OMGT	2701				
MISSION SKILL (3000 Phase)					
STAGE	**CODE**	**STAGE**	**CODE**	**STAGE**	**CODE**
IAWFAT	IAWFAT-3280R	IAWFAT	IAWFAT-3280R	IAWFAT	IAWFAT-3280R
	IAWFAT-3281R		IAWFAT-3281R		IAWFAT-3281R
IAWFNT	IAWFNT-3282R	IAWFNT	IAWFNT-3282R	IAWFNT	IAWFNT-3282R
IAWFST	IAWFST-3283R	IAWFST	IAWFST-3283R	IAWFST	IAWFST-3283R
EQUIP	EQUIP-3454R	EQUIP	EQUIP-3450R	EQUIP	EQUIP-3450R
OMGT	OMGT-3716	OMGT		OMGT	
	OMGT-3718R		OMGT-3718R		OMGT-3718R
MISSION SKILL (3000 Phase)					
STAGE	**CODE**	**STAGE**	**CODE**	**STAGE**	**CODE**
EQUIP	4455	EQUIP		EQUIP	
	4456				
	4457				
	4458				
	4459				
	4460				
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT					

6.5 REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION 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, squadron 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 and NATOPS. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

6.5.1 INSTRUCTOR DESIGNATIONS

TAOC MAINTENANCE MOS 5970 INSTRUCTOR DESIGNATIONS (5000 Phase)	
INSTRUCTOR DESIGNATION	**EVENTS**
BASIC INSTRUCTOR (BI)	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	5000, 5010, 5020, 5100, 5110, 5120, 5130
WEAPONS AND TACTICS INSTRUCTOR (WTI)	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 6000, 6306, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

6.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

TAOC MAINTENANCE MOS 5970 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
COMPTIA A+ Technician (CAT) (CERT-6200)	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281
COMPTIA NETWORK+ Technician (CNT) (CERT-6201)	2259, 2260, 2261, 2262, 2263, 3282
COMPTIA SECURITY+ Technician (CST) (CERT-6202)	2264, 2265, 2266, 2267, 2268, 2269, 3283
DATA SYSTEMS MAINTENANCE OFFICER (DSMO) (DESG-6306)	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

6.6 5910 PROGRAMS OF INSTRUCTION (POI). These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

6.6.1 Basic POI

TAOC MAINTENANCE 5970 BASIC POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
0-4	CORE SKILL INTRODUCTION TRAINING	MCCES
5-10	CORE SKILL TRAINING	TACTICAL SQUADRON
11-15	MISSION SKILL TRAINING	TACTICAL SQUADRON

6.6.2 Refresher POI

TAOC MAINTENANCE MOS 5970 REFRESHER POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
VARIES	CORE SKILL TRAINING	TACTICAL SQUADRON
VARIES	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

NOTE 1: TRAINING DURATIONS VARIES BY POSITION BEING TRAINED. SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

6.7 SYLLABUS NOTES

6.7.1 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 unaided
(N*)	May be conducted during hours of darkness – If conducted during hours of darkness must be unaided
(N)	May be conducted during darkness – If conducted during hours of darkness; may be 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 with Night Vision Devices
Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event.	

6.7.2 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.	

6.7.3 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/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency.

6.7.4 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.)

6.8 ACADEMIC PHASE (0000)

6.8.1 Purpose. **RESERVED FOR FUTURE USE**

6.8.2 General

6.8.2.1 Admin Notes.

6.8.2.2 Prerequisites.

6.8.2.3 Stages.

6.9 CORE SKILL INTRODUCTION PHASE (1000)

6.9.1 Purpose. To provide entry level instruction to develop the basic skills necessary to become a MOS 5970 Data Systems Maintenance Officer. This

training is completed upon graduation from the MACCS Maintenance Warrant Officer Course.

6.9.2 General.

6.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCBul 1200).

6.9.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
6.9.3	AIR SCHOOLS (AIRS) STAGE

6.9.3 AIR SCHOOLS (AIRS) STAGE

6.9.3.1 Purpose. To train Aviation Radar Maintenance Officer and Data System Maintenance Officers in core skill introduction phase training events.

6.9.3.2 General

Prerequisite. MOS 5910 or 5970.

Admin Notes. Hours are not utilized in the header information for each of the blocks of training provided by MCCES. MACCS Warrant Officer Course (CID: M099681), MCCES, located in 29 Palms, CA.

Crew Requirements. None.

AIRS-1001 * B E G

Goal. Draw a Communications Diagram for the agencies within the MACG.

Requirement. Given the references and operational diagrams, draw a communications diagram depicting the information exchange requirements for the following agencies:

1. TACC.
2. TAOC.
3. DASC.
4. MATC.
5. UAS.
6. LAAD.

Performance Standard. Pass an exam. Draw a communications diagram without error. Minor errors corrected by the trainee are acceptable.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-2
2. MCWP 3-25.4

AIRS-1002 * B E G

Goal. Conduct an inspection of maintenance functional areas.

Requirement. Given required references and a current inspection checklist, demonstrate the procedures for inspecting the following functional areas:

1. State the purpose for inspecting the functional areas.
2. Identify and review the references for each functional area and obtain applicable and current inspection lists for all.
3. Conduct an inspection of all areas to familiarize the trainee with the specifics of each.
    a. Calibration Control Program.
    b. Publication Control Program.
    c. Quality Assurance Program.
    d. Preventive Maintenance Program.
    e. Modification Control Program.
    f. Tool Control Program.
    g. MIMMS.
    h. Training Program.
    i. Records.
    j. Safety Program.
    k. Corrosion Prevention and Control CPAC.
4. Explain the inspection procedures.
    a. Schedule the inspection.
    b. Inform functional area manager.
    c. Turn over folders are IAW the references.
    d. Submit an executive summary at the conclusion of the inspection.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4790.2_ MCO P4400.82_

2. MCO P4400.160B
3. MCO P4400.150_
4. MCO 4855.10_ MCO 4790.18_ MCO 4733.1_ MCO 4450.12_ MCO 4400.16_ MCO 4105.2_
5. UM-PLMS W CH 1-2
6. NAVMC DIR 5100.8
7. NAVMC 2761 DTD 1 JUN 08
8. MCO P5215.17_
9. MCO P5102.1_ MCO P5090.2_ MCO 5104.2
10. MCO 5104.1_,
11. MCO 5100.8
12. MCO 5100.29_ MCO 3000.11_ M MCO 3710.6
13. MCO 1553.3 (PRELIM) MCO 3500.14

AIRS-1003 * B E G

Goal. Identify the key elements of Operational Orders (OPORD).

Requirement. Given an OPORD, identify those key elements pertaining to the unit's communications requirements, perform the following:

1. Identify the purpose and major sections of the OPORD.
2. State the purpose and content of the Annex K.
    a. State the purpose and content of the OPTASKLINK.
    b. State the purpose and content of an EKMS Callout.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 5-1

AIRS-1004 * B E G

Goal. Reconcile Marine Corps Integrated Maintenance Management System (MIMMS) Automated Information System (AIS) reports.

Requirement. Given the AIS reports listed in item 1 below:

1. Identify the purpose of:
    a. Daily Process Report (DPR).
    b. Logistics Maintenance 2 (LM2).
    c. Daily Transaction List (DTL).
    d. Exceptions Report.
    e. TAM report.

f. LM2 report.
g. Loaded unit balance file (LUBF).
h. Due and status file (DASF).
i. Equipment Record Order (ERO) NAVMC 10425.
j. Equipment Record Order Supply Listing (EROSL) NAVMC 10925.
k. Inspection repair tag (NAVMC 1018).
l. Layette bin.

2. Identify the type of information contained in each of the forms listed above.
3. Identify the status of a parts requisition.
4. Identify proper use of UMMIPS priorities.
5. State item requisition priorities.
6. State any errors found within each of the forms listed above.
7. Reconcile all items listed above and list all errors found in each form.
8. Explain how to maintain a layette bin.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. MCBUL 3000
3. NAVMC 10425
4. NAVMC 10925
5. UM 4790-5
6. MCO P4400.16
7. TM 4700.15/1_

AIRS-1005 * B E G

Goal. Identify the services provided by Marine Wing Communications Squadron.

Requirement. Given the references, describe the following services:

1. Single Channel Radio Communications.
2. Wide Area Networks (WAN) / Local Area Networks (LAN) Communications.
3. Electronic Message Communications.
4. Telephone Communications.
5. Digital Backbone.
6. Communications Control.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-40.3 MAGTF communications system
2. MCWP 3-25 Control of Aircraft and Missiles

AIRS-1006 * B E G

Goal. Identify Information Assurance requirements for tactical employment of information systems.

Requirement. Given the reference, perform the following:

1. Identify the Accreditation package requirements.
2. Explain the purpose of the Authority to Operate (ATO).
3. Explain configuration management and its relationship to IA.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD Directive 5200.28
2. DOD Directive 5200.40
3. MCO P5239.1B

AIRS-1007 * B E G

Goal. Identify TAOC and EW/C communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1008 * B E G

Goal. Identify TACC Communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1009 * B E G

Goal. Identify DASC communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1010 * B E G

Goal. Analyze the TO/E.

Requirement. Given a TO/E, explain the following:

1. Mission statement.
2. Billet Organization.
3. Equipment Organization.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. URL https://tfsms.mccdc.usmc.mil
2. MCO 5311.1_

AIRS-1011 * B E G

Goal. Identify spectrum management procedures.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Submit frequency requirements.
    a. Identify submission timelines.
    b. Identify data elements (-Freq, Location, Power, Dates).
2. Submit Satellite Access requirements.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 3-40_
2. MCO 2400.2

AIRS-1012 * B E G

Goal. Identify the embarkation requirements for the major end items of the TACC, DASC, TAOC, and EW/C.

Requirement. Given the reference, list:

1. Hazardous Material requirements.
2. Security requirements.
3. Material Handling Equipment requirements.
4. Equipment specific transportation requirements.
5. Identify MAGTF Deployment Support System II (MDSS II) elements.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4030.33
2. MCRP 4-11

AIRS-1013 * B E G

Goal. Identify LAAD Communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1014 * B E G

Goal. Identify MATC communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1015 * B E G

Goal. Identify UAS Communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.

2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

AIRS-1016 * B E G

Goal. Identify the Marine Corps Urgent Needs Process (MCUNP).

Requirement. Given the references and an equipment requirement, identify the process for submission and complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Describe the process of completing an Urgent UNS form.
5. Describe the process of completing a deliberate UNS form.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. NAVMC 11475
2. MCO 3900.17

AIRS-1017 * B E G

Goal. Validate induction of new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and

validate the induction of new equipment into service.
1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
    a. Ensure record jacket was created with proper documentation IAW the reference.
    b. Ensure initial SL-3 was performed.
    c. Ensure an initial LTI was performed.
    d. Ensure induction of new equipment into calibration cycle a required.
    e. Ensure equipment is accounted for within EKMS as required.
    f. Ensure the equipment and proper documentation was sent to Supply.
    g. Ensure supply received the proper documentation to add equipment to the CMR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Supply Instructions (SI)
2. ULSS
3. Equipment SL-3
4. Initial Issuing Provision Inventories
5. MCO 5311.1_
6. MCO P4400.82
7. UM 4400.124

AIRS-1018 * B E G

Goal. Demonstrate the process to phase out obsolete equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, demonstrate and validate phase out of obsolete equipment, to include at minimum:

1. Review the POP and applicable references.
2. State the purpose of:
    a. Recoverable Items Report (WIR).
    b. WIR Online Process Handler program (WOLPH).
    c. Material Returns (MTR) program.
3. Validate obsolete equipment was disposed of properly by ensuring the following:
    a. Ensure a final LTI was performed.
    b. Ensure a final SL-3 was performed.
    c. Ensure a Recoverable Items Report (WIR) - request for

disposition - was submitted using the WOLPH.
d. Ensure equipment was disposed of IAW instructions in Phase out plan.
e. Ensure the record jackets were completed and accompanied equipment.
f. Ensure the equipment and proper documentation was sent to Supply for turn-in.
g. Ensure supply received the proper documentation to remove equipment from the CMR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Supply Instructions (SI)
2. Equipment SL-3
3. Initial Issuing Provision Inventories
4. MCO 5311.1C
5. MCO P4400.82
6. UM 4400.124

AIRS-1019 * B E G

Goal. Identify maintenance funding requirements.

Requirement. Given a scenario, equipment maintenance history and anticipated maintenance shortfalls, propose funding allocations for maintenance activities to create a maintenance budget.
1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirement and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.
4. Submit a budget request to the instructor for validation.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. MCO P7100.8_

AIRS-1020 * B E G

Goal. Identify the SECREP management process.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
6. Identify Low Density SECREP assets.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4790.2_
2. MCO P4400.150_
3. FEDLOG
4. MCO P4400.82F,
5. MCO P4400.151B
(ADD REFTS)

AIRS-1021 * B E G

Goal. Identify DOD Information Assurance Workforce structure.

Requirement. Given the reference, identify:

1. The IA categories.
2. Requirements for IA categories.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570.01-M

AIRS-1022 * B E G

Goal. Access published information within TFSMS.

Requirement. Given access to TFSMS, complete the following:

1. Access unit TO/E.
2. Access standard reports.
3. Create custom reports.
4. Manage custom reports.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1.URL https://tfsms.mccdc.usmc.mil
2.MCO 5311.1_

AIRS-1023 * B E G

Goal. Describe readiness ratings within DRRS-MC.

Requirement. IAW the reference, describe the following:

1. Describe P-rating.
2. Describe S-rating.
3. Describe R-rating.
4. Describe T-rating.
5. Describe C-level assessment.
6. Identify how the Commander will assess their METs.
    a. Yes.
    b. Qualified Yes.
    c. No.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. NAVMC 3500.14C
2. MCO 3000.13 MARINE CORPS READINESS REPORTING STANDARD OPERATING PROCEDURES (SOP)

AIRS-1024 * B E G

Goal. Explain the product quality deficiency report (PQDR).

Requirement. Given the reference, an item of equipment or a scenario, identify the following:

1. Purpose of the PQDR.
2. Criteria under which a PQDR should be submitted.
3. Information required for submitting a PQDR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. UM-4400-124
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5_, Product Quality Deficiency Report Program)
5. http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf

AIRS-1025 * B E G

Goal. Identify major funding lines.

Requirement. Given the references, identify major funding lines:

1. Operation & Maintenance (O&M) Funds.
    a. Planning Estimate (PE).

(1) Direct Support Stock Center (DSSC).
(2) Temporary Additional Duty.
(3) Fuel.
(4) Government-Wide Commercial Purchase Card Program (GCPC).

b. Requisition Authority (RA) – Supported Activities Supply System (SASSY).

2. Research, Development, Test & Evaluation (RDT&E).
3. Procurement Marine Corps (PMC).
4. Military Construction (MILCON).
5. Blue Dollars (2F Funds).

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. MCO P7100.8_

AIRS-1026 * B E G

Goal. State the duties of the responsible Officer.

Requirement. IAW the reference and given a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Describe the process of the CMR inventory.
   a. Ensure SL-3 accountability for assumption and relief.
   b. Determine UURI requirements.
   c. Ensure equipment have record jackets.
   d. Identify discrepancies, if any.
4. State the purpose for the letter of RFI.
5. State the purpose of the delegation of authority.
6. State the purpose of the Responsible Individual (RI).
7. State the purpose for maintaining source documents.

Performance Standard. Pass an Exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150E W/ERRATUM CH 1-2
2. CMR
3. MMO SOP

6.10 CORE SKILL TRAINING (2000)

6.10.1 Purpose. To develop core skill proficiency for 5910 personnel to be able to perform duties while assigned as the DMO.

6.10.2 General.

6.10.2.1 Prerequisite.

6.10.2.2 Admin Notes.

(1) Training in this phase does not preclude simultaneous training in the mission skill and core plus phases provided applicable prerequisites have been met.

(2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

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

PAR NO.	STAGE NAME
6.10.3	COMMUNICATION SECURITY (COMSEC)
6.10.4	FAMILIARIZATION (FAM)
6.10.5	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
6.10.6	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
6.10.7	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
6.10.8	EQUIPMENT (EQUIP)
6.10.9	MAINTENANCE MANAGEMENT (MMGT)
6.10.10	OPERATIONAL MANAGEMENT (OMGT)

6.10.3 COMMUNICATION SECURITY (COMSEC) STAGE

6.10.3.1 Purpose. To teach the trainee safe handling and storage of classified material, use of common fill devices, crew changeover procedures, and provide familiarization with the EKMS COMSEC callout. Additionally, trainee learns to identify and load CCI devices.

6.10.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

COMSEC-2190 2.0 365 B, R, M L

Goal. Describe proper handling and storage of classified materials.

Requirement. Perform the following:

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 (CCIs).

Performance Standard. With the aid of reference, state the above requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5510.18_
2. EKMS-1_
3. SECNAVINST 5510.36
4. UNIT SOP

COMSEC-2191 2.0 365 B, R, M L

Goal. State the physical security requirements for classified areas.

Requirement. Given a tactical scenario and references, identify the following:

1. Purpose of a guard schedule.
2. Purpose of access control.
3. Purpose of the entry control point.
4. Perimeter barrier requirements.

Performance Standard. With the aid of reference, pass an exam without error.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

COMSEC-2192 2.0 365 B, R, M L

Goal. Create a classified area physical security diagram.

Requirement. Given a tactical scenario and references, create a diagram that includes the following:

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.

Performance Standard. With the aid of reference, draw a diagram depicting the information listed in the requirement without error; instructor will validate that the diagram supports the scenario. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2191

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

COMSEC-2193 2.0 365 B, R, M L

Goal. Conduct classified material inventory.

Requirement. During a crew change over, perform the following:

1. Conduct classified material inventory.
2. Conduct EKMS inventory.
3. Destroy superseded key materials.

Performance Standard. With the aid of reference, conduct the requirements without discrepancy.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1A
2. 5530

COMSEC-2194 2.0 * B, R L

Goal. Extract key material information from EKMS COMSEC callout.

Requirement. Given an EKMS COMSEC callout and references, perform the following:

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

Performance Standard. With the aid of reference, state the purpose and identify the key information on the callout without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. MCWP 3-40.3

COMSEC-2195 2.0 365 B, R, M L

Goal. Utilize a Common Fill Device.

Requirement. Given (2) loaded common fill devices and a zeroized cryptographic device, perform the following:

1. Describe the purpose of common fill device.
2. Define the common fill device loading procedure.
3. Configure the common fill device.
4. Identify common fill device indicators and messages.
5. Transfer key material to Controlled Cryptographic Item (CCI) equipment.
6. Transfer cryptographic information from common fill device to common fill device.
7. Destroy superseded keying material within the cryptographic fill device.

Performance Standard. With the aid of reference, load keying material into appropriate COMSEC equipment using a fill device and destroy superseded keying material without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_

COMSEC-2196 2.0 * B L

Goal. Ensure CMCC handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify classified material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify classified material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. SECNAV 5510.36_
2. MCO 5510.18_
3. UNIT SOP
4. EKMS-1_

COMSEC-2197 2.0 * B L

Goal. Ensure EKMS material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify EKMS material is stored IAW the reference.
2. Verify proper destruction of material IAW the reference.
3. Verify EKMS material is transported IAW the reference.

Performance Standard. With the aid of reference, validate EKMS material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. UNIT SOP

COMSEC-2198 1.0 * B L

Goal. Ensure CCI material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify CCI material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify CCI material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1_
2. UNIT SOP

COMSEC-2200 4.0 * B L

Goal. Validate physical security of classified areas.

Requirement. Given a scenario and references, validate physical security requirements of classified areas. Validate the following:

1. Guard schedule.
2. Entry control point.
3. Access Roster.
4. Perimeter.
5. Physical security diagram.

Performance Standard. With the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2191, 2192

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P5530.14
2. FM 5-34_

COMSEC-2201 4.0 * B L

Goal. Verify the proper use of a Common Fill Device.

Requirement. Given (2) loaded common fill devices and a zeroized cryptographic device:

1. Describe the purpose of common fill device.
2. Describe a common fill device loading procedure.
3. Verify the configuration the common fill device.
4. Identify common fill device indicators and messages.
5. Verify the transfer of key material to Controlled Cryptographic Item (CCI) equipment.

Performance Standard. With the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2190, 2195

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. EKMS-1A
2. SKL
3. Applicable TM for CCI

COMSEC-2202 4.0 * B L

Goal. Identify organic Cryptographic Controlled Item (CCI) devices organic to the section.

Requirement. Perform the Following:

1. Inventory all CCI on the SF-153.
2. State the purpose of each piece of equipment.

Performance Standard. Without the aid of references, physically identify the above items and describe the use for each without error. This must be completed with 100% accuracy.

Instructor. BI, SI

Prerequisite. 2190, 2193

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 2000-OD/2C Characteristics of US Marine Corps C&E Equipment
2. Fill device user's manual

COMSEC-2203 4.0 * B L

Goal. Identify equipment classification requirements.

Requirement. Given the references, identify the classification level of the following:

1. Hardware.
2. Software.
3. Technical manuals.

Performance Standard. Without the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit T/E, Unit SOP

6.10.4 FAMILIARIZATION (FAM) STAGE

6.10.4.1 Purpose. To familiarize the trainee on non-MOS equipment.

6.10.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

FAM-2219 1.0 * B L

Goal. Familiarization with LRR equipment.

Requirement. Given the reference:

1. Describe the purpose of the LRR.
2. Describe the major components of the LRR.
3. Describe the characteristics of the LRR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

FAM-2220 1.0 * B L

Goal. Familiarization with MRR equipment.

Requirement. Given the reference:

1. Describe the purpose of the MRR.
2. Describe the major components of the MRR.
3. Describe the characteristics of the MRR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/1-2 Radar Set AN/TPS-63 System Technical Description

FAM-2221 1.0 * B L

Goal. Describe the Identification Friend or Foe (IFF) MK XII interrogator system.

Requirement. Given the reference:

1. Describe the purpose of the MK VII IFF system.
2. Describe the major components of the AN/UPX-37 Interrogator system.
3. Describe the characteristics of the AN/UPX-37 Interrogator System.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. UM 2005

FAM-2222 1.0 * B L

Goal. Describe TACLAN.

Requirement. Given the references, perform the following:

1. Describe the purpose of the KG-175 TACLAN.
2. State the purpose of the KG-175 TACLAN.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

FAM-2223 1.0 * B L

Goal. Identify the major components of the Composite Tracking Network (CTN).

Requirement. Given the references, perform the following:

1. Describe the characteristics of the Cooperative Engagement Capability.
2. Describe the characteristics of the antenna.
3. Describe the characteristics of the AN/USG-4A.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Operational Tasking Cooperative Engagement Capability (OPTASKCEC)
2. TM 11406A-OR/2 Command System Tactical AN/MSQ-143
3. TM 11406A-ORG Command System Tactical AN/MSQ-143
4. TM 11406A-OI AN/USG-4A Composite Tracking Network
5. TM 08611B/10987A/11406A-OR/1 Telescopic Mast Family
6. TM 08611B/10987A/11406A-OR/2 Erection Instructions CSA Fanlite
7. TM 08611B/10987A/11406A-OR/3 Appendix G CSA Fanlite

6.10.5 INFORMATION ASSURANCE WORK FORCE A+ (IAWFAT) STAGE

6.10.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-2250 4.0 * B E L

Goal. Explain PC hardware.

Requirement. Without the aid of references, perform the following:

1. Explain and apply BIOS settings.
2. Differentiate between motherboard components, their purposes, and properties.
3. Compare RAM types and features.
4. Explain the installation and configuration of expansion cards.
5. Explain installation and configuration of storage devices and appropriate media.
6. Differentiate among various CPU types and features and select the appropriate cooling method.
7. Compare various connection interfaces and explain their purpose.
8. Identify the appropriate power supply based on a given scenario.
9. Evaluate and select appropriate components for a custom configuration, to meet customer specifications or needs.
10. Given a scenario, evaluate types and features of display devices.
11. Identify connector types and associated cables.
12. Explain the installation and configuration of various peripheral devices.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2251 4.0 * B E L

Goal. Explain networking concepts.

Requirement. Without the aid of references, perform the following:

1. Identify types of network cables and connectors.
2. Categorize characteristics of connectors and cabling.
3. Explain properties and characteristics of TCP/IP.
4. Explain common TCP and UDP ports, protocols, and their purpose.
5. Compare wireless networking standards and encryption types.
6. Install, configure, and deploy a SOHO wireless/wired router using appropriate settings. 7. Compare Internet connection types and features.
8. Identify various types of networks.
9. Compare network devices their functions and features.
10. Given a scenario, use appropriate networking tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2252 4.0 * B E L

Goal. Explain laptop features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Install and configure laptop hardware and components.
2. Compare the components within the display of a laptop.
3. Explain the differences between the various printer types and summarize the associated imaging process.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2253 4.0 * B E L

Goal. Explain printer features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Explain the differences between the various printer types and summarize the associated imaging process.
2. Given a scenario, install, and configure printers.
3. Given a scenario, perform printer maintenance.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2254 4.0 * B E L

Goal. Explain operational procedures.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, use appropriate safety procedures.
2. Explain environmental impacts and the purpose of environmental controls.
3. Given a scenario, demonstrate proper communication and professionalism.

4. Explain the fundamentals of dealing with prohibited content/activity.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2255 4.0 * B E L

Goal. Explain operating systems.

Requirement. Without the aid of references, perform the following:

1. Compare the features and requirements of various Microsoft Operating Systems.
2. Given a scenario, install, and configure the operating system using the most appropriate method.
3. Given a scenario, use appropriate command line tools.
4. Given a scenario, use appropriate operating system features and tools.
5. Given a scenario, use Control Panel utilities (the items are organized by "classic view/large icons" in Windows).
6. Setup and configure Windows networking on a client/desktop.
7. Perform preventive maintenance procedures using appropriate tools.
8. Explain the differences among basic OS security settings.
9. Explain the basics of client-side virtualization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2256 4.0 * B E L

Goal. Explain security.

Requirement. Without the aid of references, perform the following:

1. Apply and use common prevention methods.
2. Explain the implementation of security best practices to secure a workstation.
3. Given a scenario, use the appropriate data destruction/disposal method.
4. Given a scenario, secure a SOHO wireless network.
5. Given a scenario, secure a SOHO wired network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2257 4.0 * B E L

Goal. Explain Mobile Devices.

Requirement. Without the aid of references, perform the following:

1. Explain the basic features of mobile operating systems.
2. Establish basic network connectivity and configure email.
3. Compare methods for securing mobile devices.
4. Compare hardware differences in regards to tablets and laptops.
5. Execute and configure mobile device synchronization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2258 4.0 * B E L

Goal. Explain Troubleshooting.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, explain the troubleshooting theory.
2. Given a scenario, troubleshoot common problems related to motherboards, RAM, CPU and power with appropriate tools.
3. Given a scenario, troubleshoot hard drives and RAID arrays with appropriate tools.
4. Given a scenario, troubleshoot common video and display issues.
5. Given a scenario, troubleshoot wired and wireless networks with appropriate tools.
6. Given a scenario, troubleshoot operating system problems with appropriate tools.
7. Given a scenario, troubleshoot common security issues with appropriate tools and best practices.
8. Given a scenario, troubleshoot, and repair common laptop issues while adhering to the appropriate procedures.
9. Given a scenario, troubleshoot printers with appropriate tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.10.6 INFORMATION ASSURANCE WORK FORCE NETWORK+ (IAWFNT) STAGE

6.10.6.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.10.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-2259 4.0 * B E L

Goal. Explain Networking Concepts.

Requirement. Without the aid of references, perform the following:

1. Compare the layers of the OSI and TCP/IP models.
2. Classify how applications, devices, and protocols relate to the OSI model layers.
3. Explain the purpose and properties of IP addressing.
4. Explain the purpose and properties of routing and switching.
5. Identify common TCP and UDP default ports.
6. Explain the function of common networking protocols.
7. Summarize DNS concepts and its components.
8. Given a scenario, implement the following network troubleshooting methodology.
9. Identify virtual network components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2260 4.0 * B E L

Goal. Explain Network Installation and Configuration.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, install and configure routers and switches.
2. Given a scenario, install and configure a wireless network.
3. Explain the purpose and properties of DHCP.
4. Given a scenario, troubleshoot common wireless problems.
5. Given a scenario, troubleshoot common router and switch problems.
6. Given a set of requirements, plan and implement a basic SOHO network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2261 4.0 * B E L

Goal. Explain Network Media and Topologies.

Requirement. Without the aid of references, perform the following:

1. Categorize standard media types and associated properties.
2. Categorize standard connector types based on network media.
3. Compare different wireless standards.
4. Categorize WAN technology types and properties.
5. Describe different network topologies.
6. Given a scenario, troubleshoot common physical connectivity problems.
7. Compare different LAN technologies.
8. Identify components of wiring distribution.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2262 4.0 * B E L

Goal. Explain Network Management.

Requirement. Without the aid of references, perform the following:

1. Explain the purpose and features of various network appliances.
2. Given a scenario, use appropriate hardware tools to troubleshoot connectivity issues.
3. Given a scenario, use appropriate software tools to troubleshoot connectivity issues.
4. Given a scenario, use the appropriate network monitoring resource to analyze traffic.

5. Explain the purpose of configuration management documentation.
6. Explain different methods and rationales for network performance optimization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2263 4.0 * B E L

Goal. Explain Network Security.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, implement appropriate wireless security measures.
2. Explain the methods of network access security.
3. Explain methods of user authentication.
4. Explain common threats, vulnerabilities, and mitigation techniques.
5. Given a scenario, install and configure a basic firewall.
6. Categorize different types of network security appliances and methods.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.10.7 INFORMATION ASSURANCE WORK FORCE SECURITY+ (IAWFST) STAGE

6.10.7.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.10.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-2264 4.0 * B E L

Goal. Explain Network Security.

Requirement. Without the aid of reference, perform the following:

1. Explain the security function and purpose of network devices and technologies.
2. Describe the implementation of secure network administration principles.
3. Describe between network design elements and components.
4. Describe the use common protocols.
5. Identify commonly used default network ports.
6. Describe the implementation of a wireless network in a secure manner.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2265 4.0 * B E L

Goal. Explain Operational Security.

Requirement. Without the aid of reference, perform the following:

1. Explain risk related concepts.
2. Explain appropriate risk mitigation strategies.
3. Explain appropriate incident response procedures.
4. Explain the importance of security related awareness and training.
5. Compare aspects of business continuity.
6. Explain the impact and proper use of environmental controls.
7. Execute disaster recovery plans and procedures.
8. Explain the concepts of confidentiality, integrity and availability

(CIA).

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2266 4.0 * B E L

Goal. Explain threats and vulnerabilities.

Requirement. Without the aid of reference, perform the following:

1. Explain the types of malware.
2. Explain types of attacks.
3. Explain types of social engineering attacks.
4. Explain types of wireless attacks.
5. Explain types of application attacks.
6. Explain types of mitigation and deterrent techniques.
7. Explain assessment tools and techniques to discover security threats and vulnerabilities.
8. Within the realm of vulnerability assessments, explain the proper use of penetration testing versus vulnerability scanning.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2267 4.0 * B E L

Goal. Explain cryptography.

Requirement. Without the aid of reference, perform the following:

1. Summarize general cryptography concepts.
2. Explain the appropriate cryptographic tools and products.
3. Explain the core concepts of public key infrastructure.
4. Explain the Implementation of PKI, certificate management and associated components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2268 4.0 * B E L

Goal. Explain access control and identity management.

Requirement. Without the aid of reference, perform the following:

1. Explain the function and purpose of authentication services.
2. Explain the fundamental concepts and best practices related to authentication, authorization and access control.
3. Explain the Implementation of appropriate security controls when performing account management.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2269 4.0 * B E L

Goal. Explain application, data and host security.

Requirement. Without the aid of reference, perform the following:

1. Explain the importance of application security.
2. Explain the appropriate procedures to establish host security.
3. Explain the importance of data security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.10.8 EQUIPMENT (EQUIP) STAGE

6.10.8.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.10.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-2436 4.0 * B L

Goal. Review system troubleshooting on the TDS equipment within the TAOC.

Requirement. Given the references, a core capable crew, appropriate tools, TMDE, and a command and control system; complete the follow for each systems below:

1. Monitor the operational checks and alignments of each system as required.
2. Identify and review symptoms of a fault within each system.
3. Review the fault to the line replaceable unit within each system.
-MTAOM
-CTN
-CAC2S

Performance Standard. Perform the requirement to a proficient level

(correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10498B-OD TAOM Operations Maintenance Manual
2. Applicable manufacturer's manuals (UPS, Ethernet Switch, Themis)
3. TM 10446B-OI SAAWF Operations and Maintenance Instructions
4. TM 10200A-OI/1 ADCP Maintenance Manual
5. TO 31S5-2TYQ123-8-1 JRE Operations and Maintenance Instructions

EQUIP-2437 4.0 * B L

Goal. Verify system configuration of tactical data systems within the TAOC.

Requirement. Given the references, an emplaced system, and a core capable crew, verify equipment configuration and direct operational assessment within the system to include the following:

1. Operations of the MTAOM.
    a. Voice Communications Equipment.
    b. Digital Communications Equipment.
    c. Data Processing Equipment.
    d. Operator Interface Equipment.
2. Operation of the CAC2S
3. Operations of the CTN.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10498B-OD TAOM Operations Maintenance Manual

2. Applicable manufacturer's manuals (UPS, Ethernet Switch, Themis)
3. TM 10446B-OI SAAWF Operations and Maintenance Instructions
4. TM 10200A-OI/1 ADCP Maintenance Manual
5. TM 11399A-OI/1 JRE Operations and Maintenance Instructions

EQUIP-2438 4.0 * B L

Goal. Plan for deployment of Tactical Data Systems.

Requirement. Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O list.
4. Coordinate proper heavy lifting support.
5. Establish an accurate bill of materials list.
6. Coordinate COMSEC support.
7. Identify communication requirement.
9. Establish an accurate SECREP list required for deployment.
10. Identify a key contacts list for intra squadron section.
11. Identify and request fuel requirements.
12. Identify and request power requirements.
13. Coordinate with MMO for proper procurement procedures during deployment.
14. Identify and request environmental condition unit requirements.
15. Identify and request appropriate transportation requirements.
16. Identify facility requirements.
17. Obtain letter of instruction for deployment.
18. Inspect gear required on the gear list for individual Marines for deployment.
19. Familiarize the Marines with emergency action plan for deployment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Group/Squadron/Shop Standard Operating Procedures

6.10.9 MAINTENANCE MANAGEMENT (MMGT) STAGE

6.10.9.1 Purpose. To train the trainee on the basic skills necessary to perform as a member of a maintenance shop.

6.10.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-2615 6.0 * B L

Goal. Identify the requirements for a Pre-extended Bin (PEB).

Requirement. Given the references, end item or scenario, identify and provide the following:

1. Describe the purpose of the PEB.
2. Identify PEB constraints; cost and consumption.
3. Describe proper accountability and usage of PEB material.
4. Provide an authorization request and inventory of PEB material.
5. Describe actions required within Global Combat Support System-Marine Corps (GCSS-MC).

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2C W/CH. 1-2
2. MCO P4400.150E W/ERRATUM CH 1-2
3. MCBUL 3000 (Current FY)
4. Planner 101 course
5. https://gcssmc-sso.csd.disa.mil/gcssmc_portal/training.html

MMGT-2616 6.0 * B L

Goal. Ensure the corrective maintenance repair process is being conducted.

Requirement. Ensure the timely performance of all corrective maintenance actions per the references.
1. Verify the induction process:
    a. Confirm SL-3 accountability.
    b. Ensure visual inspection occurs.

c. Verify record jacket.
d. Verify proper organizational PM.
2. Ensure correctness of Service Request (SR) and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered and correctness of SR.
6. Ensure faulty item is repaired to code A status.
7. Ensure safety measures are adhered to during repair process.
8. Conduct quality control procedures:
a. Review quality control procedures.
b. Verify quality control inspectors based on individual qualifications on equipment are assigned in writing.
9. Verification of MI and TI.
10. Verify proper closeout of SR.
11. Ensure equipment record jacket is updated.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2C
2. TM-4700-15/1_
3. UM-4790.5
4. MCO P4400.16G
5. MCBUL 3000
6. Associated Equipment TM

MMGT-2617 6.0 * B L

Goal. Identify Critical Low Density SECREP assets and required on-hand quantities.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review them and provide recommendations for organizational Critical Low Density SECREP assets and required on-hand quantities. Write a "justify non-demand supported secrep allowances" letter as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 4790.2C w/ch.1-2
2. MCO P4400.150E W/ERRATUM CH 1-2
3. FEDLOG
4. Reference is MCO P440.151B

MMGT-2618 6.0 * B L

Goal. Develop a maintenance section budget.

Requirement. Utilizing equipment maintenance history and forecasting anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1. Provide maintenance funding request based on current requirements while considering prior year utilization history.
    a. Preventive Maintenance.
    b. Corrective Maintenance.
2. Draft an anticipated maintenance funding request based on the unit's TEEP to support.
    a. Personnel travel requirements.
    b. Administrative support requirements (SERVMART).
3. Submit funding request with justification.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150_
2. MCO P7100.8_

MMGT-2619 6.0 * B L

Goal. State the process to submit a Table of organization and

equipment (TO&E) Change Request (TOECR).

Requirement. Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Validate the requirement for change.
3. Complete TOECR form, NAVMC 11355.
4. Identify compensation for T/O changes when possible.
5. Provide an explanation/reason for change request on the change request form in plain English.
6. Provide a copy of the NAVMC 11355 to the instructor for review and validation.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable. Instructor will ensure the NAVMC 11355 supports the scenario requirement.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO 5311.1_
2. Unit TO&E

MMGT-2620 6.0 * B L

Goal. Conduct a Consolidated Memorandum Receipt (CMR) Review.

Requirement. Given the references and a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Conduct a CMR inventory.
    a. Ensure SL-3 accountability for assumption and relief.
    b. Determine Using Unit Responsibility (UURI)/Government Furnished Equipment (GFE) requirements.
    c. Ensure equipment have record jackets.
    d. Maintain equipment receipt/transfer documents.
    e. Identify discrepancies, if any.
4. Write and submit a Request for Investigation IAW MCO 4400.150.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150E W/ERRATUM CH 1-2
2. CMR
3. MMO SOP

MMGT-2621 4.0 * B L

Goal. Draft a Using Unit Responsibility Items (UURI) authorization letter.

Requirement. Given the reference, complete the following:

1. Identify required UURI.
2. Draft a UURI authorization letter.

Performance Standard. Submit to the evaluator the correctly formatted UURI authorization letter that identifies required quantities of all UURI IAW the reference without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. Applicable end item SL-3
3. SecNavInst 5216.2_
4. MCO P4400.150_
5. Unit MMSOP

MMGT-2622 4.0 * B L

Goal. Explain Recoverable Items Report (WIR) procedures.

Requirement. Given the reference and a scenario, conduct the following:

1. State the purpose of the WIR.
2. State the criteria under which an item should be processed for WIR.
3. State the information required to submit a WIR request.
4. State the submission procedures for a WIR request.
5. State the method to follow up on WIR submissions.
    a. WIR on-line Process Handler.
    b. Weekly Supply reconciliation.
6. Explain disposition instruction.

Performance Standard. Correctly state the items in the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. UM-4400
3. MCOP4400.82F

MMGT-2623 4.0 * B L

Goal. Submit a maintenance cycle time extension letter.

Requirement. Given the reference, equipment, and applicable equipment records conduct the following:

1. Identify maintenance cycle time requirement.
2. Draft a maintenance cycle time extension letter.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor shall ensure the justification meets the requirements.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. Applicable end item technical manual

3. NAVMC 5216.2_
4. Unit MMSOP

MMGT-2624 4.0 * B L

Goal. Submit a Product Quality Deficiency Report (PQDR).

Requirement. Given the reference, equipment or a scenario:

1. State the criteria under which the PQDR should be submitted.
2. Complete the PQDR.
3. Explain the squadron's internal process for submitting a PQDR.
4. Identify the procedure to follow up with the PQDR.
5. Discuss external process flow of the PQDR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. UM-4400-124
3. Unit MMSOP
4. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
5. SECNAVINST 4855.5_, Product Quality Deficiency Report Program)
6. http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf
7. https://www.pdrep.csd.disa.mil/pdrep_files/training/online_train.htm

MMGT-2650 4.0 1095 B, R, M L

Goal. Assess maintenance shop performance.

Requirement. Given the references, perform the following:

1. Determine key performance indicators.
2. Determine functional areas to be inspected.
3. Develop an inspection plan.
4. Assign personnel to conduct inspections.
5. Review results.
6. Assess strengths and weaknesses.
7. Develop/implement a corrective plan.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4790.2_
2. CGI checklist
3. FSMAO inspection checklist
4. MMO SOP

6.10.10 OPERATIONAL MANAGEMENT (OMGT) STAGE

6.10.10.1 Purpose. To provide the trainee basic skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

6.10.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-2695 6.0 * B L

Goal. Design a site layout.

Requirement. Given a scenario, the references, a TO/E and mission statement, determine an appropriate site for system emplacement by designing a site layout by performing the following:

1. Conduct a site survey.
2. Determine a primary and secondary site location.
3. Analyze terrain to:
    a. Determine tactical orientation and equipment emplacement.
    b. Determine obstructions and hazards.
    c. Determine communications requirements and obstacles.
    d. Determine operational footprint.
    e. Determine power and fuel requirements.
    f. Determine the placement for vehicles.
    g. Determine the placement for antennas.
    h. Determine proper grounding system.

i. Determine protection from the elements.
j. Determine Terrain Masking.

4. Utilize planning tools (EMPRO, FalconView, AMP, SPEED, etc.) to determine terrain masking and line of sight connectivity.
5. Design a site layout.
a. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Fuels (HERF) regulations.
b. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Ordnance (HERO) regulations.
c. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Personnel (HERP) regulations.
d. Ensure emitters are emplaced to support working area.
6. Submit the site layout to the instructor for validation.

Performance Standard. The trainee will provide the instructor with reasoning for the following (instructors are encouraged to discuss site survey in depth with the trainee)

1. Selection of the primary and secondary site.
2. Site limitations for each site (if any).
3. How each site will support mission requirements?
4. Determine a security plan.
5. Draw the site layout to support the scenario.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCDP 6
2. MCWP 3-25.3
3. MCWP 3-25.4
4. MCWP 3-25.5
5. MCWP 3-25.6
6. MCWP 3-25.7
7. MCWP 3-25.8
8. MCWP 3-25.10
9. MCWP 5-1
10. IEEE C95.1-1991
11. NAVSHIPS 0967-317-7010
12. TM 9406-15
13. DODINST 6055.11
14. BUMED 6470.23
15. OPNAVINST 5100.23 Series
16. NAVSEA OP 3565/NAVAIR 16-1-529/NAVELEX 0967-LP-624-6010/Volume II
17. Navy Safety Center
18. MCO 5100.29_
19. MCO 5104.2
20. MCO 5104.3_

OMGT-2696 6.0 * B L

Goal. Prepare and present a command level brief for deployment.

Requirement. Given an OPORD and commander's intent, perform the following:

1. Prepare a brief that contains at minimum the following:
    a. State the OPORD mission.
    b. Maintenance essential tasks extracted from the OPORD.
    d. List equipment requirements to support mission.
    e. Define crew composition and management based on T&R CMMR.
    i. Emplacement.
    k. Redeployment plan.
    l. State maintenance sustainment plan.
    m. State supply support required.
    n. State logistical support required.
    o. Issues of concern.
2. Present the brief.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor will ensure the brief contains the requirement items and that the overall planning supports the mission in the OPORD.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. OPORD
2. Local Unit SOP
3. Local MMO SOP

OMGT-2697 6.0 * B L

Goal. Identify Operational Requirements.

Requirement. Given an OPORD, determine the operational requirement of the maintenance section to support the mission, to include:

1. Communication electronics equipment required.
    a. Radio requirements.
    b. Network requirements.
    c. Radar requirements.
2. Engineering equipment.
    a. Air conditioners.

b. Heavy equipment.
c. Generators.
3. Personnel required.
a. Identify minimum number of mission skilled maintainers per crew required to support the mission.
b. Identify minimum number of designated leaders required to support the mission.
c. List the administrative requirements for crew.
(1) Tactical license.
(2) Security Clearance.
4. Cryptographic equipment required.
5. Logistics support required.
6. Supply support required.
a. Bill of Material (BOM) requirements.
b. SECREP requirements.
7. Frequencies required.
a. Draft a frequency request. (TPS-63, TPS-59, IFF, Mode-4).
b. Draft a satellite access request.
8. Develop an Equipment Density List (EDL) for PEIs.
9. Draw a site layout plan.
10. Draft a brief covering addressing the deployment and emplacement plan to support the mission.
11. Submit the site layout and brief the plan.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Planning MCWP 5-1
2. MOS Manual
3. TM 2000
4. MCWP 3-40.3
5. CJCSM 6231
6. JT PUB Series 6-05
7. Chapter 1 of this Manual

OMGT-2698 4.0 * B L

Goal. Provide input for the operational plan.

Requirement. Given an operation and command guidance, provide input for the operations order:

1. Verify mission requirements.
2. Determine mission essential equipment.
3. Provide input for the mission Equipment Density List.
4. Assign maintenance personnel to meet mission requirements.
5. Provide input for mission execution.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor shall ensure that the communications portion of operation plan supports the mission.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Operations Order

OMGT-2699 4.0 * B L

Goal. Organize and staff crew for deployment.

Requirement. Given a scenario and references, perform the following:

1. Integrate crew personnel.
    a. Ensure minimum number of core skilled maintainers are assigned per this manual.
    b. Ensure minimum number of designated leaders are assigned per this manual.
2. Administrate crew.
    a. Tactical license.
    b. Supply.
    c. Orders.
    d. Security Clearance.
    e. Pay.
    f. Courier Letter.
3. Conduct crew brief.

Performance Standard. Given a scenario, identify the requirements to establish a core capable crew, without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5

OMGT-2700 4.0 * B L

Goal. Submit of a Bill of Material (BOM) request.

Requirement. Given TEEP documents and references, perform the following:

1. Collect requests from maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24 hour operations and for the length of the exercise, validate the content to ensure that it meets sustained operational requirement.
4. Submit a BOM request.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCO P4400.150E W/ERRATUM CH 1-2

OMGT-2701 4.0 * B L

Goal. Ensure safety procedures and precautions are followed during embarkation, set-up, and maintenance production.

Requirement. Given references, ensure that all personnel are informed of and following all safety procedures and precautions during all phases of operation and maintenance by performing the following:

1. Prepare deliberate ORM for the given scenario.
2. Ensure all safety procedures/precautions are followed during embarkation.
    a. Packing.
    b. Loading.
3. Ensure all safety procedures/precautions are followed during employment.

a. Set-up.
b. Operations.

4. Ensure all safety procedures/precautions are followed during maintenance.
a. Personnel safety.
b. Equipment safety.

Performance Standard. Given a scenario and core competent crew, prepare ORM worksheets and verify safety procedures are followed. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit SOP
2. Applicable technical manuals
3. NAVMC DIR 5100.8

6.11 MISSION SKILL TRAINING (3000)

6.11.1 Purpose. To provide the requisite advanced skills and working knowledge to employ the MACCS and ancillary equipment in order to accomplish the Marine Air Support Squadron missions.

6.11.2 General.

6.11.2.1 Prerequisite.

6.11.2.2 Admin Notes.

(1) Training in this phase does not preclude simultaneous training in Core Skill and Core Plus phases.

(2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable. Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event. Crew member assistance must be restricted to those actions required to support or facilitate individual training so as

not to detract from the individual properly demonstrating the event performance standard.

(4) Academic Training. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

(5) Refresher Training. Refresher training is required once a individual has been absent from a technician billet for 36 months or longer. Upon return, the individual will complete R-coded events in the Attain table; else the technician will maintain proficiency by completing the R-coded events in the Maintain table.

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

PAR NO.	STAGE NAME
6.11.3	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
6.11.4	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
6.11.5	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
6.11.6	EQUIPMENT (EQUIP)
6.11.7	OPERATIONAL MANAGEMENT (OMGT)

6.11.3 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

6.11.3.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.11.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-3280 4.0 1095 B,R,M E L

Goal. Explain concepts included in A+ exam 220-801.

Requirement. Without the aid of references, explain:

1. PC Hardware.
2. Networking.
3. Laptop.
4. Printers.
5. Operational Procedures.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-3281 4.0 1095 B,R,M E L

Goal. Explain concepts included in A+ exam 220-802.

Requirement. Without the aid of references, explain:

1. Operating Systems.
2. Security.
3. Mobile Devices.
4. Troubleshooting.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2255, 2256, 2257, 2258

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.11.4 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

6.11.4.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.11.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-3282 4.0 1095 B, R, M E L

Goal. Explain concepts included in Network+ exam N10-005.

Requirement. Without the aid of references, explain:

1. Networking Concepts.
2. Network Installation and Configuration.
3. Network Media and Topologies.
4. Network Management.
5. Network Security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.11.5 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST) STAGE

6.11.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

6.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-3283 4.0 1095 B, R, M E L

Goal. Explain concepts included in Security + exam SY0-301.

Requirement. Without the aid of reference, explain:

1. Network Security.
2. Operational Security.
3. Threats and vulnerabilities.
4. Cryptography.
5. Access control and identity management.
6. Application, data and host security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material

6.11.6 EQUIPMENT (EQUIP) STAGE

6.11.6.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

6.11.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-3454 4.0 365 B, R, M L

Goal. Verify operational configuration of Tactical Data Systems.

Requirement. Given the reference and an operational Tactical Data System, a core capable crew, operational documents, verify that the following supports the operations order:
-Voice communication configurations.
-Data communication configurations.
Tactical Data Link configurations.
ADPE configurations.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 10498B-OD TAOM Operations Maintenance Manual

2. Applicable manufacturer's manuals (UPS, Ethernet Switch, Themis)
3. TM 10446B-OI SAAWF Operations and Maintenance Instructions
4. TM 10200A-OI/1 ADCP Maintenance Manual
5. TM 11399A-OI/1 JRE Operations and Maintenance Instructions

6.11.7 OPERATIONAL MANAGEMENT (OMGT) STAGE

6.11.7.1 Purpose. To provide the trainee advanced skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

6.11.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-3716 6.0 * B L

Goal. Deploy a maintenance section in support of unit operations.

Requirement. Given a scenario or operational deployment and commander's guidance, deploy the maintenance section:

1. Review and recommend changes to the operational plan.
2. Coordinate equipment support as required.
3. Review and recommend changes to the Bill of Materials.
4. Review and recommend SECREP requirements as required.
5. Supervise pack-up of equipment.
6. Ensure correct execution of the load plan for equipment handling and safety.
7. Review and approve EDL.
8. Determine maintenance requirements.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 3120.6_

OMGT-3718 20.0 730 B, R, M L

Goal. Deploy TDS capability ISO operations order.

Requirement. Given the reference, core capable crew(s), operational documents, TDS(s), complete the following:

1. Verify TDS site emplacement.
2. Verify TDS configuration.
3. Verify crew(s) are established.
4. Verify classified materials are managed.
5. Verify physical security.
6. Verify logistics support.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. To meet the requirement the TDS must be moved.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5.11.1A
2. MCWP 3-40.3
3. MCWP 3.25
4. MCWP 3-25.7
5. TM 08611B-OI VOL1 of 3 REV 1, Mobile Tactical Air Operations Module
TM-11406A-OR/1-1, Composite Tracking Network
DRAFT – TM 12041A/15050A-OD/2 CAC2S System User Manual

6.12 CORE PLUS TRAINING (4000)

6.12.1 Purpose. To train the trainee on core plus concepts.

6.12.2 General.

6.12.2.1 Prerequisiste. None

6.12.2.2 Admin Notes. None

6.12.2.3 Stages. The following stage is included in the Core Plus Skill Phase of training.

PAR NO.	STAGE NAME
6.12.3	EQUIPMENT (EQUIP)

6.12.3 EQUIPMENT (EQUIP) STAGE

6.12.3.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

6.12.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-4455 4.0 * B L

Goal. Identify hazards specific to the LRR and MRR.

Requirement. Given the references and an energized LRRS and MRRS, identify the following hazards:

1. RF.
2. Components.
3. Fire.
4. Suffocation.
5. Emplacement operations and maintenance.
6. Electro-static discharge.

Performance Standard. With the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR
2. TM 07736C 14/1-1

EQUIP-4456 4.0 * B L

Goal. Review system troubleshooting on a MRR.

Requirement. Given the references, a mission capable crew, a de-

energized MRRS radar with a fault in the system, tools and TMDE, complete the following:

1. Monitor the operational checks and alignments of the radar system.
2. Identify and review symptoms of a fault within the radar system.
3. review the fault to the line replaceable unit.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C Series

EQUIP-4457 4.0 * B L

Goal. Verify the MRR configuration.

Requirement. Given the reference, a mission capable crew, an operating MRR, and operational documents, complete the following:

1. Verify the appropriate radar frequency.
2. Verify the appropriate radar pulse width.
3. Verify the appropriate MTI range.
4. Verify the appropriate weather sector.
5. Verify the appropriate staggered PRF sector for the operational environment.
6. Verify the appropriate radar blanking sector.
7. Verify and/or adjust the manual STC curve to suit the operational environment.
8. Verify and/or adjust the manual ECM alarm to suit the operational environment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07736C-14/3

EQUIP-4458 4.0 * B L

Goal. Review system troubleshooting on a LRR.

Requirement. Given the references, mission capable crew, a de-energized LRRS radar with a fault in the system, tools and TMDE, complete the following:

1. Direct the operational checks and alignments of the radar system.
2. Identify and review symptoms of a fault within the radar system.
3. Review the fault to the line replaceable unit.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR

EQUIP-4459 4.0 * B L

Goal. Verify the LRR system configuration.

Requirement. Given the reference and an operational LRR, a mission capable crew, operational documents, verify the following:
-Radar Frequency.
-Physical Data.
-Atmospheric Data.
-External Alignment.
-IFF Control.
-SET Function Status.
-Platform Level.
-North Alignment.
-Mission.
-Weather Sectors.
-Blanking Sectors.
-Radar Control.

-Scan Rate.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 07751C-OR

EQUIP-4460 4.0 * B L

Goal. Verify the configuration of the Interrogator Set.

Requirement. Given the references, a mission capable crew, operational documents, radar, and an Interrogator set verify the following:

1. cable configuration.
2. software parameters.
3. hardware configuration.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Interrogator TM

6.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

6.13.1 Purpose. To provide technicians the additional skills necessary to instruct, evaluate and approve event completions. Upon completion of the required training, an individual may be approved for instructor designation by the commanding officer.

6.13.2 General.

6.13.2.1 Prerequisiste. None

6.13.2.2 Admin Notes.

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

b. There are different instructor designations (listed below). The intent is to train individuals with different levels and areas of experience to instruct personnel. Instructor experience is also gained while progressing through the different instructor designations.

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) Weapons and Tactics Instructor (WTI)

(4) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors. The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx.

(5) 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	Core Skill events in which current and proficient
SI	Core Skill and Mission Skill events
WTI	Mission Skill and Qualification events. - Evaluate and recommend for qualification - Endorse recommendations for position designations
	The Commanding Officer is the approving authority for qualifications and designations.

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

PAR NO.	STAGE NAME
6.13.3	INSTRUCTOR UNDER TRAINING (IUT)

6.13.3 INSTRUCTOR UNDER TRAINING (IUT) STAGE

6.13.3.1 Purpose. To train Aviation Radar Maintenance Officers in the fundamentals of instructing and training processes.

6.13.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

T&R CODE	EVENT DESCRIPTION	INSTRUCTOR
5000	Introduce principles of instruction	BI
5010	Understand the structure of an event	BI
5020	Conduct a period of instruction on a core skill event	BI
5100	Understand the Aviation Training and Readiness (T&R) Program	SI
5110	Understand the applicable community T&R program	SI
5120	Understand T&R administration	SI
5130	Develop a training plan	SI

6.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000)

6.14.1 Purpose. This phase provides community standardization for MACCS Warrant Officer certifications and designations; combat leaders and instructor designations. This syllabus does not contain "one time" certification training requirements.

6.14.2 General.

6.14.2.1 Prerequisiste. None

6.14.2.2 Admin Notes.

(1) This section enables units to document and track combat leaders, instructors, technician and CD assignments. All syllabus training and administration requirements must be complete prior to being qualified or designated. A qualification or designation is not effective until all administration is completed.

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

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

PAR NO.	STAGE NAME
6.14.3	CERTIFICATIONS (CERT)
6.14.4	DESIGNATION (DESG)
6.14.5	SCHOOL CODES (SCHL)

6.14.3 CERTIFICATIONS (CERT) STAGE

6.14.3.1 Purpose. To provide for certifications of Information Assurance

Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

6.14.3.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining certification are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. NONE.

CERT-6200 4.0 * B L

Goal. Certification as a COMPTIA A+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA 220-801 and COMPTIA 220-802. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

CERT-6201 4.0 * B L

Goal. Certification as a COMPTIA Network+ Technician.

Requirement. Complete the required industry certification exam, COMPTIA N10-005. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263, 3282

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

CERT-6202 4.0 * B L

Goal. Certification as a COMPTIA Security+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA SY0-301. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269, 3283

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DOD 8570._

6.14.4 DESIGNATIONS (DESG) STAGE

6.14.4.1 Purpose. To provide for designation of combat leaders and instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If prerequisite R-coded events are delinquent, the individual shall update those events.

6.14.4.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining designations are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

DESG-6306 1.0 * L

Goal. Designation as the DSMO.

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

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Unit TO/E

DESG-6320 1.0 * B L

Goal. Designation as a Basic Instructor (BI).

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

Performance Standard. N/A

Instructor. WTI

Prerequisite. 5000, 5010, 5020

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14_

DESG-6321 1.0 * B L

Goal. Designation as a Senior Instructor (SI).

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

Performance Standard. N/A

Instructor. WTI

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14_

DESG-6322 0.5 * B

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

Requirement. Be certified by MAWTS-1 as a WTI and be recommended for designation by the squadron WTI. The commanding officer will designate the WTI in writing.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 6000, 6306, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14_

6.14.5 SCHOOL CODES (SCHL) STAGE

6.14.5.1 Purpose. To provide tracking codes for schools that are pertinent to the training of the 5910 in the skill progression of the Marine.

6.14.5.2 General

Prerequisite. None

Admin Notes. Policies and prerequisites for attending the listed schools are maintained within MCTIMS.

Crew Requirements. None

SCHL CODE	NAME OF COURSE	LOCATION	CID
SCHL-6000	Weapons and Tactics Instructor (WTI)	MCAS Yuma, AZ	M14P2A1

SCHL-6023	Link 16 Joint Interoperability Course (US-109)	Joint Knowledge Online (JKO)	N/A
SCHL-6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	Fort Bragg, NC	A36L6Z1
SCHL-6024	Multi TDL Planner Course (JT-201)	Fort Bragg, NC	A05KHY1
SCHL-6025	Link 16 Unit Manager (LUM) Course (JT-220)	Fort Bragg, NC	N/A

6.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

6.15.1 Purpose. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

6.15.2 General

6.15.2.1 Prerequisite. Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase. For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

6.15.2.2 Admin Notes. Prerequisites for this phase of training cannot be waived. Multiple events can be trained at the same time as long as separate evaluations are being conducted.

6.15.2.3 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training.

PAR NO.	STAGE NAME
6.15.3	CONDITION (COND)

6.15.3 CONDITION (COND) STAGE

6.15.3.1 Purpose. To train unit level teams in executing community specific MET(s) or MET preparatory events.

6.15.3.2 General

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Admin Notes. All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter Of Intent (LOI)
2. Personnel Roster
3. Bill Of Material (BOM)
4. Equipment Density List (EDL)

Crew Requirements. This stage requires that all crew members and combat leaders be qualified/designated and proficient (current) in the position they are assigned for the following events. Crews shall be task organized to meet the mission.

COND-7500 50.0 365 B, R, M C2 System L/S

Goal. Employ a TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a TAOC to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct an RSOP
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of personnel
10. Conduct TAOC operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct TAOC operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. Minimum of two CMMR TAOC Crews

Ordnance. None.

Range. Range space capable of hosting itinerant air traffic, combat air patrols, air-to-air refueling tracks, HVAA tracks

External Syllabus Support. TAOC Detachment Commander and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets.

Reference.
1. U-TAOC-PCL-03862, TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

COND-7505 10.0 365 B, R, M L/S

Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for TAOC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites
2. Identify environmental concerns that may affect TAOC communication
3. Coordinate with higher to provide TAOC requirements

4. Coordinate site security, camouflage, dispersion, and trafficability
5. Identify locations for emplacement of communications and support equipment
6. Coordinate priorities for equipment emplacement
7. Identify echelon considerations
8. Identify Advanced Party/RSOP Team
9. Occupy the site
10. Emplace the TAOC

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Instructor. C3 WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. TAOC Detachment Commander, TAOC Crew Chief, security team, Representatives from the S-2, S-4, S-6

Reference.
1. U-TAOC-PCL-03862 TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

6.16 AVIATION CAREER PROGRESSION MODEL (8000).

6.16.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

Marine Air Command and Control System (MACCS)
Aviation Ground Support
Joint Air Operations
ACE Battle Staff
MAGTF
Seabased Operations
Combatant Commander Organizations

6.16.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM

program of instruction: https://vcepub.tecom.usmc.mil/sites/msc/magtftc/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	Marine Unmanned Aerial Vehicle Squadron (VMU)		4	2000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000 PHASE
ACPM	8020	**ACE**		1	2000 PHASE
ACPM	8021	AVIATION OPERATIONS		4	2000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000 PHASE
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000 PHASE
ACPM	8024	ASSAULT SUPPORT		4	2000 PHASE
ACPM	8025	AIR RECONNAISSANCE		4	2000 PHASE
ACPM	8026	ELECTRONIC WARFARE		4	2000 PHASE
ACPM	8027	ANTI-AIR WARFARE		4	2000 PHASE
ACPM	8028	AVIATION GROUND SUPPORT		4	2000 PHASE
ACPM	8040	**THREAT**		1	3000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8060	**MAGTF**		1	4000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	4000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	4000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	4000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	4000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	4000 PHASE
ACPM	8066	INFORMATION MANAGEMENT		4	4000 PHASE
ACPM	8067	UAS SUPPORT OF THE MAGTRF		4	4000 PHASE
ACPM	8080	**JOINT AIR OPERATIONS**		1	4000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	4000 PHASE
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	4000 PHASE

ACPM	8083	JOINT FIRE SUPPORT		4	4000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	4000 PHASE
ACPM	8085	JOINT TARGETING		4	4000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	4000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	4000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	4000 PHASE
TOTAL ACPM STAGE			40	145	

6.17 T&R ATTAIN AND MAINTAIN TABLES

TAOC MAINTENANCE MOS 5970											
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		
Describe proper handling and storage of classified materials.	COMSEC	2190	365	COMSEC	2190	COMSEC	2190	COMSEC	2190	-	-
State the physical security requirements for classified areas.	COMSEC	2191	365	COMSEC	2191	COMSEC	2191	COMSEC	2191	-	-
Create a classified area physical security diagram.	COMSEC	2192	365	COMSEC	2192	COMSEC	2192	COMSEC	2192	2191	-
Conduct classified material inventory.	COMSEC	2193	365	COMSEC	2193	COMSEC	2193	COMSEC	2193	2190	-
Extract key material information from EKMS COMSEC callout.	COMSEC	2194	*	COMSEC	2194	COMSEC	2194			2190	-
Utilize a Common Fill Device.	COMSEC	2195	365	COMSEC	2195	COMSEC	2195	COMSEC	2195	2190	-
Ensure CMCC handling procedures are followed.	COMSEC	2196	*	COMSEC	2196					2190	-
Ensure EKMS material handling procedures are followed.	COMSEC	2197	*	COMSEC	2197					2190	-
Ensure CCI material handling procedures are followed.	COMSEC	2198	*	COMSEC	2198					2190	-
Validate physical security of classified areas.	COMSEC	2200	*	COMSEC	2200					2191, 2192	-
Verify the proper use of a Common Fill Device.	COMSEC	2201	*	COMSEC	2201					2190, 2195	-
Identify organic Cryptographic Controlled Item (CCI) devices organic to the section.	COMSEC	2202	*	COMSEC	2202					2190, 2193	-
Identify equipment classification requirements.	COMSEC	2203	*	COMSEC	2203					2190	-
Familiarization with LRR equipment.	FAM	2219	*	FAM	2219					-	-
Familiarization with MRR equipment.	FAM	2220	*	FAM	2220					-	-
Describe the Identification Friend or Foe (IFF) MK XII interrogator system.	FAM	2221	*	FAM	2221					-	-
Describe TACLAN.	FAM	2222	*	FAM	2222					-	-

Identify the major components of the Composite Tracking Network (CTN).	FAM	2223	*	FAM	2223					-	-
Explain PC hardware.	IAWFAT	2250	*	IAWFAT	2250					-	-
Explain networking concepts.	IAWFAT	2251	*	IAWFAT	2251					-	-
Explain laptop features and characteristics.	IAWFAT	2252	*	IAWFAT	2252					-	-
Explain printer features and characteristics.	IAWFAT	2253	*	IAWFAT	2253					-	-
Explain operational procedures.	IAWFAT	2254	*	IAWFAT	2254					-	-
Explain operating systems.	IAWFAT	2255	*	IAWFAT	2255					-	-
Explain security.	IAWFAT	2256	*	IAWFAT	2256					-	-
Explain Mobile Devices.	IAWFAT	2257	*	IAWFAT	2257					-	-
Explain Troubleshooting.	IAWFAT	2258	*	IAWFAT	2258					-	-
Explain Networking Concepts.	IAWFNT	2259	*	IAWFNT	2259					-	-
Explain Network Installation and Configuration.	IAWFNT	2260	*	IAWFNT	2260					-	-
Explain Network Media and Topologies.	IAWFNT	2261	*	IAWFNT	2261					-	-
Explain Network Management.	IAWFNT	2262	*	IAWFNT	2262					-	-
Explain Network Security.	IAWFNT	2263	*	IAWFNT	2263					-	-
Explain Network Security.	IAWFST	2264	*	IAWFST	2264					-	-
Explain Operational Security.	IAWFST	2265	*	IAWFST	2265					-	-
Explain threats and vulnerabilities.	IAWFST	2266	*	IAWFST	2266					-	-
Explain cryptography.	IAWFST	2267	*	IAWFST	2267					-	-
Explain access control and identity management.	IAWFST	2268	*	IAWFST	2268					-	-
Explain application, data and host security.	IAWFST	2269	*	IAWFST	2269					-	-
Review system troubleshooting on the TDS equipment within the TAOC.	EQUIP	2436	*	EQUIP	2436					-	-
Verify system configuration of tactical data systems within the TAOC.	EQUIP	2437	*	EQUIP	2437					-	-
Plan for deployment of Tactical Data Systems.	EQUIP	2438	*	EQUIP	2438					-	-
Identify the requirements for a Pre-extended Bin (PEB).	MMGT	2615	*	MMGT	2615					-	-
Ensure the corrective maintenance repair process is being conducted.	MMGT	2616	*	MMGT	2616					-	-
Identify Critical Low Density SECREP assets and required on-hand quantities.	MMGT	2617	*	MMGT	2617					-	-
Develop a maintenance section budget.	MMGT	2618	*	MMGT	2618					-	-
State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	MMGT	2619	*	MMGT	2619					-	-
Conduct a Consolidated Memorandum Receipt (CMR) Review.	MMGT	2620	*	MMGT	2620					-	-
Draft a Using Unit Responsibility Items (UURI) authorization letter.	MMGT	2621	*	MMGT	2621					-	-
Explain Recoverable Items Report (WIR) procedures.	MMGT	2622	*	MMGT	2622					-	-
Submit a maintenance cycle time extension letter.	MMGT	2623	*	MMGT	2623					-	-

Submit a Product Quality Deficiency Report (PQDR).	MMGT	2624	*	MMGT	2624					-	-
Assess maintenance shop performance.	MMGT	2650	1095	MMGT	2650	MMGT	2650	MMGT	2650	-	-
Design a site layout.	OMGT	2695	*	OMGT	2695					-	-
Prepare and present a command level brief for deployment.	OMGT	2696	*	OMGT	2696					-	-
Identify Operational Requirements.	OMGT	2697	*	OMGT	2697					-	-
Provide input for the operational plan.	OMGT	2698	*	OMGT	2698					-	-
Organize and staff crew for deployment.	OMGT	2699	*	OMGT	2699					-	-
Submit of a Bill of Material (BOM) request.	OMGT	2700	*	OMGT	2700					-	-
Ensure safety procedures and precautions are followed during embarkation, set-up, and maintenance production.	OMGT	2701	*	OMGT	2701					-	-
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		
Explain concepts included in A+ exam 220-801.	IAWFAT	3280	1095	IAWFAT	3280	IAWFAT	3280	IAWFAT	3280	2250, 2251, 2252, 2253, 2254	-
Explain concepts included in A+ exam 220-802.	IAWFAT	3281	1095	IAWFAT	3281	IAWFAT	3281	IAWFAT	3281	2255, 2256, 2257, 2258	-
Explain concepts included in Network+ exam N10-005.	IAWFNT	3282	1095	IAWFNT	3282	IAWFNT	3282	IAWFNT	3282	2259, 2260, 2261, 2262, 2263	-
Explain concepts included in Security + exam SY0-301.	IAWFST	3283	1095	IAWFST	3283	IAWFST	3283	IAWFST	3283	2264, 2265, 2266, 2267, 2268, 2269	-
Verify operational configuration of Tactical Data Systems.	EQUIP	3454	365	EQUIP	3454	EQUIP	3454	EQUIP	3454	-	-
Deploy a maintenance section in support of unit operations.	OMGT	3716	*	OMGT	3716					-	-
Deploy TDS capability ISO operations order.	OMGT	3718	730	OMGT	3718	OMGT	3718	OMGT	3718	-	-
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		
Identify hazards specific to the LRR and MRR.	EQUIP	4455	*	EQUIP	4455					-	-
Review system troubleshooting on a MRR.	EQUIP	4456	*	EQUIP	4456					-	-
Verify the MRR configuration.	EQUIP	4457	*	EQUIP	4457					-	-
Review system troubleshooting on a LRR.	EQUIP	4458	*	EQUIP	4458					-	-
Verify the LRR system configuration.	EQUIP	4459	*	EQUIP	4459					-	-
Verify the configuration of the Interrogator Set.	EQUIP	4460	*	EQUIP	4460					-	-

6.18 T&R SYLLABUS MATRIX

TAOC MOS 5970 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
AIR SCHOOLS (AIRS) STAGE																			
AIRS	1001	Draw a Communications Diagram for the agencies within the MACG.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1002	Conduct an inspection of maintenance functional areas.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1003	Identify the key elements of Operational Orders (OPORD).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1004	Reconcile Marine Corps Integrated Maintenance Management System (MIMMS) Automated Information System (AIS) reports.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1005	Identify the services provided by Marine Wing Communications Squadron.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1006	Identify Information Assurance requirements for tactical employment of information systems.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1007	Identify TAOC and EW/C communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1008	Identify TACC Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1009	Identify DASC communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1010	Analyze the TO/E.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1011	Identify spectrum management procedures.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-

AIRS	1012	Identify the embarkation requirements for the major end items of the TACC, DASC, TAOC, and EW/C.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1013	Identify LAAD Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1014	Identify MATC communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1015	Identify UAS Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1016	Identify the Marine Corps Urgent Needs Process (MCUNP).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1017	Validate induction of new equipment into service.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1018	Demonstrate the process to phase out obsolete equipment.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1019	Identify maintenance funding requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1020	Identify the SECREP management process.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1021	Identify DOD Information Assurance Workforce structure.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1022	Access published information within TFSMS.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1023	Describe readiness ratings within DRRS-MC.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1024	Explain the product quality deficiency report (PQDR).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1025	Identify major funding lines.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1026	State the duties of the responsible Officer.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
TOTAL AIR SCHOOLS (AIRS) STAGE										26	0.0	0	0.0	0	0.0				
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
COMMUNICATION SECURITY (COMSEC)																			
COMSEC	2190	Describe proper handling and storage of classified materials.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-
COMSEC	2191	State the physical security requirements for classified	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	-

		areas.																		
COMSEC	2192	Create a classified area physical security diagram.	B,R,M	-	L	-	-	-	365		0		0		2.0	2191	-	-	-
COMSEC	2193	Conduct classified material inventory.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2194	Extract key material information from EKMS COMSEC callout.	B, R	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2195	Utilize a Common Fill Device.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2196	Ensure CMCC handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2197	Ensure EKMS material handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2198	Ensure CCI material handling procedures are followed.	B	-	L	-	-	-	*		0		0		1.0	2190	-	-	-
COMSEC	2200	Validate physical security of classified areas.	B	-	L	-	-	-	*		0		0		4.0	2191, 2192	-	-	-
COMSEC	2201	Verify the proper use of a Common Fill Device.	B	-	L	-	-	-	*		0		0		4.0	2190, 2195	-	-	-
COMSEC	2202	Identify organic Cryptographic Controlled Item (CCI) devices organic to the section.	B	-	L	-	-	-	*		0		0		4.0	2190, 2193	-	-	-
COMSEC	2203	Identify equipment classification requirements.	B	-	L	-	-	-	*		0		0		4.0	2190	-	-	-
TOTAL COMMUNICATION SECURITY (COMSEC) STAGE										0	0.0	0	0.0	13	33.0					
FAMILIARIZATION (FAM)																				
FAM	2219	Familiarization with LRR equipment.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2220	Familiarization with MRR equipment.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2221	Describe the Identification Friend or Foe (IFF) MK XII interrogator system.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2222	Describe TACLAN.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2223	Identify the major components of the Composite Tracking Network (CTN).	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL FAMILIARIZATION (FAM) STAGE										0	0.0	0	0.0	5	5.0					
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE																				
IAWFAT	2250	Explain PC hardware.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-

IAWFAT	2251	Explain networking concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2252	Explain laptop features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2253	Explain printer features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2254	Explain operational procedures.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2255	Explain operating systems.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2256	Explain security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2257	Explain Mobile Devices.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2258	Explain Troubleshooting.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE										0	0.0	0	0.0	9	36.0					
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE																				
IAWFNT	2259	Explain Networking Concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2260	Explain Network Installation and Configuration.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2261	Explain Network Media and Topologies.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2262	Explain Network Management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2263	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0.0	0	0.0	5	20.0					
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																				
IAWFST	2264	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2265	Explain Operational Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2266	Explain threats and vulnerabilities.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2267	Explain cryptography.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2268	Explain access control and identity management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2269	Explain application, data and host security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0.0	0	0.0	6	24.0					
EQUIPMENT (EQUIP)																				
EQUIP	2436	Review system troubleshooting on the TDS equipment within the TAOC.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	2437	Verify system configuration of tactical data systems within the TAOC.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	2438	Plan for deployment of Tactical Data Systems.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-

TOTAL EQUIPMENT (EQUIP) STAGE										0	0.0	0	0.0	3	12.0					
MAINTENANCE MANAGEMENT (MMGT)																				
MMGT	2615	Identify the requirements for a Pre-extended Bin (PEB).	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2616	Ensure the corrective maintenance repair process is being conducted.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2617	Identify Critical Low Density SECREP assets and required on-hand quantities.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2618	Develop a maintenance section budget.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2619	State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2620	Conduct a Consolidated Memorandum Receipt (CMR) Review.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
MMGT	2621	Draft a Using Unit Responsibility Items (UURI) authorization letter.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
MMGT	2622	Explain Recoverable Items Report (WIR) procedures.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
MMGT	2623	Submit a maintenance cycle time extension letter.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
MMGT	2624	Submit a Product Quality Deficiency Report (PQDR).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
MMGT	2650	Assess maintenance shop performance.	B,R,M	-	L	-	-	-	1095		0		0		4.0	-	-	-	-	
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0.0	0	0.0	11	56.0					
OPERATIONAL MANAGEMENT (OMGT)																				
OMGT	2695	Design a site layout.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
OMGT	2696	Prepare and present a command level brief for deployment.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
OMGT	2697	Identify Operational Requirements.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-	
OMGT	2698	Provide input for the operational plan.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
OMGT	2699	Organize and staff crew for deployment.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	
OMGT	2700	Submit of a Bill of Material (BOM) request.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-	

OMGT	2701	Ensure safety procedures and precautions are followed during embarkation, set-up, and maintenance production.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0.0	0	0.0	7	34.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										0.0	0.0	0.0	0.0	59.0	220.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE																			
IAWFAT	3280	Explain concepts included in A+ exam 220-801.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2250, 2251, 2252, 2253, 2254	-	-	-
IAWFAT	3281	Explain concepts included in A+ exam 220-802.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2255, 2256, 2257, 2258	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE										0	0	0	0	2	8.0				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE																			
IAWFNT	3282	Explain concepts included in Network+ exam N10-005.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2259, 2260, 2261, 2262, 2263	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	1	4.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																			
IAWFST	3283	Explain concepts included in Security + exam SY0-301.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	1	4.0				
EQUIPMENT (EQUIP)																			
EQUIP	3454	Verify operational configuration of Tactical Data Systems.	B,R,M	-	L	-	-	-	365		0		0		4.0	-	-	-	-
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	1	4.0				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	3716	Deploy a maintenance section in support of unit operations.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
OMGT	3718	Deploy TDS capability ISO operations order.	B,R,M	-	L	-	-	-	730		0		0		20.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0	0	0	6	26.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										0	0.0	0	0.0	11	46.0				
CORE PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
EQUIPMENT (EQUIP)																			
EQUIP	4455	Identify hazards specific to the LRR and MRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	4456	Review system troubleshooting on a MRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	4457	Verify the MRR configuration.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-

EQUIP	4458	Review system troubleshooting on a LRR.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	4459	Verify the LRR system configuration.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	4460	Verify the configuration of the Interrogator Set.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	6	24.0					
TOTAL CORE PLUS SKILL PHASE (4000 PHASE)										0	0.0	0	0.0	6	24.0					
TOTAL 2000, 3000, AND 4000 PHASE										0	0.0	0.0	0.0	76	366.0					
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																				
INSTRUCTOR UNDER TRAINING (IUT)																				
BASIC INSTRUCTOR (BI)																				
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WTI	-	-	-
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*		0		0		1.0	Recommended by SI or WTI	-	-	-
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WTI	-	-	-
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										0	0	0	0	3	5.0					
SENIOR INSTRUCTOR (SI)																				
IUT	5100	Understand Aviation T&R program	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5130	Develop a training plan	B,R,M	-	G	-	-	D	365		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8.0					
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	0	7	13.0					
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																				
CERTIFICATION (CERT)																				
CERT	6200	Certification as a COMPTIA A+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281	-	3280, 3281	-
CERT	6201	Certification as a COMPTIA Network+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2259, 2260, 2261, 2262, 2263, 3282	-	3282	-
CERT	6202	Certification as a COMPTIA Security+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269, 3283	-	3283	-
TOTAL CERTIFICATION STAGE (CERT)										0	0	0	0	3	12.0					
DESIGNATIONS (DESG)																				

DESG	6306	DATA SYSTEMS MAINTENANCE OFFICER (DSMO)	B	-	L	-	-	L	*		0		0		1.0	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044	-	-	-
DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	L	*		0		0		1.0	5000, 5010, 5020	-	-	-
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	L	*		0		0		1.0	5000, 5010, 5020, 5100, 5110, 5120, 5130	-	-	-
DESG	6322	Designation as a Weapons and Tacitics Instructor (WTI).	B	-	L	-	-	L	*		0		0		1.0	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 6000, 6306, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044	-	-	-
TOTAL DESIGNATIONS STAGE (DESG)										0	0	0	0	4	4.0					
SCHOOL CODES (SCHL)																				
SCHL	6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	B	-	G	-	-	-	*		0		0		0	-	-	-	-
SCHL	6023	Link 16 Joint Interoperability Course (US-109)	B	-	G	-	-	-	*		0		0		0.0	-	-	-	-
SCHL	6024	Multi TDL Planner Course (JT-201)	B	-	G	-	-	-	*		0		0		0.0	-	-	-	-
SCHL	6025	Link 16 Unit Manager (LUM) Course (JT-220)	B	-	G	-	-	-	*		0		0		0.0	-	-	-	-
TOTAL SCHOOL CODES STAGE (SCHL)										6	0	0	0	0	0.0					
TOTAL REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS SKILLS PHASE (RCQD)										6	0.0	0	0.0	7	16.0					

6.19 ADDITIONAL MATRICES. None

6.20 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS. None

6.21 AVIATION TRAINING FORMS (ATF). A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3 website,

https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

6.22 TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). None