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Subj: LOW ALTITUDE AIR DEFENSE (LAAD) TRAINING AND READINESS (T&R) MANUAL

Ref: (a) NAVMC 3500.14C

Encl: (1) LAAD T&R MANUAL

1. Purpose. To publish revised standards and regulations regarding the training of LAAD Operations crews in accordance with reference (a).

2. Cancellation. NAVMC 3500.57

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

a. The Core Skills event for the officer and enlisted chapters are restructured to provide a more efficient and comprehensive picture of the training pipeline for LAAD gunners and LAAD officers. The new Core Skills for enlisted are as follows: Assistant Gunner (AGNR), Gunner/Team Leader (TLDR), Section Leader (SLDR), Platoon Sergeant (PSGT) and Battery Operations Chief (OPSC). The new Core Skills for the officers are as follows: Platoon Commander (PCDR), Staff Officer (STFO) and Battery Commander (BCDR).

b. Mission Skills have been developed in accordance with assigned Mission Essential Tasks (MET). Mission Skills are as follows: Ground Based Air Defense (GBAD) and Air Base Ground Defense (ABGD).

c. The Manual is restructured in accordance with reference (a) and contains updated phase-numbering and Mission Skill development.

d. Elements of the Aviation Career Progression Model (ACPM) have been integrated from the Marine Aviation Weapons and Tactics Squadron One (MAWTS-1) C3 Course Catalog.

e. The instructor's period of instruction (POI) has been developed to identify individuals that facilitate the evaluation of T&R events, certifications and qualifications. The following instructor designations have been created: Basic Instructor (BI), Senior Instructor (SI), LAAD Enhancement Training Instructor (LETI) and Weapons and Tactics Instructor (WTI). These designations are utilized for training management.

4. Information. Recommended changes to this Manual are invited and may be submitted via the appropriate chain of command to: Commanding General (CG), Training and Education Command (TECOM), 1019 Elliot Road, Quantico, Virginia 22134, Attn: Aviation Training Division (ATD) using standard naval

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correspondence or the Automated Message Handling System (AMHS) Plain Language Address: CG TECOM ATD.

5. Command. This Manual is applicable to the Marine Corps Total Force.
6. Certification. This Manual is effective the date signed.



R. C. FOX
By direction

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CHAPTER 1

LAAD TRAINING AND READINESS UNIT REQUIREMENTS

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Enclosure (1)

CHAPTER 1

LAAD

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

1.1 MISSION. Support the MAGTF Commander by providing close-in, low altitude, surface-to-air weapons fires in defense of MAGTF assets by defending forward combat areas, maneuver forces, vital areas, installations, and /or units engaged in special/independent operations; to provide a task organized ground security force in defense of MAGTF air sites when not engaged in air defense operations.

1.2 TABLE OF ORGANIZATION (T/O). Refer to Table of Organization 8691 (LAAD Battalion Headquarters), 8692 (Headquarters and Services Battery 2nd and 3rd LAAD Battalion), 8693 (Headquarters and Services Detachment 2nd and 3rd LAAD Battalions), 8694 (Alpha and Bravo Battery 2nd and 3rd LAAD Battalions). All T/Os are managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength. Information below depicts (community) T/O information as of the date of this directive.

BATTALION T/O 8694	
UNIT COMPOSITION	TOTALS
ASSISTANT GUNNER	60
TEAM LEADER	60
SECTION LEADER	12
PLATOON SERGEANT	4
OPERATIONS CHIEF	3
TOTAL 7212	139
PLATOON COMMANDER	4
STAFF OFFICER	3
BATTERY COMMANDER	2
TOTAL 7204	9

LAAD BATTERY		LAAD PLATOON		LAAD SECTION	
T/O 8694		T/O 8694		T/O 8694	
UNIT COMPOSITION	TOTALS	UNIT COMPOSITION	TOTALS	UNIT COMPOSITION	TOTALS
ASSISTANT GUNNER	30	ASSISTANT GUNNER	15	ASSISTANT GUNNER	5
TEAM LEADER	30	TEAM LEADER	15	TEAM LEADER	5
SECTION LEADER	6	SECTION LEADER	3	SECTION LEADER	1
PLATOON SERGEANT	2	PLATOON SERGEANT	1	PLATOON SERGEANT	0
OPERATIONS CHIEF	1	OPERATIONS CHIEF	0	OPERATIONS CHIEF	0
PLATOON COMMANDER	2	PLATOON COMMANDER	1	PLATOON COMMANDER	0
STAFF OFFICER	1	STAFF OFFICER	0	STAFF OFFICER	0
BATTERY COMMANDER	1	BATTERY COMMANDER	0	BATTERY COMMANDER	0

Note: Shaded areas signify 7204 Officers on T/Os.

1.3 SIX FUNCTIONS OF MARINE AVIATION

SIX FUNCTIONS OF MARINE AVIATION		
FUNCTION	ABBREVIATION	DESCRIPTION
Offensive Air Support	OAS	OAS involves air operations that are conducted against enemy installations, facilities, and personnel in order to directly assist in the attainment of MAGTF objectives by destroying enemy resources or isolating enemy military forces. Its primary support of the warfighting functions is to provide fires and force protection through CAS and DAS.
Assault Support	ASPT	ASPT contributes to the warfighting functions of maneuver and logistics. Maneuver warfare demands rapid, flexible maneuverability to achieve a decision. Assault support uses aircraft to provide tactical mobility and logistic support to the MAGTF for the movement of high priority personnel and cargo within the immediate area of operations (or the evacuation of personnel and cargo).
Anti-Air Warfare	AAW	AAW is the actions used to destroy or reduce the enemy air and missile threat to an acceptable level. The primary purpose of AAW is to gain and maintain whatever degree of air superiority is required; this permits the conduct of operations without prohibitive interference by opposing air and missile forces. AAW's other purpose is force protection.

Electronic Warfare	EW	EW is any military action involving the use of electromagnetic and directed energy to control the electromagnetic spectrum or to attack the enemy. EW supports the warfighting functions of fires, command and control, and intelligence through the three major subdivisions: electronic attack, electronic protection, and electronic warfare support.
Control of Aircraft & Missiles	CoA&M	The control of aircraft and missiles supports the warfighting function of Command and Control. The ACE commander maintains centralized command, while control is decentralized and executed through the Marine Air Command and Control System (MACCS). CoA&M integrates the other five functions of Marine Aviation by providing the commander with the ability to exercise Command and Control authority over Marine Aviation assets.
Aerial Reconnaissance	AerRec	AerRec employs visual observation and/or sensors in aerial vehicles to acquire intelligence information. It supports the intelligence warfighting function and is employed tactically, operationally, and strategically. The three types of air reconnaissance are visual, multi-sensor imagery, and electronic.

1.4 ABBREVIATIONS. Shading indicates Core Plus Skills.

LAAD	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
AGNR	ASSISTANT GUNNER
TLDR	GUNNER/TEAM LEADER
SLDR	SECTION LEADER
PSGT	PLATOON SERGEANT
OPSC	BATTERY OPERATIONS CHIEF
PCDR	PLATOON COMMANDER
STFO	STAFF OFFICER
BCDR	BATTERY COMMANDER
C2SYS	COMMAND AND CONTROL SYSTEMS
MISSION SKILLS (3000 PHASE)	
GBAD	GROUND BASED AIR DEFENSE
ABGD	AIR BASE GROUND DEFENSE
CORE PLUS SKILLS (4000 PHASE)	
GBAD	GROUND BASED AIR DEFENSE
ABGD	AIR BASE GROUND DEFENSE
C2SYS	COMMAND AND CONTROL SYSTEMS

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

LAAD		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	MCT DESCRIPTION
MCT 6.1.1.8.1	GBAD	CONDUCT GROUND BASED AIR DEFENSE
MCT 6.1.1.10.4.1	ABGD	PROVIDE AIRFIELD SECURITY OPERATIONS

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

LAAD							
MISSION ESSENTIAL TASK LIST (METL)							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoAGM	AerRec
MCT 6.1.1.8.1	GBAD			X		X	
MCT 6.1.1.10.4.1	ABGD						

1.7 MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS. Output standards are based on 24-hour continuous contingency/combat operations.

CORE MET OUTPUT STANDARDS			
MET	ABBREVIATION	OUTPUT STANDARDS	BTRY/PLT/SEC/TM
MCT 6.1.1.8.1	GBAD	(1) MEU AIR DEFENSE PRIORITY IS PROVIDED WITH LOW-ALTITUDE SURFACE-TO-AIR WEAPONS FIRES SUPPORT; (4) MEB AIR DEFENSE PRIORITY IS PROVIDED WITH LOW-ALTITUDE SURFACE-TO-AIR WEAPONS FIRES SUPPORT; (9) MEF AIR DEFENSE PRIORITY IS PROVIDED WITH LOW-ALTITUDE SURFACE-TO-AIR WEAPONS FIRES SUPPORT; Y/N: PLATOON, BATTERY, BATTALION HQ ABLE TO COMMAND AND CONTROL FIRES ASSIGNED TO PROVIDE GROUND SECURITY	MEU: (1) 7204 (34)7212 MEB: (4) 7204 (69)7212 MEF: (9)7204 (139)7212
MCT 6.1.1.10.4.1	ABGD	MEU: (1) AIR SITE IS PROVIDED GROUND SECURITY; MEB: (1) AIR FACILITY IS PROVIDED GROUND SECURITY, OR (2) AIR SITES ARE PROVIDED GROUND SECURITY; Y/N-- PLATOON, BATTERY, BATTALION HQ ABLE TO COMMAND AND CONTROL FIRES ASSIGNED TO PROVIDE GROUND SECURITY; MEF: (1) MAIN AIR BASE IS PROVIDED GROUND SECURITY; (2) AIR FACILITIES ARE PROVIDED GROUND SECURITY; Y/N-- PLATOON, BATTERY, BATTALION HQ ABLE TO COMMAND AND CONTROL FIRES ASSIGNED TO PROVIDE GROUND SECURITY	MEU: (1)7204 (34)7212 MEB: (4)7204 (69)7212 MEF: (9)7204 (139)7212

1.8 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX. This table provides a pictorial view of the relationship between the Core MCT (Marine Core Task)

and each Core/Mission/Core Plus skill required to perform the MCT. Shading indicates Core Plus.

LAAD													
MISSION ESSENTIAL TASK (MET) TO CORE/MISSION/CORE PLUS SKILL MATRIX													
MET	CORE SKILLS 2000 PHASE								MISSION SKILLS 3000 PHASE		CORE PLUS 4000 PHASE		
	AGNR	TLDR	SLDR	PSGT	OPSC	PCDR	STFO	BCDR	GBAD	ABGD	GBAD	ABGD	C2SYS
MCT 6.1.1.8.1	X	X	X	X	X	X	X	X	X		X		X
MCT 6.1.1.10.4.1			X	X	X	X	X	X		X		X	

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

LAAD		
CORE MODEL MINIMUM REQUIREMENTS (CMMR)		
CORE/MISSION/CORE PLUS SKILLS CREW POSITION PROFICIENCY REQUIREMENTS BATTALION/BATTERY/PLATOON/SECTION		
CORE SKILLS (2000 PHASE)		
CORE SKILLS	7204	7212
AGNR	-	45
TLDR	-	45
SLDR	-	9
PSGT	-	4
OPSC	-	3
PCDR	4	-
STFO	3	-
BCDR	2	-
MISSION SKILLS (3000 PHASE)		
MISSION SKILLS	7204	7212
GBAD	9	106
ABGD	9	106
CORE PLUS SKILLS (4000 SKILLS)		
CORE PLUS SKILLS	7204	7212
GBAD	NREQ	NREQ
ABGD	NREQ	NREQ
C2SYS	NREQ	NREQ

1.10 INSTRUCTOR DESIGNATIONS (5000 PHASE)

LAAD		
INSTRUCTOR DESIGNATIONS (5000 PHASE)		
CMMR		
BATTALION/BATTERY/PLATOON/SECTION		
INSTRUCTOR DESIGNATIONS	7204	7212
BASIC INSTRUCTOR (BI)	4	9
SENIOR INSTRUCTOR (SI)	3	3
LAAD ENHANCED TRAINING INSTRUCTOR (LETI)	3	3
WEAPONS AND TACTICS INSTRUCTOR (WTI)	3	3

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

LAAD		
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 PHASE)		
CMMR (T-2)		
BATTALION/BATTERY/PLATOON/SECTION		
RCQD	7204	7212
AGNR	-	45
TLDR	-	45
SLDR	-	9
PSGT	-	3
OPSC	-	2
PCDR	3	-
STFO	2	-
BCDR	2	-

1.12 UNIT EXTERNAL SYLLABUS RESOURCE REQUIREMENTS

1. Appropriate range/training area for land navigation.
2. VHF Frequencies.
3. HF Frequencies.
4. A training area capable of supporting large numbers of tactical vehicles moving in formations.
5. Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.

CHAPTER 2

LOW ALTITUDE AIR DEFENSE (LAAD) OFFICER
(MOS 7204)

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CHAPTER 2

LOW ALTITUDE AIR DEFENSE (LAAD) OFFICER
(MOS 7204)

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

2.1 TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average LAAD officer in terms of core skill, certification, and designation attainment (see fig. 2-1). Units should use the model as a reference to generate individual training plans.

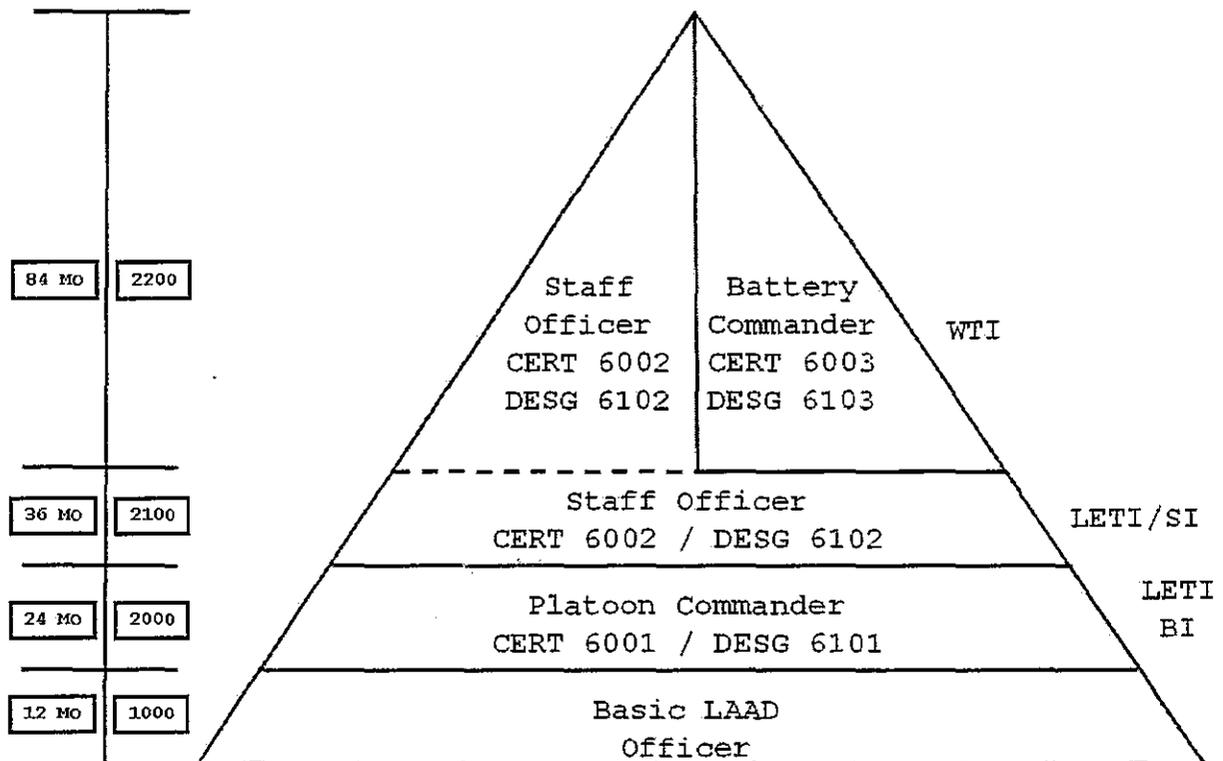


Figure 2-1.--LAAD Officer Progression Model.

2.2 ABBREVIATIONS

LAAD	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 Phase)	
PCDR	PLATOON COMMANDER
STFO	STAFF OFFICER
BCDR	BATTERY COMMANDER
C2SYS	COMMAND AND CONTROL SYSTEMS
MISSION SKILLS (3000 Phase)	
GBAD	GROUND BASED AIR DEFENSE
ABGD	AIR BASE GROUND DEFENSE
CORE PLUS (4000 Phase)	
GBAD	GROUND BASED AIR DEFENSE
ABGD	AIR BASE GROUND DEFENSE
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
LETI	LAAD ENHANCEMENT TRAINING INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
QUALIFICATIONS AND DESIGNATIONS (6000 Phase)	
PCDR	PLATOON COMMANDER
STFO	STAFF OFFICER
BCDR	BATTERY COMMANDER
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
LETI	LAAD ENHANCEMENT TRAINING INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR

2.3 DEFINITIONS

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

Core Plus Mission	Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events.
Core Skill Proficiency (CSP)	CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP.
Mission Skill Proficiency (MSP)	MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness.
Core Plus Skill Proficiency (CPSP)	CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP.
Core Plus Mission Proficiency (CPMP)	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP.

2.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

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

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

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

Note

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

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

LAAD 7204					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY			MAINTAIN PROFICIENCY		
BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
	PCDR 2000				
	PCDR 2001				
	PCDR 2002				
	PCDR 2003				
	PCDR 2004				
	PCDR 2005R		PCDR 2005R		PCDR 2005R
	PCDR 2006R		PCDR 2006R		PCDR 2006R
	PCDR 2007R		PCDR 2007R		PCDR 2007R
	PCDR 2008R		PCDR 2008R		PCDR 2008R
	PCDR 2009				
	PCDR 2010				
	PCDR 2011				
	PCDR 2012R		PCDR 2012R		PCDR 2012R
	PCDR 2013R		PCDR 2013R		PCDR 2013R
	PCDR 2014				
	PCDR 2015				
	PCDR 2016				
	PCDR 2017				
	PCDR 2018				
	PCDR 2019				
PCDR	PCDR 2020	PCDR		PCDR	
	PCDR 2021				
	PCDR 2022				
	PCDR 2023				
	PCDR 2024				
	PCDR 2025				
	PCDR 2026				
	PCDR 2027R		PCDR 2027R		PCDR 2027R
	PCDR 2028				
	PCDR 2029R		PCDR 2029R		PCDR 2029R
	C2SYS 2922				
	C2SYS 2940				
	ACPM 8000				
	ACPM 8001				
	ACPM 8002				
	ACPM 8003				
	ACPM 8004				
	ACPM 8005				
	ACPM 8006				
	ACPM 8007				
	ACPM 8008				
	ACPM 8020				

LAAD 7204					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN PROFICIENCY	
BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
	ACPM 8021				
	ACPM 8022				
	ACPM 8023				
	ACPM 8024				
	ACPM 8025				
	ACPM 8026				
	ACPM 8027				
	ACPM 8028				
	ACPM 8040				
	ACPM 8041				
	ACPM 8042				
	ACPM 8043				
	ACPM 8044				
	ACPM 8045				
	ACPM 8062				
	ACPM 8065				
	ACPM 8083				
	ACPM 8084				
	STFO 2100R		STFO 2100R		STFO 2100R
	STFO 2101				
	STFO 2102				
	STFO 2103				
	STFO 2104				
	STFO 2105				
	STFO 2106				
	STFO 2107				
	STFO 2108				
STFO	STFO 2109	STFO		STFO	
	C2SYS 2921				
	C2SYS 2923				
	ACPM 8060				
	ACPM 8061				
	ACPM 8063				
	ACPM 8064				
	ACPM 8086				
	ACPM 8088				
BCDR	BCDR 2200R	BCDR	BCDR 2200R	BCDR	BCDR 2200R
	BCDR 2201R		BCDR 2201R		BCDR 2201R
	BCDR 2202R		BCDR 2202R		BCDR 2202R

LAAD 7204					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN PROFICIENCY	
BASIC POI		REFRESHER POI			
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
	BCDR 2203				
	BCDR 2204				
	ACPM 8080				
	ACPM 8081				
	ACPM 8082				
	ACPM 8085				
	ACPM 8087				
MISSION SKILL (3000 Phase)					
GBAD	GBAD 3010R	GBAD	GBAD 3010R	GBAD	GBAD 3010R
	GBAD 3011R		GBAD 3011R		GBAD 3011R
	GBAD 3012R		GBAD 3012R		GBAD 3012R
	GBAD 3013R		GBAD 3013R		GBAD 3013R
	GBAD 3014R		GBAD 3014R		GBAD 3014R
	GBAD 3015R		GBAD 3015R		GBAD 3015R
	GBAD 3020R		GBAD 3020R		GBAD 3020R
	GBAD 3021R		GBAD 3021R		GBAD 3021R
	GBAD 3022R		GBAD 3022R		GBAD 3022R
	GBAD 3023R		GBAD 3023R		GBAD 3023R
	GBAD 3024R		GBAD 3024R		GBAD 3024R
	ABGD		ABGD 3100R		ABGD
ABGD 3101R		ABGD 3101R	ABGD 3101R		
ABGD 3102R		ABGD 3102R	ABGD 3102R		
ABGD 3103R		ABGD 3103R	ABGD 3103R		
ABGD 3115R		ABGD 3115R	ABGD 3115R		
ABGD 3116R		ABGD 3116R	ABGD 3116R		
ABGD 3120R		ABGD 3120R	ABGD 3120R		
CORE PLUS SKILLS (4000 Phase)					
GBAD	GBAD 4000R	GBAD	GBAD 4000R	GBAD	GBAD 4000R

LAAD 7204					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY			MAINTAIN PROFICIENCY		
BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
	GBAD-4001				
	ABGD-4100				
ABGD	ABGD-4101	ABGD		ABGD	
"S" prefix and blue font = flown in simulator					
"R" suffix and Grey highlight = R-coded "Refresher" event					

2.5 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, battalion training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, qualification and designation letters signed by the Commanding Officer shall be placed in training Performance Records. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

2.5.1 Instructor Designations. Unit instructors are designated by the commanding officer. As a minimum a LAAD Bn shall maintain one Weapons and Tactics Instructor to Support LAAD training and operations. LAAD Officers receive MOS 7277 upon completion of the WTI course. Instructor designations are outlined in the MAWTS-1 Course Catalog and applicable directives.

LAAD 7204 INSTRUCTOR DESIGNATIONS (5000 Phase)		
DESIGNATION	TRACKING CODE	REQUIREMENT
LAAD Enhanced Training Instructor (LETI)	DESG-6319	SCHL-6005
Basic Instructor	DESG-6320	IUT-5000, IUT-5010, IUT-5020, CERT-6001
Senior Instructor	DESG-6321	DESG-6320, IUT-5100, IUT-5110, IUT-5120, IUT-5130, SCHL-6005
Weapons and Tactics Instructor (WTI)	DESG-6322	SCHL-6000

2.5.2 Certifications. A certification refers to the evaluation process conducted during syllabus events by a designated instructor or authorized personnel for the purpose of ascertaining proficiency of an officer as a prerequisite to designation or may serve to ascertain one-time proficiency evaluation for a given position/billet.

CERTIFICATION	TRACKING CODE	REQUIREMENTS
Platoon Commander	CERT-6001	Complete 2000 phase events listed in Individual CSP Attain Table for PCDR.
Staff Officer	CERT-6002	Complete 2100 phase events listed in Individual CSP Attain Table for STFO.
Battery Commander	CERT-6003	Complete 2200 phase events listed in Individual CSP Attain Table for BCDR.

2.5.3 Qualification

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

b. Qualifications are not required for progression as a 7204, but give the ability to demonstrate and measure performance while conducting an assigned mission. Qualifications will be assigned to individuals, however it shows collective accomplishment of mission skills by the LAAD unit at a particular time and is intended to serve as a culminating event.

c. Qualifications are perishable. If a qualified individual departs the unit and another individual fills the billet, the unit must complete the requirements again for the new individual to achieve qualification. However, a subordinate billet holder may retain their qualification even if a higher individual departs the unit. An example is a platoon commander may retain his qualification even if there is a new battery commander, however the new battery commander must employ both his platoons and headquarters to achieve his own qualification.

d. Requirements for qualification must be completed every twelve months to retain the qualification.

QUALIFICATION	TRACKING CODE	REQUIREMENTS
Platoon Commander in GBAD	QUAL-6201	GBAD-3010, GBAD-3011, GBAD-3012, GBAD-3013, GBAD-3014
Staff Officer in GBAD	QUAL-6202	GBAD-3015
Battery Commander in GBAD	QUAL-6203	GBAD-3020, GBAD-3021, GBAD-3022, GBAD-3023, GBAD-3024
Platoon Commander in ABGD	QUAL-6211	ABGD-3100, ABGD-3101, ABGD-3102, ABGD-3103
Staff Officer in ABGD	QUAL-6212	ABGD-3115, ABGD-3116
Battery Commander in ABGD	QUAL-6213	ABGD-3120

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

DESIGNATION	TRACKING CODE	REQUIREMENT
Platoon Commander	DESG-6101	CERT-6001
Staff Officer	DESG-6102	CERT-6002
Battery Commander	DESG-6103	CERT-6003

2.6 LAAD 7204 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.

2.6.1 Basic POI

LAAD 7204 BASIC POI		
WEEKS	PHASE OF INSTRUCTION	UNIT
0-8	CORE SKILL INTRODUCTION TRAINING	MCD, FORT BLISS, TX
8-52	PLATOON COMMANDER	TACTICAL UNIT
52-156	STAFF OFFICER	TACTICAL UNIT
156-364	BATTERY COMMANDER	TACTICAL UNIT
VAIRES	CORE PLUS TRAINING	TACTICAL UNIT

2.6.2 Refresher POI

LAAD 7204 REFRESHER POI		
WEEKS	PHASE OF INSTRUCTION	UNIT
12	PLATOON COMMANDER	TACTICAL UNIT
12	STAFF OFFICER	TACTICAL UNIT
24	BATTERY COMMANDER	TACTICAL UNIT

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

The majority of this LAAD syllabus is academic training and requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with the Ground Combat Element (GCE) is mandatory in the development of a LAAD officer.

2.7.1 Environmental Conditions Matrix

Environmental Conditions	
Code	Meaning
D	Shall be conducted during hours of daylight: (by exception - there is no use of a symbol)
N	Shall be conducted during hours of darkness, may be aided or unaided
N*	Shall be conducted during hours of darkness must be flown unaided
(N*)	May be conducted during hours of darkness - If conducted during hours of darkness must be flown unaided

(N)	May be conducted during darkness – If conducted during hours of darkness; may be flown aided or unaided
NS	Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices
(NS)	May be conducted during darkness – If conducted during hours of darkness; must be flown with Night Vision Devices
Note – If the event is to be conducted in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

2.7.2 Device Matrix

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

2.7.3 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	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/CP by initial POI assignment are re-assigned to the M POI to maintain proficiency.

2.7.4 Event Terms

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

2.8 ACADEMIC TRAINING

Academic training shall be conducted for each phase/stage of the syllabus. Where indicated, standardized academic training materials exist and may be obtained from the sponsoring activity.

External academic courses of instruction required and available to complete the syllabus are listed below:

Course Name	Location	T&R Code	CID/ CIN	PCDR	STFO	BCDR
LAAD Enhancement Training Instructor Course (LETI)	MCAS Yuma, AZ	SCHL-6005	N/A	B	-	-
Multi-TDL Advanced Joint Interoperability Course (MAJIC)	Ft McPherson, GA	SCHL-6021	A36L6Z1	B	-	-
Joint Air Operation Center Command and Control (JAOC2C) Course	Hurlburt Field, FL	SCHL-6015	F19L2W2	-	B	
Weapons and Tactics Instructor Course (WTI)	MCAS Yuma, AZ	SCHL-6000	M14P2A1	-	B	B
Antiterrorism Officer Advanced Course	Ft Leonard Wood, MO	SCHL-6077	9E-F4/ 950-F3	-	B	B

References. References provided in appendix C should be utilized to ensure safe and standardized training procedures, performance standards, grading criteria and equipment operations.

2.9 CORE SKILL INTRODUCTION PHASE (1000)

2.9.1 Purpose. This phase provides entry-level instruction to develop the basic skills necessary for a student to meet the requirements to be assigned the MOS 7204, Low Altitude Air Defense (LAAD) Officer. This training is completed upon graduation from the Basic LAAD Officer Course, Marine Corps Detachment (MCD), Fort Bliss, TX.

2.9.1.1 Prerequisite. None.

2.9.1.2 Stages. The following stage is included in the Core Skill Introduction Phase of training.

PAR NO.	STAGE NAME	ABBREV
2.9.3	BASIC LAAD OFFICER TRAINING	BLDO

2.9.2 Basic LAAD Officer Training (BLDO)

2.9.2.1 Purpose. To train students in entry level skills and provide them with a general working knowledge on the characteristics, capabilities, limitations, and operations of LAAD related systems and equipment that LAAD officers are required to plan for and employ.

2.9.2.2 General

Prerequisite. Must possess a secret security clearance, normal color vision, 20/20 vision (may be correctable to 20/20 with eye glasses or contacts lenses, cannot be left eye dominant, not less than 64 inches in height, and must be a male U.S. citizen.

Crew Requirements. Training will be executed as individual training as dictated by the conditions listed for each event.

Academic Training. Appropriate academic training will be IAW approved Basic LAAD Officer Course POI.

Live and Simulator Event Training. 45 events, 197.0 hours.

BLDO-1000 3.0 B,E ACADEMICS G

Goal. State the capabilities and limitations of the Stinger missile system (Basic/RMP).

Requirement. In an academic setting, without the aid of reference, the student will understand the capabilities and limitations of the Stinger missile system (Basic/RMP). They will state or identify all of the following within each group:

Group A

- (1) Maximum target velocity.
- (2) Maximum speed of the missile.
- (3) Types of heat and light sources tracked by the missile and the effects from the environment.

Group B

- (1) Maximum range of the missile.
- (2) Inner launch boundary.
- (3) Firing angle and position limitations.
- (4) Target aircraft categories that the missile may engage.
- (5) Gyro field of view.

Performance Standard. The student is required to pass an exam with a minimum of 80% for all items in Group A, and a minimum of 100% for all items in Group B.

Reference. FM 44-18-1A, Basic I&KP instructor publication, and RMP I&KP instructor publication.

BLDO-1001 .5 B,E (1) FHT S,L

Goal. Inspect a Stinger missile.

Requirement. In an academic setting, without the aid of reference, the student will conduct the thirteen critical checks to inspect a training Stinger missile. The following equipment will be provided: One Field Handling Trainer (FHT), training grip-stock, and a dummy BCU (not inserted).

- (1) Blowout disk.
- (2) Squib leads.
- (3) Launch tube.
- (4) Humidity indicator.
- (5) IR window.
- (6) Range ring.
- (7) Rear sight reticle.
- (8) Acquisition indicators (state safety precaution before continuing)
- (9) Safety and actuator switch.
- (10) Un-cage bar.
- (11) Firing trigger.
- (12) Latch mechanism.
- (13) Battery Coolant Unit (BCU).
 - (a) BCU well on grip-stock.
 - (b) BCU heat sensitive indicator.
 - (c) BCU burst disc diaphragm.
 - (d) BCU needle.
 - (e) BCU contact rings.

Performance Standard. Without error state or list each of the events listed above.

Reference. FM 44-18-1 and TM 9-1425-429-12.

BLDO-1002 .5 B,E (2) FHT S,L

Goal. Convert a Stinger missile round to a ready round.

Requirement. During a practical application exercise and within three minutes, the student, given a FHT Stinger missile round, will convert a Stinger missile round to a ready round.

- (1) Evaluator will provide one FHT with grip-stock, dummy BCU, and IFF interrogator, and one FHT missile round with second dummy BCU, to simulate a ready round and missile round.
- (2) The student begins the task with the presumed expended ready round on his shoulder and the antenna up. The missile round is located nearby with the additional dummy BCU not inserted.
- (3) The evaluator will inform the student, who has been given a FHT ready round with IFF interrogator, that he has fired his ready round and will prepare to engage multiple targets.
 - (a) Removes dummy BCU.
 - (b) Folds antenna.
 - (c) Disconnects IFF interconnecting cable from grip-stock.
 - (d) Places weapon on ground with grip-stock up.

- (e) Disengages grip-stock latch.
- (f) Separates grip-stock from launch tube.
- (4) Convert the missile round it to a weapon round as prescribed in references.
 - (a) Removes the grip-stock connector protective cover from the new missile round.
 - (b) Engages grip-stock pin to missile round hinge.
 - (c) Engages grip-stock latch and states that the conversion to a weapon round is complete.
- (5) Before converting to a ready round, the student must state that he has completed the conversion to a weapon round.
- (6) The student will convert the weapon round to a ready round by inserting a dummy BCU and states that ready round conversion is complete.

Performance Standard. The student will convert a training Stinger missile round to a ready round per the references within three minutes.

Reference. FM 44-18-1 and TM 9-1425-429-12.

BLDO-1003 1.0 B,E ACADEMICS G

Goal. Understand hang-fire, misfire, and dud procedures for the Stinger missile.

Requirement. During an exam, the student will correctly state the proper hang-fire, misfire, and dud procedures for a Stinger weapon.

- (1) Hang-fire. BLDO will continue to track the target for an additional 3 to 5 seconds, keeping firing trigger and un-cage bar depressed.
- (2) Misfire:
 - (a) Immediately removes the BCU with left hand and does not point towards skin. BLDO will remove the IFF inter-connecting cable from the grip-stock.
 - (b) Places the weapon in the dud pit 50 meters from firing position, having the missile positioned so that both ends are away from personnel, stationing the front of the missile elevated down range approximately 20 degrees. The gunner will step away from the missile by not stepping in front of, over, or behind the weapon.
 - (c) Marks the location of the weapon so that it can be observed from a safe location.
 - (d) The gunner will step away from the missile by not stepping in front of, over, or behind the weapon.
 - (e) Evacuates personnel to a distance no less than 1200 feet. Establishes a guard and maintains observation of the missile until destroyed.
 - (f) Notifies EOD of the situation immediately and of the initial trigger pull to identify a 30 minute lapse before EOD personnel may move the misfired missile, if required.
- (3) DUD (Eject Only):
 - (a) Marks the location of the dud so that it can be observed from a safe location.

- (b) Evacuates personnel to a distance no less than 1200 feet. Establishes a guard and maintains observation of the missile until destroyed.
- (c) Notifies EOD immediately of the situation and of the initial trigger pull to identify a 30 minute lapse before EOD personnel may move the eject only missile, if required. Non-EOD personnel may approach the missile after a 60 minute time lapse.

Performance Standard. Without error state or list each of the events listed above.

Reference. FM 44-18-1, TM 9-1425-429-12, and MCRP 3-25.10.

BLDO-1004 4.0 B,E (1) COMPLETE IFF SYSTEM G

Goal. Understand the LAAD IFF operating system and subsystems.

Requirement. The student will understand the IFF system and subsystem utilized in the LAAD BN. They will state or identify:

- (1) The purpose of the AN/GSX-1.
- (2) The purpose of the Data Transfer Device (DTD).
- (3) The purpose of the AN/PPX-3A/B and the difference between the two variants.
- (4) The purpose of the AN/KIR-1C.
- (5) How to zeroize the Data Transfer Device (DTD), AN/PPX-3A/B, and the AN/KIR-1C.
- (6) The IFF mode responses and how long codes may be utilized before superseding.
- (7) The AN/PPX-3A/B battery life.
- (8) The software/tape used for IFF code.
- (9) The range of the IFF when utilized with the Stinger missile obstructed and unobstructed.

Performance Standard. Without error state or list each of the events listed above.

Reference. MCRP 3-25.10.

BLDO-1005 1.0 B,E (1) SNS L

Goal. Operate the Stinger Night Sight (SNS).

Requirement. The student, during a practical application exercise, will be given a SNS with all SL-3 components and will mount, operate and dismount the equipment on a Tracking Head Trainer (THT).

- (1) Install battery/power source.
- (2) Mount the SNS on the THT.
- (3) Turn the power switch to the on position.
- (4) Adjust settings on the SNS.
- (5) Turn the power switch to the off position.
- (6) Dismount the SNS from the THT.

Performance Standard. The student will, in a dark setting, correctly mount the SNS on a training Stinger missile and operate the SNS.

Reference. TM 09688AA-10&P (AN/PAS-18) or replacement NET SNS publication.

BLDO-1006 8.0 B,E (2) ORGANIC VHF RADIOS L/S

Goal. Operate VHF Communications.

Requirement. During a practical application exercise, the student, given a communication requirement, will prepare and operate the SINGARS in single channel (SC) and in Frequency Hopping (FH) modes. The following equipment is provided: a data fill/transfer device with FH data and SC data, a distant communication station already established, 1 SINGARS RT SL-3 complete, and 1 power supply for the SINGARS.

- (1) State operational characteristics and features of radio set.
 - (a) State the frequency range of the SINGARS.
 - (b) State the two batteries used by the SINGARS.
 - (c) State the rated range of the SINGARS in Low, Med, Hi & PA
 - (d) State the different nomenclature variants of the SINGARS used in a LAAD BN.
 - (e) State the difference in rated range of each antenna provided with a SL-3 complete SINGARS.
- (2) State the controls and indicators of the radio set.
- (3) Identify and perform self tests and measurements.
- (4) Set up, program, and operate the radio set.
 - (a) Install batteries.
 - (b) Install antenna.
 - (c) Connect handset.
 - (d) Conduct a self-test of the SINGARS.
 - (e) Load a crypto fill.
 - (f) Load GPS time
 - (g) Load single channel SC frequency.
 - (h) Set SINGARS to appropriate power level.
 - (i) Establish communication with distant station in SC mode.
 - (j) Establish communication with distant station in FH mode.
 - (k) Show how to offset a SC frequency.
 - (l) Zeroize crypto fill in SINGARS.

Performance Standard. The standard is met when a secure radio check is made in both SC and FH modes.

Reference. FM 24-18, FM 24-19, ACEOI, TM 11-5820-890-10-1, TM 11-5820-890-10-2, and TM 11-5820-890-10-4.

External Syllabus Support. ACEOI or training frequencies and/or a frequency hopping load set.

BLDO-1007 1.0 B (2) ORGANIC VHF RADIOS L

Goal. Troubleshoot VHF Communications.

Requirement. During a practical application exercise, the student will perform operator's troubleshooting on SINCGARS, given a SINCGARS operating on a tactical or training net. The student will:

- (1) Check power source.
- (2) Check man-pack function button configuration.
- (3) Check vehicular function button configuration.
- (4) Run RT self-tests (BIT).
- (5) Check signal display.
- (6) Check side-tone.
- (7) Check surrounding environment for obstacles/interference.
- (8) Check distance between each transmitting/receiving station.
- (9) Check crypto fill.

Performance Standard. The standard is met when the student correctly identifies the fault and establishes communication with a designated station.

Prerequisite. BLDO-1006.

Reference. FM 24-18, TM 11-5820-890-10-1, TM 11-5820-890-10-2, TM 11-5820-890-10-3, and TM 11-5820-890-10-4.

External Syllabus Support. ACEOI or training frequencies and/or a frequency hopping load set.

BLDO-1008 14.0 B,E (2) ORGANIC HF RADIOS L

Goal. Operate HF Communications.

Requirement. During academic and practical application exercises, the student, given a communication requirement, will prepare and operate HF communications. The following equipment is provided: a data fill/transfer device, a distant communication station already established, and a HF Communication set SL-3 complete. The student will:

- (1) State operational characteristics and features of a radio set.
- (2) State the controls and indicators of the radio set.
- (3) Identify and perform self tests and measurements.
- (4) Set up, program, and operate the radio set in both secure and unsecure modes.
 - (a) Install batteries.
 - (b) Install antenna.
 - (c) Connect handset.
 - (d) Load a crypto fill.
 - (e) Load frequencies.
 - (f) Establish communication with distant station in unsecure mode.
 - (g) Establish communication with distant station in secure mode.
 - (h) Zeroize crypto fill

Performance Standard. The standard is met when a secure radio check is made and sustained communication has been maintained throughout the exercise.

Reference. TM 108-22A-10/1.

External Syllabus Support. ACEOI or training frequencies.

BLDO-1009 2.0 B,E (2) ORGANIC HF RADIOS L

Goal. Troubleshooting HF communications.

Requirement. During a practical application exercise, the student will perform operator's troubleshooting on HF communications:

- (1) Check power source.
- (2) Check function button configuration.
- (3) Check vehicular function button configuration. (if applicable)
- (4) Run RT self-tests (BIT).
- (5) Check signal display.
- (6) Check surrounding environment for obstacles/interference.
- (7) Check distance between each transmitting/receiving station.
- (8) Check crypto fill.

Performance Standard. The standard is met when the student correctly identifies the fault and establishes communication with a designated station.

Prerequisite. BLDO-1008.

Reference. TM 108-22A-10/1.

External Syllabus Support. ACEOI or training frequencies

BLDO-1010 1.0 B,E (2) ORGANIC VHF/ HF RADIOS L

Goal. Perform basic communication skills.

Requirement. The student will perform basic communication skills during a practical application exercise in an academic environment with the aid of either VHF or HF communications equipment or an AKAC 1553. The student, given a communication requirement, will:

- (1) Establish communications with a distant station.
- (2) Request current Air Defense Status Message.
- (3) Authenticate the station providing the current Air Defense Status Message.
- (4) Send current position to distant station encrypted.
- (5) Pass Engagement Report to distant station.
- (6) Receive encrypted message from distant station and decrypt.
- (7) Receive, process and transmit the following reports
 - (a) POSREP
 - (b) CASEVAC/ MIST
 - (c) Engagement Report
 - (d) EOD 9 Line
 - (e) Call For Fire
 - (f) SALUTE Report
 - (g) Leaker Report
 - (h) Vehicle Recovery Report

Performance Standard. Perform this event in compliance with current authentication procedures, and encryption/decryption procedures utilizing AKAC 1553.

Prerequisite. BLDO-1006, BLDO-1007, BLDO-1008, and BLDO-1009.

Reference. MCRP 3-25.10, FM-25.26, and EKMS-1.

BLDO-1011 3.5 B,E ACADEMICS G

Goal. Understand proper handling of CMS materials.

Requirement. In an academic environment and without the aid of reference, the student will understand how to properly store, use, and destroy CMS materials:

- (1) Identify CMS software and corresponding equipment.
- (2) State proper handling considerations for CMS material in a tactical environment.
- (3) State proper transportation considerations for CMS materials in a tactical and non-tactical environment.
- (4) State destruction procedures IAW the reference.
- (5) Define "Two Person Integrity (TPI)."

Performance Standard. Without error explain how to properly store use and destroy CMS materials.

Reference. EKMS 1.

BLDO-1012 1.0 B,E (1) IFF SYSTEM, (1) GPS, (1) SINGARS G

Goal. Understand the emergency destruction procedures for the Stinger missile and all Stinger support equipment.

Requirement. In an academic setting, the student will state the desired methods for destroying the Stinger missile and all Stinger support equipment. The student will state or identify:

- (1) Appropriate safety precautions.
- (2) Destruction methods of the Stinger missile.
 - (a) Destroy the missile(s) by firing it in the direction of the enemy (preferred method). Select a self-destruction point which will cause the greatest destruction to the enemy and will not hinder or endanger friendly forces ensuring all parts essential to the weapon round operation are destroyed beyond operation.
 - (b) Smash seeker section of the missile(s) and destroy the weapon(s) by burning ensure all parts essential to the weapon-round operation are destroyed beyond operation using available equipment as prescribed in the references.
 - (c) Smash seeker section of the missile(s) and destroy the weapon(s) with demolition by appropriate trained personnel (i.e. EOD, Combat Engineers, etc) ensure all parts essential to the weapon-round operation are destroyed beyond operation using available equipment as prescribed in the references.
- (3) Zeroize crypto fills:

- (a) IFF.
 - (b) VHF Communications equipment.
 - (c) HF Communications equipment.
 - (d) GPS.
- (4) Destroy ancillary equipment by burning, demolition, or small arms fire. Ancillary equipment includes:
- (a) IFF.
 - (b) VHF Communications equipment.
 - (c) HF Communications equipment.
 - (d) GPS.
 - (e) M240B Medium Machine Gun.
 - (f) M2. 50 Cal Heavy Machine Gun.
 - (g) RTU (RAM Card).

Performance Standard. The student will, during an exam, state the proper emergency destruction procedures for the Stinger missile and all Stinger support equipment to prevent enemy use.

Reference. MCRP 3-25.10, MCWP 3-25.10 and TM 9-1425-429-12 (Ch 12)

BLDO-1013 12.0 B,E (1) GPS UNIT L

Goal. Operate a military Global Positioning System (GPS).

Requirement. During a practical application exercise, the student, given a military GPS, a map, and a tactical scenario, will successfully navigate under real world conditions.

- (1) Initialize the military GPS.
- (2) View current position display.
- (3) Mark current position as a waypoint.
- (4) Enter additional waypoints.
- (5) Perform navigation operations.
- (6) State how to zeroize the GPS.
- (7) Locate the map datum horizontal and spheroid

Performance Standard. Utilizing a military GPS, the student will correctly input required data and navigate to/from five designated distant navigational points (the start/end point is one of the five points).

Reference. TM 09880C-OR.

External Syllabus Support. Approved local training area.

BLDO-1014 4.0 B,E ACADEMICS G

Goal. Understand operational terms, unit symbols, and graphic control measures.

Requirement. The student will understand operational terms, unit symbols, and graphic control measures with the aid of a locally produced scenario; 1:50,000 map, 1:250,000 map, overlays, and map pens. The following information will be included:

- (1) LAAD symbols for Platoon and Section locations

- (2) LAAD symbols for subordinate and higher locations
- (3) Symbols for adjacent and supporting/supported units locations
- (4) Maneuver and Command and Control:
 - (a) Higher and adjacent unit boundaries.
 - (b) Forward Line of Troops.
 - (c) Assembly Areas.
- (5) Fire Support Coordination Measures:
 - (a) Fire Support Coordination Line.
 - (b) Battlefield Coordination Lines.
 - (c) Kill-boxes.
 - (d) Restricted Fire Areas.
 - (e) No Fire Areas.
- (6) Airspace Coordination Measures:
 - (a) Air control points F/W and R/W.
 - (b) Close Air Support stacks.
 - (c) Aerial refueling tracks.
 - (d) Minimum Risk Routes.
 - (e) Restricted Operating Zones for UAS's.
- (7) Air Defense Control Measures:
 - (a) SHORAD engagement Zones.
 - (b) Base Defense Zones.
 - (c) Missile Engagement Zones.
 - (d) Fighter Engagement Zones.
 - (e) Combat Air Patrol Locations.
 - (f) TBM warning grid system.

Performance Standard. The student will prepare and present a 1:50,000 maps and 1:250,000 maps which display the information contained in the locally produced scenario to 80% accuracy.

Reference. MCRP 5-2A.

BLDO-1015 4.0 B,E ACADEMICS G

Goal. Understand LAAD employment in an air defense role.

Requirement. In an academic setting, without the aid of reference, the student will be able to conduct the following:

- (1) Define the air defense employment guidelines.
- (2) Define the air defense employment principles.
- (3) Define the terms used to prioritize air defense assets.
- (4) Define command relationships.
- (5) Define the doctrinal four weapon applications.
- (6) Define the implied task of Defense of Expeditionary Strike Group Posture (DEP).
- (7) Define the Air Defense Weapons Conditions (ADWC).
- (8) Define the air defense States Of Alert (SOA).
- (9) Define the air defense Weapons Control Statuses (WCS).
- (10) State or identify the basic information required in order to properly employ a LAAD unit/element:
 - (a) OPCODE Authority.
 - (b) ADCON Authority.
 - (c) Mission.
 - (d) Rules of Engagement.

Performance Standard. Without error, list or state the LAAD employment requirements.

Reference. MCRP 3-25.10.

BLDO-1016 2.0 B,E ACADEMICS G

Goal. Identify manual cross-tell early warning information.

Requirement. The student will perform manual cross-tell procedures in both Cartesian Coordinate Reference System (CCRS) and Polar Coordinate Reference System (PCRS), when given a blank map and a Cartesian Coordinate Reference Point (CCRP). The student will properly create the CCRS and PCRS on the map and convert cueing information to a map location. The student will:

- (1) State how to properly read both CCRS and PCRS.
- (2) Utilize the Cartesian Coordinate Reference Point (CCRP) to create CCRS and PCRS.
- (3) Plot five received early warning cues in CCRS and PCRS.
- (4) State the purpose of the CCRP.

Performance Standard. The student will create a CCRS and PCRS on a map and convert a minimum of 4 out of 5 early warning cues for both systems.

Reference. MCRP 3-25.10.

BLDO-1017 1.0 B,E ACADEMICS G

Goal. Understand the structure and responsibilities of the Low Altitude Air Defense (LAAD) BN.

Requirement. In an academic setting, the student will understand the LAAD Battalion structure and responsibilities of support sections within the Headquarters and Services Battery.

- (1) State the organizational structure of the LAAD BN, to include number of batteries, platoons, sections, and teams per unit.
- (2) State the smallest tactical unit within a LAAD BN/BTRY.
- (3) State the smallest tactical element in a LAAD BN/BTRY.
- (4) State the geographical location of all LAAD units.
- (5) State primary and secondary missions of LAAD BN.
- (6) State the doctrinal radio nets organic to the LAAD BN.
- (7) State the staff sections of the LAAD BN and their functions.
- (8) State the levels of support the LAAD BN/BTRY provides to MAGTF.

Performance Standard. Without error, state each of the responsibilities of the Low Altitude Air Defense (LAAD) BN as listed above.

Reference. MCRP 3-25.10.

BLDO-1018 1.0 B,E ACADEMICS G

Goal. Understand Marine Air Command and Control System (MACCS).

Requirement. Given the references the student will demonstrate an understanding of MACCS units, systems, capabilities and limitations.

Performance Standard. Without error state or list MACCS units, systems, capabilities and their limitations.

Reference. MCWP 3-25.3.

BLDO-1019 1.0 B,E ACADEMICS G

Goal. Understand the Tactical Air Command Center (TACC).

Requirement. Given the references the student will demonstrate an understanding of the TACC's systems, capabilities and limitations.

Performance Standard. Without error state the TACC's systems, capabilities and their limitations.

Reference. MCWP 3-25.4, TACC Handbook.

BLDO-1020 1.0 B,E ACADEMICS G

Goal. Understand the Direct Air Support Center (DASC).

Requirement. Given the references the student will demonstrate an understanding of the DASC's systems, capabilities and limitations.

Performance Standard. Without error state the DASC's systems, capabilities and their limitations.

Reference. MCWP 3-25.5, DASC Handbook.

BLDO-1021 1.0 B,E ACADEMICS G

Goal. Understand the Tactical Air Operation Center (TAOC).

Requirement. Given the references the student will demonstrate an understanding of the TAOC's systems, capabilities and limitations.

Performance Standard. Without error state the TAOC's systems, capabilities and their limitations.

Reference. MCWP 3-25.7, TAOC Handbook.

BLDO-1022 1.0 B,E ACADEMICS G

Goal. Understand the Marine Air Traffic Control (MATC).

Requirement. Given the references the student will demonstrate an understanding of the MATC's systems, capabilities and limitations.

Performance Standard. Without error state the MATC's systems, capabilities and their limitations.

Reference. MCWP 3-25.8, MATC Detachment Handbook.

BLDO-1023 1.0 B,E ACADEMICS G

Goal. Understand the Marine Unmanned Aerial Vehicle Squadron (VMU).

Requirement. Given the references the student will demonstrate an understanding of the VMU's systems, capabilities and limitations.

Performance Standard. Without error state the VMU's systems, capabilities and their limitations.

Reference. MCWP 3-42.1, UAS Operations.

BLDO-1024 1.0 B,E ACADEMICS G

Goal. Understand the Marine Wing Communications Squadron (MWCS).

Requirement. Given the references the student will demonstrate an understanding of the MWCS's systems, capabilities and limitations.

Performance Standard. Without error state the MWCS's systems, capabilities and their limitations.

Reference. MCWP 3-25.3, MACCS Handbook, MCWP 3-40.3 MAGTF Communications System (Ch 2).

BLDO-1025 1.0 B,E ACADEMICS G

Goal. Understand Control of Aircraft and Missiles.

Requirement. Given the references the student will demonstrate an understanding of Control of Aircraft and Missiles.

Performance Standard. Demonstrate basic knowledge of Control of Aircraft and Missiles.

Reference. MCWP 3-25 Control of Aircraft and Missiles.

BLDO-1026 1.0 B,E ACADEMICS GL

Goal. Understand Offensive Air Support.

Requirement. Given the references the student will demonstrate an understanding of Offensive Air Support.

Performance Standard. Demonstrate basic knowledge of Offensive Air Support.

Reference. MCWP 3-23 Offensive Air Support.

BLDO-1027 1.0 B,E ACADEMICS G

Goal. Understand Assault Support.

Requirement. Given the references the student will demonstrate an understanding of Assault Support.

Performance Standard. Demonstrate basic knowledge of Assault Support.

Reference. MCWP 3-24 Assault Support.

BLDO-1028 1.0 B,E ACADEMICS G

Goal. Understand Air Reconnaissance.

Requirement. Given the references the student will demonstrate an understanding of Air Reconnaissance.

Performance Standard. Demonstrate basic knowledge of Air Reconnaissance.

Reference. MCWP 3-26 Air Reconnaissance.

BLDO-1029 1.0 B,E ACADEMICS G

Goal. Understand Electronic Warfare.

Requirement. Given the references the student will demonstrate an understanding of Electronic Warfare.

Performance Standard. Demonstrate basic knowledge of Electronic Warfare.

Reference. MCWP 3-40.5 Electronic Warfare.

BLDO-1030 1.0 B,E ACADEMICS G

Goal. Understand Anti-Air Warfare.

Requirement. Given the references the student will demonstrate an understanding of Anti-Air Warfare.

Performance Standard. Demonstrate basic knowledge of Anti-Air Warfare.

Reference. MCWP 3-22 Anti-Air Warfare.

BLDO-1031 1.0 B,E ACADEMICS G

Goal. Understand Aviation Ground Support.

Requirement. Given the references the student will demonstrate an understanding of Aviation Ground Support.

Performance Standard. Demonstrate basic knowledge of Aviation Ground Support.

Reference. MCWP 3-21.1 Aviation Ground Support.

BLDO-1032 2.0 B,E ACADEMICS G

Goal. Understand Intelligence Preparation of the Battlefield.

FM 24-18, FMFM 3-1, and MCO 3500.27.

BLDO-1034 20.0 B,E ACADEMICS S,L

Goal. Conduct Aircraft Identification.

Requirement. In an academic environment, the student, when given an examination of various aircraft, and with the aid of audio visual equipment, will correctly identify 50 common aircraft by utilizing the Wing, Engine, Fuselage, and Tail (WEFT) technique.

- (1) U.S manned aircraft
- (2) Foreign country owned manned aircraft

Performance Standard. Given an aircraft recognition examination consisting of 50 manned aircraft, the student will accurately identify in a timeframe of 3 seconds per aircraft and a 5 second delay between aircraft images.

- (1) U.S manned aircraft with 100% accuracy.
- (2) Foreign country owned manned aircraft with 80% accuracy.

Reference. FM 3-01.80.

BLDO-1035 16.0 B,E IMTS S,L

Goal. Engage aircraft with the Stinger missile system in the IMTS.

Requirement. The student, during a performance based evaluation, utilizing the Improved Moving Target Simulator (IMTS) or the Stinger Troop Proficiency Trainer (STPT), and using proper operating procedures and firing techniques will engage five jet aircraft, five non-jet propeller driven aircraft, and five helicopters without shooting down friendly aircraft. Scenarios will be pre-approved by the LAAD Officer Course Staff or LAAD Gunner Course staff.

- (1) Track and range target (i.e. time count method).
- (2) Activate weapon and obtain an acquisition tone.
- (3) Insert correct super elevation and lead reticle.
- (4) Hold trigger and un-cage bar 3 to 5 seconds to fire weapon and mitigate hang-fire.
- (5) Meet requirements performance indicator after each engagement.

Performance Standard. The student will successfully engage at minimum:

- (1) Three jet aircraft,
- (2) Three non-jet propeller driven aircraft,
- (3) Three helicopters

Engagements of friendly aircraft will result in a failure of the evaluation. All students will be given the same scenarios maintained at the LAAD Gunner Course.

Prerequisite. BLDO-1000, BLDO-1001, BLDO-1002, BLDO-1003, BLDO-1004.

Reference. FM 44-18-1, FM 44-18-1A, and TM 9-1425-429-12.

External Syllabus Support. Use of the Army IMTS facility and support personnel.

BLDO-1036 8.0 B,E (1) STINGER MSL/ (1) AIRCRAFT DRONE L

Goal. Engage a live aerial target with a live Stinger missile.

Requirement. During a live firing exercise, the student, given a Stinger missile, will engage an aerial target.

- (1) Track and range target.
- (2) Activate weapon and obtains an acquisition tone.
- (3) Insert correct super elevation and lead reticle.
- (4) Hold trigger and un-cage bar 3 to 5 seconds to fire weapon.
- (5) Remove BCU from the grip-stock immediately.

Performance Standard. Utilizing proper operating procedures and firing techniques, the student will engage an aerial target.

Prerequisite. BLDO-1035.

Reference. FM 44-18-1 and TM 9-1425-429-12.

Ordnance

- (1) PN-15 or PN-16 Stinger grip-stocks (Basic/RMP), and
- (1) of the following Stinger missile types: PL-89, PL-90, PL-93.

External Syllabus Support. Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.

BLDO-1037 4.0 B,E (1) AMANPADS L

Goal. Establish an AMANPADS team position.

Requirement. The student, during a performances based evaluation, will be given a fully equipped A-MANPAD vehicle with team equipment, a tactical scenario, the assistance of another team member, and will establish a tactical Stinger team position.

- (1) Establish communication with Section Leader.
- (2) Obtain current ADWC, SOA, WC, and all pertinent information pertaining to the mission.
- (3) Establish primary firing position.
- (4) Place 2 ready rounds at the primary firing position.
- (5) One team member begins searching and scanning IAW current ADWC, SOA, WC.
- (6) One member identifies the given SOF and PTL.
- (7) Establish secondary firing position 10-20 meters from primary firing position with identified SOF and PTL.
- (8) Emplace the vehicle approximately 15 meters from primary firing position utilizing cover and concealment.
- (9) Establish 2-man fighting position in vicinity between the primary and secondary firing positions.

- (10) Establish dud pit approximately 50 meters from primary firing position in a manner not to interfere with air defense mission or force protection.
- (11) Conduct a map study identifying an alternate Stinger team position 500 - 1000 meters away from primary firing position.
- (12) Create range cards for each weapon system at the primary position.
- (13) Commence team operations.
- (14) Cover and concealment/passive air defense measures.

Performance Standard. The student will properly establish a tactical Stinger team position by completing all performance steps IAW the reference.

Prerequisite. BLDO-1000, BLDO-1006, BLDO-1007, BLDO-1010, BLDO-1011, BLDO-1012, BLDO-1013, BLDO-1015, BLDO-1016, BLDO-1017.

Reference. MCRP 3-25.10.

BLDO-1038 4.0 B,E (1) TACTICAL VEHICLE, LOADOUT FOR A SECTION LEADER L

Goal. Establish a LAAD Section Leader position.

Requirement. The student, during a performances based evaluation, will be given a fully equipped section leader vehicle, a tactical scenario, the assistance of another student, and will establish a tactical LAAD section leader position.

- (1) Conduct site selection analysis.
- (2) Establish communication with Platoon Commander and teams.
- (3) Obtain current ADWC, SOA, WC, and all pertinent information pertaining to the mission.
- (4) Obtain position reports from subordinate LAAD teams.
- (5) Construct and update status board.
- (6) Update section leader 1:50,000 and JOG AIR maps.
- (7) Cover and concealment/passive air defense measures.

Performance Standard. The student will properly establish a tactical section leader position by completing all performance steps IAW the reference.

Prerequisite. BLDO-1000, BLDO-1006, BLDO-1007, BLDO-1008, BLDO-1009, BLDO-1010, BLDO-1011, BLDO-1012, BLDO-1013, BLDO-1015, BLDO-1016, BLDO-1017, BLDO-1037.

Reference. MCRP 3-25.10.

BLDO-1039 6.0 B,E (1) MRC-148, TACTICAL LOADOUT FOR PLATOON COMMANDER L

Goal. Establish a LAAD platoon command post.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, establish a command post, considering the following:

- (1) Conduct site selection analysis.
- (2) Establish communication with higher headquarters and section leaders.

- (3) Obtain current ADWC, SOA, WC, and all pertinent information pertaining to the mission.
- (4) Obtain position reports for all SLs and teams.
- (5) Construct and update status board.
- (6) Update 1:50,000 and JOGAIR maps.
- (7) Cover and concealment/passive air defense measures.

Performance Standard. The LAAD officer will establish a command post per the unit SOP, at a minimum the requirements list above will be considered.

Prerequisite. BLDO-1000, BLDO-1006, BLDO-1007, BLDO-1008, BLDO-1009, BLDO-1010, BLDO-1011, BLDO-1012, BLDO-1013, BLDO-1015, BLDO-1016, BLDO-1017, BLDO-1037, BLDO-1038.

Reference. MCWP 3-25.10.

BLDO-1040 1.0 B,E ACADEMICS G

Goal. Understand fundamentals of Tactical Data Links.

Requirement. In an academic setting, without the aid of reference, the student will be able to conduct the following:

- (1) State the characteristics of Link 11.
- (2) State the characteristics of Link 11B.
- (3) State the characteristics of Link 16.
- (4) State the characteristics of Joint Range Extension (JRE)
 - (a) JREAP A
 - (b) JREAP B
 - (c) JREAP C

Performance Standard. Without error, state the characteristics of the listed tactical data links.

Reference. CJCSM-6120.01, Joint Multi-TDL Operating Procedures Manual (JMTOP).

2.10 CORE SKILL PROFICIENCY TRAINING (2000)

2.10.1 Purpose. To train LAAD Officers to become proficient LAAD Platoon Commanders (PCDR), Staff Officers (STFO), Battery Commanders (BCDR) by developing requisite skills and working knowledge relating to the characteristics, capabilities, limitations, and operation of LAAD related systems and equipment that LAAD Officers are required to plan for and employ. To develop proficiency in LAAD employment and operations, in order to effectively execute a tactical mission as a leader of a LAAD unit. To develop knowledge and proficiency of LAAD tactics, techniques, and procedures (TTPs) while conducting Ground Based Air Defense (GBAD). Upon completion of this phase, the LAAD officer becomes eligible for the various stage certifications.

2.10.2 General

2.10.2.1 Prerequisite. Complete core skill introduction training.

2.10.2.2 Core Skill Stages

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PAR NO.	STAGE NAME	ABBREV
2.10.3	PLATOON COMMANDER	PCDR
2.10.4	STAFF OFFICER	STFO
2.10.5	BATTERY COMMANDER	BCDR
2.10.6	COMMAND AND CONTROL SYSTEMS	C2SYS

2.10.2.3 Administrative notes. The recommended career progression is to transition from PCDR to STFO then BCDR, but due to various operational and personnel requirements this may not be possible. Therefore, no certifications have been made prerequisites for advancement to any other stage.

2.10.3 Platoon Commander (PCDR)

Purpose. To train the LAAD officer to employ a LAAD Platoon in GBAD with organic equipment and understand basic LAAD TTPs necessary to perform LAAD platoon commander duties.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient platoon.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 30 events, 67.0 hours.

PCDR-2000 1.0 B ACADEMICS G

Goal. Understand the principles of machine gun employment.

Requirement. In an academic setting, without the aid of reference, the student will understand the tactical employment considerations of machine gun employment. The student will define:

- (1) Pairs.
- (2) Interlocking Fires.
- (3) Coordination of Fires.
- (4) Mutual Support.
- (5) Defilade.
- (6) Enfilade.
- (7) Protection.

Performance Standard. The student will incorporate principles of machine gun employment.

Reference. MCWP 3-15.1.

PCDR-2001 2.0 B (1) Map(1) GPS, (1)Compass L

Goal. Conduct day and night navigation.

Requirement. Given a current Global Positioning System (GPS), map, compass, and protractor, successfully navigate to designated locations during periods of daylight, darkness, or reduced visibility.

Performance Standard

- (1) Find 5 of 5 locations during the day using a map and compass.
- (2) Find 4 of 5 locations during times of darkness or reduced visibility using a map and compass.
- (3) Find 5 of 5 locations during the day using the current GPS.
- (4) Find 5 of 5 locations at night using current GPS.

Reference. MCO P1500.44C and TM 11-5825-291-13.

External Syllabus Support. Appropriate range/training area.

PCDR-2002 2.0 B (1) Tactical Vehicle (1) Map (1) GPS L

Goal. Perform mounted land navigation.

Requirement. The student will perform mounted land navigation during a practical application exercise with the aid of a lensatic compass, 1:50,000 military grid map, a protractor, a GPS, a licensed HMMWV driver, and a HMMWV variant. The student will:

- (1) State the kilometers/miles conversion formula.
- (3) Orient a map.
- (4) Navigate HMMWV to and locate three military grids without GPS.
- (5) Navigate a HMMWV to and locate three military grids with a GPS.
- (6) Navigate the HMMWV back to the start point.

Performance Standard. The student will correctly locate three points with a GPS and three without a GPS.

Prerequisite. PCDR-2001.

External Syllabus Support. Approved Training Area.

Reference. FM 3-25.26, MCO 11240.66D, and TM 9-2320-280-10.

PCDR-2003 1.0 B L

Goal. Properly handle CMS software (receive, safeguard, use, and proper destruction procedures).

Requirement. Given the reference and in a practical application environment, properly store, use and destroy CMS materials.

Performance Standard. Demonstrate proper handling of CMS software using the two-person integrity method by ensuring proper transportation of the software and accurately completing destruction records per the EKMS-1.

Reference. EKMS-1.

PCDR-2004 1.0 B (1) ORGANIC DATA TRANSFER DEVICE L

Goal. Operate organic communication security keying devices.

Requirement. With the aid of communicator(s), operate organic security keying devices during a practical application exercise using the below listed equipment:

- (1) AN/CYZ-10, SKL or appropriate Data Transfer Device.
- (2) Appropriate radio assets.

Performance Standard. Generate a variable, store a variable, transfer a stored variable, operate, zeroize, and pass secure communications.

Prerequisite. PCDR-2003.

Reference. (AN/CYZ-10) TM 11-5810-394-20&P.

PCDR-2005 4.0 (180) B,R (2) ORGANIC VHF RADIOS L

Goal. Establish and maintain VHF secure communications.

Requirement. During a practical application exercise, with the aid of communicator(s), and given an SL-3 complete VHF Radios, Data Transfer Device, and an OE-254 antenna, establish secure VHF communications, and construct and use a field expedient antenna.

Performance Standard. Per the references, correctly establish secure VHF voice and data communications.

Prerequisite. PCDR-2003 and PCDR-2004.

Reference. Technical Manual for organic VHF radio and DTD.

External Syllabus Support. VHF Frequencies.

PCDR-2006 4.0 (180) B,R (2) ORGANIC HF RADIOS L

Goal. Establish and maintain HF secure communications.

Requirement. During a practical application exercise, with the aid of communicator(s), and given an SL-3 complete HF Radios, Data Transfer Device, and an AS-2259 antenna, establish secure HF communications, and construct and use a field expedient antenna.

Performance Standard. Per the references, correctly establish secure HF voice and data communications.

Prerequisite. PCDR-2003 and PCDR-2004.

Reference. Technical Manual for organic HF radio and DTD.

External Syllabus Support. HF Frequencies.

PCDR-2007 4.0 (180) B,R (1) MRC-148 L

Goal. Operate the AN/MRC-148.

Requirement. During a practical application exercise, given a SL-3 complete AN/MRC-148 with ancillary keying devices, and with the aid of communicator(s), operate the AN/MRC-148.

Performance Standard. Per the references, establish communications with another station and pass secure and non-secure voice communications.

Prerequisite. PCDR-2003, PCDR-2004, and PCDR-2006.

Reference. (AN/MRC-148) TM 07749A/07743-12/1A, TM 07508A-14 and TM 11-5820-348-15.

External Syllabus Support. HF Frequencies.

PCDR-2008	1.0	(180)	B,R	TACTICAL RADIOS	L/S
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Goal. Use proper communications procedures.

Requirement. Demonstrate proper use of:

- (1) Proper radio/telephone procedures.
- (2) Use of brevity codes.
- (3) Use of tactical field message book.
- (4) Authentication.
- (5) Message encryption and decryption.
- (6) Bead-window procedures.
- (7) Gingerbread procedures.
- (8) MIJI reporting procedures.
- (9) Lost communications procedures.
- (10) Communications jamming countermeasures.
- (11) POSREP
- (12) CASEVAC/ MIST
- (13) Engagement Report
- (14) EOD 9 Line
- (15) Call For Fire
- (16) SALUTE Report
- (17) Leaker Report
- (18) Vehicle Recovery Report

Performance Standard. Given the references, a tactical radio, Authentication/Encryption sheet, and a tactical field message book, establish communications, and transmit and receive messages utilizing proper communications procedures.

Prerequisite. PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006.

Reference. MCWP 3-25.11, MCWP 3-40.3B and MCRP 3-25.10A.

External Syllabus Support. Frequency support.

PCDR-2009	0.5		B		G
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Goal. State the emergency destruction procedures for all organic command post equipment.

Requirement. Correctly state the emergency destruction procedures of the following equipment:

- (1) Stinger Missile and support equipment
- (2) Tactical Vehicle.
- (3) Communications hardware.
- (4) COMSEC material/devices.
- (5) Ammunition.
- (6) Mission essential documents.

Performance Standard. Given a materials list of all organic command post equipment, state emergency destruction established procedures.

Reference. MCWP 3-25.10 and EKMS-1.

PCDR-2010 3.0

B, E

G

Goal. Demonstrate an understanding of operational terms, unit symbols, and graphic control measures.

Requirement. Given the references, a tactical scenario, a map, and map pens, prepare and display on a map appropriate unit symbols, and graphic control measures, the following information at a minimum will be plotted:

- (1) LAAD symbols for platoon and section locations.
- (2) LAAD symbols for subordinate and higher locations.
- (3) Symbols for adjacent and supporting/supported units locations.
- (4) Maneuver and Command and Control:
 - (a) Higher and adjacent unit boundaries.
 - (b) Forward Line of Troops.
 - (c) Assembly Areas.
 - (d) Checkpoints.
 - (e) Line of departure.
 - (f) Main effort.
 - (g) Supporting efforts.
- (5) Fire Support Coordination Measures:
 - (a) Fire Support Coordination Line.
 - (b) Gun Target Lines.
 - (c) Battlefield Coordination Lines.
 - (d) Kill-boxes.
 - (e) Restricted Fire Areas.
 - (f) No Fire Areas.
- (6) Airspace Coordination Measures:
 - (a) Air control points F/W and R/W.
 - (b) Close Air Support stacks.
 - (c) Aerial refueling tracks.
 - (d) Minimum Risk Routes.
 - (e) Airborne Early Warning Tracks.
 - (f) Electronic Warfare Tracks.
 - (g) Restricted Operating Zones for UASs.
- (7) Air Defense Control Measures:
 - (a) SHORAD engagement Zones.
 - (b) Base Defense Zones.
 - (c) Missile Engagement Zones.
 - (d) Fighter Engagement Zones.
 - (e) Combat Air Patrol Locations.
 - (f) TBM warning grid system.
 - (g) Joint Engagement Zones (if applicable).

Performance Standard. Prepare and present a map that accurately displays the information received from the commander.

Reference. MCRP 5-12A, MCRP 5-12C, MCWP 3-25.10 and MCWP 3-25.11.

PCDR-2011 4.0 B (1) MAP G

Goal. Conduct a detailed Intelligence Preparation of the Battlefield (IPB).

Requirement. Given a platoon/battery level Marine Aviation Planning Problem (MAPP), the mission and a threat, and a defined area of operations, develop/brief a detailed IPB to include:

- (1) Area evaluation
- (2) Terrain and weather analysis.
- (3) Threat evaluation
- (4) Responsiveness to the threat
- (5) Enemy Air Order of Battle (AOB)
- (6) Ground Order of Battle (GOB)
- (7) Electronic Order of Battle (EOB)
- (8) Reconnaissance capabilities
- (9) Terrorist/unconventional threat.
- (10) Use Requests for Information (RFI) and Commanders Critical Information requirements needed for the mission.

Performance Standard. IAW the reference, develop and brief a detailed IPB that accurately addresses, at minimum, the above listed items.

Prerequisite. PCDR-2010.

Reference. MCRP 2-12A.

PCDR-2012 3.0 (180) B, R (1) TERRAIN MODEL L

Goal. Issue an operations order.

Requirement. Given a Battery five paragraph order, warning order, or fragmentary order, prepare and issue an OpOrd to subordinate unit leaders.

Performance Standard. Prepare and present an OpOrd that accurately disseminates the information in the original order received.

Prerequisite. PCDR-2010, PCDR-2011.

Reference. MCWP 3-25.10, MCWP 3-25.11 and FMFM 3-1.

PCDR-2013 2.0 (180) B, R (1) PLT CP EQUIP L

Goal. Establish a LAAD platoon command post.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, establish a command post, considering at a minimum the following:

- (1) Conduct site selection analysis.
- (2) Establish communication with higher headquarters and section leaders.

- (3) Obtain current ADWC, SOA, WC, and all pertinent information pertaining to the mission.
- (4) Obtain position reports for all SLs and teams.
- (5) Construct and update status board.
- (6) Update 1:50,000 and JOGAIR maps.
- (7) Cover and concealment/passive air defense measures.
- (8) Local security.
- (9) Integration with command and control agencies.

Performance Standard. The LAAD officer will establish a command post, at a minimum the requirements list above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

PCDR-2014 2.0 B G

Goal. Understand Command and Support Relationships.

Requirement. Given the references and a scenario, demonstrate an understanding of Command and Support Relationships, at minimum to include:

- (1) Operational Control.
- (2) Tactical Control.
- (3) Administrative Control.
- (4) Direct Liaison Authorized (DIRLAUTH).
- (5) Direct Support.
- (6) General Support.
- (7) Attachment.
- (8) Assignment.

Performance Standard. With aid of the reference, address in detail each of the items listed above that applies to the scenario.

Reference. MCWP 3-40.1.

PCDR-2015 3.0 B G

Goal. Plan for Force Protection measures for a LAAD unit.

Requirement. Given various tactical scenarios, recognize and state Force Protection measures for a LAAD unit.

Performance Standard. With the aid of references, accurately list or state the following concepts of Force Protection measures:

- (1) Command and control of the LAAD unit.
- (2) Sectors of fire/ Positions of crew served weapons.
- (3) Actions on enemy contact.
- (4) Positive ID criteria.
- (5) Rules of engagement.
- (6) Fire Support Plan.
- (7) Intelligence Surveillance Reconnaissance plan.

- (8) Communications planning.
- (9) CASEVAC procedures.
- (10) Logistics planning.
- (11) Night operations.

Prerequisite. PCDR-2000.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

PCDR-2016 1.0 B G

Goal. Familiarize LAAD Plt Cdr with concepts of employment in an air defense role.

Requirement. Given various tactical scenarios, recognize and state the employment concepts of a LAAD platoon in an air defense role.

Performance Standard. With the aid of references, accurately list or state concepts of LAAD employment.

Reference. MCWP 3-25.10.

PCDR-2017 2.0 B G

Goal. Define and apply Rules of Engagement (ROE).

Requirement. Define ROE as listed below:

- (1) ROE are the directives issued by competent military authority, that delineate the circumstances, and limitations under which United States forces will initiate and/or continue combat engagements with other forces encountered.
- (2) As this relates to the ACE ROE, identify exact conditions under which aircraft and missiles batteries may engage a target.

Performance Standard. Properly apply ROE during an IMTS scenario or field exercise.

Reference. MCWP 3-22.

PCDR-2018 2.0 B G

Goal. Understand employment of a LAAD platoon in a point defense.

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon by addressing, at minimum the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Command Post (CP) operations.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.

- (10) Integration with MACCS.
- (11) Integration with GCE.
- (12) Communications planning.
- (13) Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-2016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicle moving in formations, and radio frequencies to command and control.

PCDR-2019 2.0

B

G

Goal. Understand employment of a LAAD platoon for surveillance and gap filler.

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon for surveillance and weapons gap filler mission by addressing the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Command Post (CP) operations.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.
- (10) Integration with MACCS.
- (11) Integration with GCE.
- (12) Communications planning.
- (13) Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-2016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicle moving in formations, and radio frequencies to command and control.

PCDR-2020 2.0

B

G

Goal. Understand employment of a LAAD platoon for Defense of a maneuver element.

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon for Defense of a maneuver element by addressing the following

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Command Post (CP) operations.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.
- (10) Integration with MACCS.
- (11) Integration with GCE.
- (12) Communications planning.
- (13) Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicle moving in formations, and radio frequencies to command and control.

PCDR-2021 2.0

B

G

Goal. Understand employment of a LAAD platoon in a Convoy defense.

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon for Convoy defense by addressing the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Command Post (CP) operations.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.

- (10) Integration with MACCS.
- (11) Integration with GCE.
- (12) Communications planning.
- (13) Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicle moving in formations, and radio frequencies to command and control.

PCDR-2022 2.0

B

G

Goal. Understand employment of a LAAD platoon in a Base Defense Zone (BDZ).

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon for BDZ by addressing the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Command Post (CP) operations.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.
- (10) Integration with MACCS.
- (11) Integration with GCE.
- (12) Communications planning.
- (13) Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.
- (19) BDZ Criteria
 - (a) Weapon System
 - (b) Sensor
 - (c) C2 Agency (MATC)

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicle moving in formations, and radio frequencies to command and control.

PCDR-2023 2.0

B

G

Goal. Understand employment of a LAAD platoon in Defense of the Amphibious Ready Group (ARG).

Requirement. Given a tactical scenario, plan for and employ a LAAD platoon for DARG by addressing the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Shipboard Bridge / Combat Information Center integration.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.
- (12) Inter- and Intra-Ship Communications planning.
- (13) Shipboard ASP Procedures / Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.
- (19) Split unit operations.

Performance Standard. Per the references, develop a plan that addresses the considerations listed above.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

PCDR-2024 2.0

B

G

Goal. Plan and employ a LAAD platoon in a general support mission.

Requirement. Per the reference, given a scenario, plan and employ a platoon in a general support mission by addressing the following:

- (1) IPB (responsiveness to the threat).
- (2) Threat analysis.
- (3) LAAD capabilities, limitations, and requirements.
- (4) Command/support relationships.
- (5) Air defense priorities.
- (6) Command Post (CP) operations.
- (7) Air defense control measures.
- (8) ID Criteria.
- (9) Rules of engagement.
- (10) Surveillance plan.
- (11) Integration with MACCS.
- (12) Integration with host nation assets (as applicable).
- (13) Integration with GCE.
- (14) Communications plan.

- (15) Data link architecture capabilities/limitations.
- (16) Re-supply.
- (17) Logistics planning.
- (18) Helicopter borne operations (as applicable).
- (19) Night operations.
- (20) Amphibious operations (as applicable).

Performance Standard. With the aid of reference, address in detail each of the items listed above that applies to the scenario.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. FMFM 3-1, MCWP 3-25.10*, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, and FM 24-18.

PCDR-2025 2.0 B

 G

Goal. Plan for and employ a LAAD platoon in a direct support mission.

Requirement. The Platoon Commander will plan and employ the LAAD platoon per the reference. The Platoon Commander plan will address the following as applicable:

- (1) IPB (responsiveness to the threat).
- (2) Threat analysis.
- (3) LAAD capabilities, limitations, and requirements.
- (4) Command/support relationships.
- (5) Air defense priorities.
- (6) Command Post (CP) operations.
- (7) Air defense control measures.
- (8) ID Criteria.
- (9) Rules of engagement.
- (10) Surveillance plan.
- (11) Integration with MACCS.
- (12) Integration with host nation assets (as applicable).
- (13) Integration with GCE.
- (14) Communications plan.
- (15) Data link architecture capabilities/limitations.
- (16) Re-supply.
- (17) Logistics planning.
- (18) Heliborne operations (as applicable).
- (19) Night operations.
- (20) Amphibious operations (as applicable).

Performance Standard. With the aid of reference, address in detail each of the items listed above that applies to the scenario.

Prerequisite. PCDR-2014, PCDR-1016.

Reference. FMFM 3-1, MCWP 3-25.10*, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, and FM 24-18.

PCDR-2026 1.0 B (1) THT

 S/L

Goal. Demonstrate engagement process for Stinger missile.

Requirement. During a live exercise, the Officer, given a THT, will engage an aerial target.

- (1) Track and range target (i.e. time count method).
- (2) Activate weapon and obtains an acquisition tone.
- (3) Insert correct super elevation and lead reticle.
- (4) Hold trigger and un-cage bar 3 to 5 seconds to fire weapon.
- (5) Remove BCU from the grip-stock immediately.
- (6) Meet requirements on THT performance indicator after each THT engagement.

Performance Standard. Utilizing proper operating procedures and firing techniques, the Officer will engage an aerial target with a THT.

External Syllabus Support. Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.

Reference. FM 44-18-1 and TM 9-1425-429-12.

PCDR-2027 3.0 (180) B,R (1) IMTS S

Goal. Engage aircraft employing infrared counter measures (IRCCM's) in different simulated environments.

Requirement. Range, identify, and engage aircraft in the IMTS. The scenarios will include:

- (1) Ten F/W scenarios containing
 - (a) Scenarios will include a minimum of 1 friendly and 1 hostile aircraft. Aircraft speeds will vary between 200-450 knots.
 - (b) Five crossing scenarios where F/W aircraft range between 1-8 kilometers with altitudes between 3-12 thousand feet.
 - One scenario will include 2 hostile aircraft together.
 - One scenario will ensure aircraft are out of range.
 - (c) Five incoming scenarios where F/W aircraft range between 2-7 kilometers at any altitude below 15,000 feet.
 - One scenario will include 2 hostile aircraft together.
 - One scenario will ensure aircraft are out of range.
- (2) Ten R/W scenarios containing:
 - (a) Scenarios will consist of a minimum of 1 friendly and 1 hostile aircraft. Aircraft speed will not exceed 200 knots.
 - (b) Five crossing scenarios where R/W aircraft range between 1-8 kilometers with altitudes between 3-12 thousand feet.
 - One scenario will include 2 hostile aircraft together with one terrain masking for the entire flight.
 - One scenario will include aircraft are out of range.
 - (c) Five incoming scenarios where R/W aircraft range between 2-7 kilometers at any altitude below 15000 feet.
 - One scenario will include 2 hostile aircraft together.
 - One scenario will ensure aircraft are out of range.

Performance Standard. The Officer must properly identify targets IAW established rules of engagement. The Officer must demonstrate proper detection, acquisition, ranging, super elevation, and firing techniques. Actions are to be evaluated using the MTS. A total of 20 engagements are required.

Prerequisite. PCDR-2026.

Reference. MCWP 3-25.11 and FM 44-1A.

PCDR-2028 1.0 B (1) STLS L

Goal. Fire the Stinger Launch Simulator (STLS).

Requirement. Given a tactical scenario that includes enemy and friendly AOB, ROE, Air Defense Control Measures, and appropriate target, conduct a MANPAD engagement with the STLS. Engagement may be conducted during times of daylight, darkness, or reduced visibility. The STLS will be fired on an appropriate range while observing applicable safety constraints and considerations.

Performance Standard. Accurately identify target IAW established rules of engagement. Must demonstrate proper detection, acquisition, ranging, super elevation, and firing techniques.

Evaluator. Actions shall be evaluated by the firing pit coach.

Prerequisite. PCDR-2026 and PCDR-2027.

Reference. TM 08319A-12 and MCRP 3-25.10*.

Ordnance. (1)VX-99 STLS.

External Syllabus Support. Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.

PCDR-2029 1.0 (1095) B, R (1) Stinger L

Goal. Engage an air target with a live Stinger Missile.

Requirement. Engage an aerial target with a Stinger missile during a live fire exercise.

Performance Standard. Utilizing proper operating procedures and firing techniques, engage an aerial target by conducting the following:

- (1) Track and range target.
- (2) Activate weapon and obtain an acquisition tone.
- (3) Insert correct super elevation and lead.
- (4) Press trigger to fire weapon and continue to Track target for three to five seconds.
- (5) Remove BCU within three minutes.

Prerequisite. PCDR-2026 and PCDR-2027.

Reference. MCRP 3-25.10* and FM 44-1A.

Ordnance

- (1) of following Stinger missile types: PL-87 or PL-89, and
- (1) PN-16 Stinger grip-stocks (Basic/RMP).

External Syllabus Support. Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.

2.10.4 Staff Officer (STFO)

Purpose. To train the LAAD officer to serve as a LAAD Staff Officer in GBAD with organic equipment and understand basic LAAD TTPs necessary to perform LAAD Staff Officer duties. The STFO certification and designation applies to battery Executive Officers and officers assigned to battalion staff sections. These officers are entrusted to plan for and direct the actions of subordinates during wartime scenarios.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. None.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. Zero events, 33.0 hours.

STFO-2100	4.0	(180)	B, R	G
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Goal. Develop and Implement a Unit Training Plan.

Requirement. Given appropriate Marine Corps orders, and current readiness information, develop and implement a unit training plan.

Performance Standard. The training plan will incorporate training events that support the mission essential tasks listed in chapter 1 of this Manual.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-0A, and MCRP 3-0B.

STFO-2101	1.0		B	ACADEMIC	L
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Goal. Understand the Air Tasking Order (ATO).

Requirement. Given the references demonstrate an understanding of the ATO, considering the following:

- (1) Schedule of friendly aircraft.
- (2) Point of origin of friendly aircraft.

Performance Standard. The LAAD officer will extract the pertinent information from the ATO.

Reference. FMFM 5-4A, FMFM 5-60, J PUB 3-56.1, and MCWP 3-22.

STFO-2102	1.0		B	ACADEMIC	L
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Goal. Understand the Air Control Plan (ACP).

22 Nov 11

Requirement. Given the references demonstrate an understanding of the ACP, including a description of procedures and systems that provide airspace control during the specified time period.

Performance Standard. The LAAD officer will extract the pertinent information from the ACP.

Reference. FMFM 5-4A, FMFM 5-60, JPUB 3-56.1, and MCWP 3-22.

STFO-2103 1.0 B ACADEMIC L

Goal. Understand the Air Control Order (ACO).

Requirement. Given the references demonstrate an understanding of the ACO, considering the following:

- (1) Minimum Risk Routes (MRR).
- (2) Type of Weapons Engagement Zones (WEZ) to be employed:
 - (a) Joint Engagement Zone.
 - (b) Fighter Engagement Zone.
 - (c) Missile Engagement Zone.
- (3) Air routes/corridors.
- (4) Restricted Operating Zones.
- (5) Holding Areas.
- (6) Control Points.

Performance Standard. The LAAD officer will extract the pertinent information from the ACO.

Reference. FMFM 5-4A, FMFM 5-60, JPUB 3-56.1, and MCWP 3-22.

STFO-2104 1.0 B ACADEMIC L

Goal. Understand the Area Air Defense Plan.

Requirement. Given the references demonstrate an understanding of the Area Air Defense Plan, considering the following:

- (1) Air defense hierarchy including:
 - (a) Airspace Control Authority (ACA).
 - (b) Area Air Defense Commander (AADC).
 - (c) Regional Air Defense Commander (RADC).
 - (d) Sector Air Defense Commander (SADC).
- (2) Who retains:
 - (a) Air control authority.
 - (b) Air direction authority.

Performance Standard. The LAAD officer will extract the pertinent information from the Area Air Defense Plan.

Reference. FMFM 5-4A, FMFM 5-60, JPUB 3-56.1, and MCWP 3-22.

STFO-2105 1.0 B ACADEMIC L

Goal. Understand the OPTASKLINK.

Requirement. Given the references demonstrate an understanding of the OPTASKLINK, considering the following:

- (1) Cartesian coordinate reference point.

- (2) Cartesian coordinate reference system specifications.
- (3) Data link addresses.

Performance Standard. The LAAD officer will extract the pertinent information from the OPTASKLINK.

Reference. FMFM 5-4A, FMFM 5-60, J PUB 3-56.1, and MCWP 3-22, MCWP 3-25.4.

STFO-2106 1.0 B ACADEMIC L

Goal. Understand TBMCS.

Requirement. Given the references demonstrate an understanding of the TBMCS, considering the following:

- (1) Submit and track an Air Support Request (ASR) in WARP.
- (2) Submit and track a Joint Tactical Airstrike Request (JTAR) in WARP.
- (3) Verify friendly aircraft schedule in ESTAT.
- (4) Verify the status of friendly assets in FSTAT.

Performance Standard. The LAAD officer will extract the pertinent information from the TBMCS.

Reference. FMFM 5-4A, FMFM 5-60, J PUB 3-56.1, and MCWP 3-22, MCWP 3-25.4.

STFO-2107 10.0 B G

Goal. Understand tactical level logistical planning considerations.

Requirement. Demonstrate an understanding of tactical level logistical planning considerations, at minimum to include:

- (1) Classes of Supply.
- (2) Maintenance levels and echelons.
- (3) Transportation:
 - (a) Movement Control Centers.
 - (b) Embarkation (MDSS II levels).
 - (c) Landing support.
 - (d) Port and terminal operations.
 - (e) Motor transport.
 - (f) Air delivery.
 - (g) Freight/passenger Transportation.
 - (h) MHE.
- (4) General Engineering tasks:
- (5) Health Services - MAGTF capabilities.
- (6) Services:
 - (a) Disbursing.
 - (b) Postal.
 - (c) Exchange services.
 - (d) Security support.
 - (e) Legal services.
 - (f) Civil affairs support.
 - (g) Graves registration.
 - (h) Personnel administration services.
 - (i) Religious ministry support.
 - (j) Financial management.

- (k) Communications and information systems.
- (l) Billeting.
- (m) Messing.
- (7) Maritime Preposition Force:
 - (a) Survey, Liaison, Reconnaissance Party (SLRP).
 - (b) Offload Preparation Party (OPP).
 - (c) Arrival and Assembly Operations Element (AAOE).
- (8) Command and Control:
 - (a) Aviation Ground Support Operations Center (AGSOC).
 - (b) Combat Service Support Operations Center (CSSOC).
 - (c) Airfield Arrival Control Group/Departure Airfield Control Group (AACG/DACG).

Performance Standard. Pass a written examination and practical application with 80% accuracy.

Reference. MCWP 4-1 and MCWP 4-1.1.

SFTO-2108 5.0 B, E G

Goal. Demonstrate an understanding of the Marine Aviation Wing (MAW).

Requirement. Given the references demonstrate an understanding of the Marine Aviation Wing (MAW's) units, systems, capabilities and limitations to include, at minimum, the following:

- (1) Marine Air Groups:
 - (a) Marine Aviation Logistics Squadron F/W & R/W.
 - (b) Marine Aerial Refueler Transport Squadron.
 - (c) Marine Tactical Electronic Warfare Squadron.
 - (d) Marine Fighter Attack Squadron.
 - (e) Marine Attack Squadron.
 - (f) Marine Helicopter Heavy Squadron.
 - (g) Marine Helicopter Medium Squadron.
 - (h) Marine Helicopter Light/Attack Squadron.
- (2) Marine Wing Support Group and Marine Wing Support Squadron.
- (3) Marine Air Control Group:
 - (a) Marine Tactical Air Command Squadron.
 - (b) Marine Air Control Squadron.
 - (c) Marine Unmanned Aerial Vehicle Squadron.
 - (d) Marine Wing Communications Squadron.
 - (e) Marine Air Support Squadron.
 - (f) Low Altitude Air Defense Battalion.

Performance Standard. With the aid of references, the LAAD officer will list and define the different Marine Air Groups, Marine Wing Support Group, Marine Wing Support Squadrons, and Marine Air Control Groups of Marine Aviation.

References. MCWP 3-2 Aviation Operations, MCWP 3-21.1 Aviation Ground Support.

STFO-2109 5.0 B, E G

Goal. Demonstrate an understanding of the Marine Ground Combat Division

Requirement. Given the references demonstrate an understanding of the Marine Ground Combat Division units, and Combat Logistics Groups capabilities and limitations to include, at minimum, the following:

- (1) Marine Division:
 - (a) Infantry Regiments and Infantry Battalions.
 - (b) Artillery Regiment and Artillery Battalions.
 - (c) Tank Battalion.
 - (d) Amphibious Assault Battalion.
 - (e) Combat Engineer Battalion.
 - (f) Light Armored Reconnaissance Battalion.
- (2) Combat Logistics Group.
 - (a) Combat Logistics Regiments.
 - (b) Combat Logistics Battalions.

Performance Standard. With the aid of references, the LAAD officer will list and define the different Marine Ground Combat Divisions, and Combat Logistics Support Groups (as required above).

Reference. MCWP 3-31.5 and FMFM-6.

2.10.5 Battery Commander (BCDR)

Purpose. To train the LAAD officer to serve as a LAAD Battery Commander in GBAD given a T/O battery and organic equipment and understand basic LAAD TTPs necessary to perform BCDR duties. This stage prepares the LAAD Officer to plan for and employ a LAAD Battery in support/defense of the MACCS, ACE and MAGTF.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient LAAD Battery.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. One event, 13.0 hours.

BCDR-2200 4.0 (365) B, R (1) ORGANIC BTRY CP EQUIP L

Goal. Establish a LAAD battery command post.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, establish a command post, considering at a minimum the following:

- (1) Conduct site selection analysis.
- (2) Establish communication with higher headquarters and platoon commanders.
- (3) Obtain current ADWC, SOA, WC, and all pertinent information pertaining to the mission.

- (4) Obtain position reports for all Platoon Commanders, Section Leaders and teams.
- (5) Construct and update status board.
- (6) Update 1:50,000 and JOGAIR maps.
- (7) Cover and concealment/passive air defense measures.
- (8) Local security.
- (9) Integration with command and control agencies.

Performance Standard. The LAAD officer will establish a command post, at a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2013.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

BCDR-2201 2.0 (365) B,R G

Goal. Develop a communications plan for a LAAD battery.

Requirement. Demonstrate an understanding of VHF and HF planning considerations and develop a communications architecture, at minimum:

- (1) Plan for VHF requirements
- (2) Plan for HF to higher headquarters.
- (3) Plan for HF to subordinate units.
- (4) Obtain available frequencies.
- (5) Plan for digital communications systems.
- (6) Develop communications diagram.

Performance Standard. LAAD Officer has established battery communications plan.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCWP 3-40.3B and MCRP 3-25.10A.

BCDR-2202 3.0 (365) B, R G

Goal. Develop and issue an operations order for a LAAD battery.

Requirement. Given a tactical scenario, warning order, or fragmentary order, prepare and issue an OpOrd to subordinate unit leaders.

Performance Standard. Prepare and present an OpOrd to Platoon Commanders and/or Battery Staff that accurately disseminates the information in the original order received.

Prerequisite. PCDR-2010, PCDR-2011, PCDR-2012, BCDR-2201.

Reference. MCWP 3-25.10, MCWP 3-25.11 and FMFM 3-1.

Goal. Understand employment of a LAAD battery in General Support.

Requirement. Per the reference, given a scenario, plan for the employment of a Battery in a general support mission by addressing the following:

- (1) IPB (responsiveness to the threat).
- (2) Threat analysis.
- (3) LAAD capabilities, limitations, and requirements.
- (4) Command/support relationships.
- (5) Air defense priorities.
- (6) Command Post (CP) operations.
- (7) Air defense control measures.
- (8) ID Criteria.
- (9) Rules of engagement.
- (10) Surveillance plan.
- (11) Integration with MACCS.
- (12) Integration with host nation assets (as applicable).
- (13) Integration with GCE.
- (14) Communications plan.
- (15) Data link architecture capabilities/limitations.
- (16) Re-supply.
- (17) Logistics planning.
- (18) Helicopter borne operations (as applicable).
- (19) Night operations.
- (20) Amphibious operations (as applicable).

Performance Standard. With the aid of reference, address in detail each of the items listed above that applies to the scenario.

Prerequisite. PCDR-2014, PCDR-1016, PCDR-2024.

Reference. FMFM 3-1, MCWP 3-25.10*, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, and FM 24-18.

Goal. Understand employment of a LAAD battery in Direct Support.

Requirement. Per the reference, given a scenario, plan for the employment of a Battery in a direct support mission by addressing the following:

- (1) IPB (responsiveness to the threat).
- (2) Threat analysis.
- (3) LAAD capabilities, limitations, and requirements.
- (4) Command/support relationships.
- (5) Air defense priorities.
- (6) Command Post (CP) operations.
- (7) Air defense control measures.
- (8) ID Criteria.
- (9) Rules of engagement.
- (10) Surveillance plan.
- (11) Integration with MACCS.
- (12) Integration with host nation assets (as applicable).
- (13) Integration with GCE.
- (14) Communications plan.
- (15) Data link architecture capabilities/limitations.

- (16) Re-supply.
- (17) Logistics planning.
- (18) Heliborne operations (as applicable).
- (19) Night operations.
- (20) Amphibious operations (as applicable).

Performance Standard. With the aid of reference, address in detail each of the items listed above that applies to the scenario.

Prerequisite. PCDR-2014, PCDR-1016, PCDR-2025.

Reference. FMFM 3-1, MCWP 3-25.10*, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, and FM 24-18.

2.10.6 Command and Control Data Systems (C2SYS)

Purpose. To train LAAD officers serving as watch standers in either a LAAD Command Post or MACCS agency on the various Command and Control data systems they may required to operate.

Refresher Training. No C2SYS courses are required for the refresher POI.

Crew Requirement. None.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 4 events, 13.0 hours.

	Event Code	Event Description	Event Count	Flight Hours	PCDR	STFO	BCDR
C2SYS	2922	Operate Blue Force Tracker Equipment	1	4	B	-	-
C2SYS	2940	Set up and establish communications using an IRC network	1	1	B	-	-
C2SYS	2921	Operate C2 Personal Computer	1	4	-	B	-
C2SYS	2923	Operate Command Post of the Future	1	4	-	B	-

2.11 MISSION SKILL PROFICIENCY TRAINING (3000)

2.11.1 Purpose. To train LAAD Officers on employing LAAD units while executing the various mission sets required to fulfill the Mission Essential Tasks (METs) assigned to the LAAD Battalions. The Core Skills obtained during the PCDR, STFO, and BCDR stage certifications will be applied in the field environment, often while integrating with MACCS agencies or GCE units. LAAD officers who complete events will have demonstrated their leadership ability and proficiency in the TTPs related to the Ground Based Air Defense and Air Base Ground Defense missions.

2.11.1.1 Prerequisite. Complete core skill proficiency training for each stage.

2.11.1.2 Mission Skills

PAR NO.	STAGE NAME	ABBREV
2.11.3	GROUND BASED AIR DEFENSE	GBAD
2.11.4	AIR BASE GROUND DEFENSE	ABGD

2.11.2 Ground Based Air Defense (GBAD)

Purpose. To train the LAAD officer in employment of the LAAD unit within the Ground Based Air Defense structure.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient LAAD Battery.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 11 events, 128.0 hours.

GBAD-3010 12.0 (365) B, R (1) LAAD PLATOON WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD platoon in point defense.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in a point defense. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD platoon in a point defense, at a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2017, PCDR-2018.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3011 12.0 (365) B, R (1) LAAD PLATOON WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD platoon in surveillance and gap filler role.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in a surveillance and gap filler role. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD platoon in a surveillance and gap filler role, at a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2017, PCDR-2019.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3012 12.0 (365) B, R (1) LAAD PLATOON WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD platoon in defense of a maneuver unit.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in defense of a maneuver unit. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD platoon in defense of a maneuver unit, at a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2017, PCDR-2020.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3013 12.0 (365) B, R (1) LAAD PLATOON WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD platoon in convoy defense.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in convoy defense. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD platoon in convoy defense, at a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2017, PCDR-2021.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3014 12.0 (365) B, R (1) LAAD PLATOON WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD platoon in a Base Defense Zone (BDZ).

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in a Base Defense Zone (BDZ). The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD platoon in a Base Defense Zone (BDZ), at a minimum the requirements listed above will be considered.

Prerequisites. PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2007, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2017, PCDR-2022.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3015 8.0 (365) B, R (1) LAAD COMMAND POST L

Goal. Serve as a Watch Officer in a LAAD command post.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, serve as a watch officer in a LAAD command post during GBAD operations. The following will be considered:

- (1) Integration and communication with MACCS/Early warning agencies.
- (2) Maintain situational awareness of the friendly and enemy situation.
- (3) Assist the Commanding Officer in tactical decision making.
- (4) Manage information flow within the command post and between higher headquarters, subordinate units and adjacent agencies.

Performance Standard. The LAAD officer will serve as a watch officer in a LAAD command post. At a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2014, PCDR-2016.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3020 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD Battery in point defense.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD Battery in a point defense. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD Battery in a point defense, at a minimum the requirements listed above will be considered.

Prerequisite. GBAD-3010.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3021 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD Battery in surveillance and gap filler role.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD Battery in a surveillance and gap filler role. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD Battery in a surveillance and gap filler role, at a minimum the requirements listed above will be considered.

Prerequisite. GBAD-3011.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3022 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD Battery in defense of a maneuver unit.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD platoon in defense of a maneuver unit. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD Battery in defense of a maneuver unit, at a minimum the requirements listed above will be considered.

Prerequisite. GBAD-3012.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3023 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD Battery in convoy defense.

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD Battery in convoy defense. The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.

- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD Battery in convoy defense, at a minimum the requirements listed above will be considered.

Prerequisite. GBAD-3013.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

GBAD-3024 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACT LOAD OUT L

Goal. Employ a LAAD Battery in a Base Defense Zone (BDZ).

Requirement. Given a tactical scenario, area of operation, and all associated equipment, employ a LAAD Battery in a Base Defense Zone (BDZ). The following will be considered:

- (1) Integration with MACCS/Early warning agencies.
- (2) Ability to defend the critical asset from air attack.
- (3) MAGTF air defense priorities.
- (4) Ability to communicate to higher, subordinate and adjacent units and agencies.
- (5) Ground security environment.

Performance Standard. The LAAD officer will employ a LAAD Battery in a Base Defense Zone (BDZ), at a minimum the requirements listed above will be considered.

Prerequisite. GBAD-3014.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

2.11.4 Air Base Ground Defense (ABGD)

Purpose. To train the LAAD officer to employ the LAAD unit within an Air Base Ground Defense structure.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient LAAD Battery.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 7 events, 80.0 hours.

ABGD-3100 12.0 (365) B,R (1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT L

Goal. Employ platoon in mounted and dismounted patrols.

Requirement. Given a tactical scenario, conduct mounted and dismounted patrols, while considering:

- (1) Route reconnaissance.
- (2) Security.
- (3) Fire support planning and coordination.
- (4) Communications plan.
- (5) Immediate Action Drills (IDF, Direct Fire Ambush, IED, Sniper).
- (6) Supporting arms plan and coordination.
- (7) Coordination with adjacent units.

Performance Standard. The LAAD platoon shall conduct mounted and dismounted patrols.

Prerequisite. PCDR-2000, PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2014, PCDR-2015, PCDR-2017.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-3101 12.0 (365) B,R (1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT L

Goal. Establish and operate Entry Control Point/Vehicle Control Point.

Requirement. Given a tactical scenario, establish and operate Entry Control Point/Vehicle Control Point, while considering:

- (1) Security from external threats.
- (2) Internal overwatch/security.
- (3) Standoff distance from MSR.
- (4) Barrier plan/traffic control.
- (5) Vehicle search area.
- (6) Personnel search area.

Performance Standard. The LAAD platoon shall establish and operate an Entry Control Point/Vehicle Control Point.

Prerequisite. PCDR-2000, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2008, PCDR-2009, PCDR-2015, PCDR-2017.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-3102 12.0 (365) B,R (1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT L

Goal. Employ a LAAD Platoon in Ground Defense.

Requirement. Given a tactical scenario, employ a LAAD Platoon in the Defense, while considering:

- (1) Establish a platoon command post.
- (2) Local reconnaissance and observation.
- (3) Local security and crew served weapon employment.
- (4) Obstacle, barrier, and entrenchment plan.
- (5) Communications plan.
- (6) Defense in depth/patrol plan.
- (7) Fire support plan and coordination.
- (8) Casualty plan.

Performance Standard. The LAAD platoon shall conduct a defense.

Prerequisite. PCDR-2000, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2013, PCDR-2015, PCDR-2017, ABGD-3100, ABGD-3101.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-3103 12.0 (365) B,R (1) LAAD PLATOON WITH COMP TACTICAL LOAD OUT L

Goal. Employ platoon as a Quick Reaction Force (QRF).

Requirement. Given a tactical scenario, employ platoon as a Quick Reaction Force (QRF), while considering:

- (1) Patrol/Convoy basics.
- (2) Maintain situational awareness of battlespace.
- (3) Establish preplanned battle drills.
- (4) Coordinate with ECPs and other patrols/convoys within the unit Area of Operations.
- (5) Receive mission updates on the move/enroute.
- (6) Preplan for Casevac.

Performance Standard. The LAAD platoon shall conduct QRF operations.

Prerequisite. PCDR-2000, PCDR-2001, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2014, PCDR-2015, PCDR-2017, ABGD-3100.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-3115 12.0 (365) B,R (1) CP TENT, (1)CPOF COMPUTER, HF AND VHF RADIOS, (1) BFT L

Goal. Establish a Base Defense Operations Center (BDOC).

Requirement. Given a tactical scenario, area of operation, and all associated equipment, establish a BDOC, considering at a minimum the following:

- (1) Conduct site selection analysis.
- (2) Establish communication with higher headquarters and platoon commanders.
- (3) Construct and update status board.

- (4) Update 1:50,000 and JOG AIR maps.
- (5) Cover and concealment/passive air defense measures.
- (6) Local security.
- (7) Integration with command and control agencies.

Performance Standard. The BDOC will be established and provide command and control for the security force.

Prerequisite. PCDR-2000, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2006, PCDR-2008, PCDR-2009, PCDR-2010, PCDR-2013, PCDR-2014, PCDR-2015.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-3116 8.0 (365) B, R (1) LAAD COMMAND POST L

Goal. Serve as a Watch Officer in a Base Defense Operations Center (BDOC).

Requirement. Given a tactical scenario, area of operation, and all associated equipment, serve as a watch officer in a BDOC during ground defense operations. The following will be considered:

- (1) Maintain communication with command and control agencies.
- (2) Maintain situational awareness of the friendly and enemy situation.
- (3) Assist the Commanding Officer in tactical decision making.
- (4) Manage information flow within the command post and between higher headquarters, subordinate units and adjacent agencies.

Performance Standard. The LAAD officer will serve as a watch officer in a BDOC. At a minimum the requirements listed above will be considered.

Prerequisite. PCDR-2000, PCDR-2014, PCDR-2015, PCDR-2017.

Reference. MCWP 3-25.10.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

ABGD-3120 12.0 (365) B, R (1) LAAD BATTERY WITH COMP TACTICAL LOAD OUT L

Goal. Employ a LAAD battery in a Ground Defense role.

Requirement. Given a tactical scenario, employ a LAAD Battery in the Defense, while considering:

- (1) Establish a battery command post.
- (2) Local reconnaissance and observation.
- (3) Local security and crew served weapon employment.
- (4) Obstacle, barrier, and entrenchment plan.
- (5) Communications plan.
- (6) Defense in depth/patrol plan.
- (7) Fire support plan and coordination.
- (8) Casualty plan.

Performance Standard. The LAAD Battery shall conduct a defense.

Prerequisite. ABGD-3102, ABGD-3115.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

External Syllabus Support. A training area capable of supporting large numbers of tactical vehicles moving in formations.

2.12 CORE PLUS TRAINING (4000)

2.12.1 Purpose. This phase of training develops the LAAD Officer by developing additional skills that are theater specific or have a low probability of execution. Completion of these events trains the LAAD Officer for missions that may be required for completion during operational deployments with narrowly defined missions. Additionally, the LAAD officer will have an understanding of the characteristics, capabilities, limitations, operation, and employment of Joint and Coalition systems and assets. This phase is reserved for large scale integrated missions and/or events having unique mission tasks. Upon completion of Core Skills Plus training, LAAD Officers will be capable of planning for and employing a Battery/Battalion to fulfill any LAAD primary or secondary mission in a Joint/Coalition environment.

2.12.1.1 Prerequisite. None.

2.12.1.2 Core Skill Plus Stages

PAR NO.	STAGE NAME	ABBREV
2.12.3	GROUND BASED AIR DEFENSE	GBAD
2.12.4	AIR BASE GROUND DEFENSE	ABGD

2.12.2 Ground Based Air Defense (GBAD)

Purpose. To train the LAAD officer in advanced or theater specific skills to employ the LAAD unit within a Ground Base Air Defense Structure.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient LAAD Battery.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 2 events, 18.0 hours.

Goal. Employ a LAAD unit in defense of an Amphibious Ready Group (ARG).

Requirement. While aboard ship or during an amphibious landing, employ a LAAD unit in defense of an ARG, considering the following:

- (1) IPB (Responsiveness to the Threat).
- (2) LAAD capabilities, limitations, and requirements.
- (3) Command/support relationships.
- (4) Air defense priorities.
- (5) Shipboard Bridge / Combat Information Center integration.
- (6) Air defense control measures.
- (7) ID Criteria.
- (8) Rules of engagement.
- (9) Surveillance plan.
- (12) Inter- and Intra-Ship Communications planning.
- (13) Shipboard ASP Procedures / Missile re-supply.
- (14) Logistics planning.
- (15) Helicopter borne operations (where applicable).
- (16) Night operations.
- (17) Amphibious operations (where applicable).
- (18) Operational risk management.
- (19) Split unit operations.

Performance Standard. The ARG will have been provided active air defense by the LAAD unit.

Prerequisites. PCDR-2016, PCDR-2017, PCDR-2023

Reference. MCWP 3-25.10, MCWP 3-25.11, MCRP 3-40.3C, ACP-125, FM 24-18, FMFM 3-1 and MCO 3500.27.

Goal. Plan for LAAD employment in a Joint/Combined environment.

Requirement. Given a tactical scenario, develop a plan to employ a LAAD unit in a Joint/Combined environment, to include:

- (1) Joint/Combined air defense weapon systems.
- (2) Joint/Combined air surveillance assets.
- (3) Joint/Combined terminology.
- (4) Joint/Combined interoperability.

Performance Standard. The plan shall effectively employ the LAAD unit in a Joint/Combined environment.

Prerequisite. PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2014, PCDR-2015, PCDR-2016, PCDR-2017, ACPM-8081, ACPM-8082, ACPM-8088.

Reference. MCWP 3-25.10, MCWP 3-25.11, MCWP 3-22, FMFM 5-60, NWP 3-01.01 and J PUB 3-56.1.

2.12.3 Air Base Ground Defense (ABGD)

Purpose. To train the LAAD officer to employ the LAAD unit within an Air Base Ground Defense structure.

Refresher Training. Refresher training is required once a Core Skill LAAD Officer has been absent from a LAAD billet for 36 months or longer. Upon return to a LAAD billet, the officer will complete R-coded events for this stage of training.

Crew Requirement. Core skill proficient LAAD Battery.

Academic Training. Academic training will be conducted prior to and/or concurrent with required events. An academic event, once completed, can be credited as a prerequisite for follow-on training events.

Live and Simulator Event Training. 2 events, 24.0 hours.

ABGD-4100 12.0 B (1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT L

Goal. Employ a LAAD platoon as a convoy security team.

Requirement. Given a tactical scenario, develop a plan to employ a LAAD platoon to provide security for a convoy of vehicles from another unit, while considering:

- (1) Route Reconnaissance.
- (2) Security/Crew Served Weapon employment.
- (3) Communications plan.
- (4) Immediate Action Drills (IDF, Direct Fire Ambush, IED, Sniper).
- (5) Supporting arms plan and coordination.
- (6) Coordinate with supported unit.

Performance Standard. The LAAD platoon shall provide convoy security.

Prerequisite. PCDR-2000, PCDR-2002, PCDR-2003, PCDR-2004, PCDR-2005, PCDR-2008, PCDR-2010, PCDR-2011, PCDR-2012, PCDR-2015, PCDR-2017, PCDR-3100.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3.

ABGD-4101 12.0 B (1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT L

Goal. Conduct a cordon and search.

Requirement. Given an order, a specified location, appropriate supporting personnel, conduct a cordon and search:

- (1) Route Reconnaissance.
- (2) Conduct detailed planning and coordination with higher, supporting, adjacent and attached units.
- (3) Communications plan.
- (4) Establish inner and outer cordons around the search area/location and prevent movement into and out of the area, while also providing security and overwatch to the search element.
- (5) Maintain situational awareness of units and factors related to the cordon and search.
- (6) Search site for personnel, weapons, equipment, and/or contraband.

- (7) Conduct Sensitive Site Exploitation.
- (8) Conduct detainee handling.
- (9) Immediate Action Drills (IDF, Direct Fire Ambush, IED, Sniper).
- (10) Supporting arms plan and coordination.

Performance Standard. Designated personnel, weapons and or contraband is located within the search area/location.

Prerequisite. ABGD-3100.

Reference. TTECG & MAWTS-1 Convoy Operations Battle Book March 2005, MCWP 3-21.1, MCWP 3-17, MCRP 3-16C, MCRP 3-33.5, MCWP 3-34.1, MCWP 3-15.1, MCRP 3-41.1A, and MCWP 3-11.3, MCIP 3-33.01, MCRP 3-31.4B, MCWP 3-33.5, BUST Handbook.

2.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

2.13.1 Purpose. To develop instructor proficiency and experience for LAAD officers to effectively train and monitor personnel undergoing LAAD training.

2.13.2 General

2.13.2.1 Prerequisite. The Instructor Under Training shall be Core Skill complete for the Basic Instructor Designation and shall be Mission Skill Certified for the Senior Instructor Designation.

2.13.2.2 Instructor Under Training Stages

PAR NO.	STAGE NAME	ABBREV
2.13.3	BASIC INSTRUCTOR	BI
2.13.4	SENIOR INSTRUCCTOR	SI

2.13.2.3 Administrative Notes

Upon completion of WTI or LETI Course, the officer will be eligible for designation as a WTI or LETI at the discretion of the Battalion Commanding Officer. A letter designating the officer as a WTI or LETI shall be placed in the IPR along with any waivers, deferments or endorsements; tracking code will be logged as DESG-6322 for WTI and DESG-6319 for LETI.

Prior to providing instruction on any event in this syllabus, officers shall complete the Basic Instructor syllabus per the C3 Course Catalog. They shall also be proficient in those areas/events in which they instruct.

Upon completion of the Senior Instructor Syllabus per the C3 Course Catalog and certification as a LETI by MAWTS-1, a LAAD Officer may be designated as a LAAD SI.

Instructor training will only be conducted by a designated LETI or WTI.

2.13.2.4 Live and simulated training. 7 events, 13 hours.

2.13.3 Basic Instructor Stage

STAGE	EVENT CODE	COURSE NAME
Basic Instructor	IUT-5000	Introduce principals of instruction
	IUT-5010	Understand the structure of an event
	IUT-5020	Conduct a period of instruction on a T&R event

2.13.4 Senior Instructor Stage

STAGE	EVENT CODE	COURSE NAME
Senior Instructor	IUT-5100	Understand the aviation T&R program
	IUT-5110	Understand the applicable community T&R program
	IUT-5120	Understand T&R administration
	IUT-5130	Develop a training plan

2.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (6000)

2.14.1 General

This phase contains certification, qualification and designation tracking codes designed to facilitate training management. This level also provides community standardization for combat leadership designation. CRP is not awarded for 6000 level events.

This phase consists of LAAD Officer certifications, qualifications and designations.

Once a LAAD officer has completed all requirements for a certification or designation, the battalion's WTI shall review the IPR and staff the appropriate letter to the commander for approval.

LAAD officers do not receive the certification or designation until the commander or designated representative has approved it in writing, corresponding tracking code is logged, signed letter is filed in the IPR and all required administrative actions have been taken.

2.14.2 Certifications

2.14.2.1 Purpose. To track LAAD officer certification codes.

2.14.2.2 Administrative Notes

All syllabus training requirements for a certification must be completed prior to being certified.

In order for a certification to remain current, a LAAD officer shall maintain proficiency in all required core skills.

If proficiency is lost for one or more core skills, the officer shall regain proficiency by completing all R-coded events within each core in which the proficiency was lost.

2.14.2.3 Certifications

(1) Platoon Commander

- (2) Staff Officer
- (3) Battery Commander

CERT-6001

Goal. Tracking Code for LAAD Platoon Commander Certification.

Requirement. Upon completion of the prerequisite, the officer will be certified in writing as a LAAD Platoon Commander by the Battalion Commander.

Prerequisite. Graduate from Basic LAAD Officer School. Completion of the 2000 phase events listed in the Individual CSP Attain Table for Platoon Commanders.

CERT-6002

Goal. Tracking code for Staff Officer Certification.

Requirement. The LAAD Officer will be certified as a LAAD Staff Officer upon completion of all events in the 2100 phase. The Battalion Commander will sign the certification letter stating the individual is certified as a LAAD Staff Officer.

Prerequisite. Completion of the 2100 phase events listed in the Individual CSP Attain Table for Staff Officer.

CERT-6003

Goal. Tracking code for Battery Commander Certification.

Requirement. The LAAD Officer will be certified as a LAAD Battery Commander upon completion of all events in the 2200 phase. The Battalion Commander will sign the certification letter stating the individual is certified as a LAAD Battery Commander.

Prerequisite. Completion of the 2200 phase events listed in the Individual CSP Attain Table for Battery Commanders.

2.14.3 Qualifications

2.14.3.1 Purpose. To track LAAD Officer qualification codes.

2.14.3.2 Administrative Notes

2.14.3.2.1 All syllabus training events for a qualification must be completed prior to being qualified.

2.14.3.2.2 In order for a qualification to remain current, a LAAD officer shall maintain proficiency in all required mission skills.

2.14.3.2.3 Qualifications will remain effective for twelve months. To regain or renew all events must be performed again.

2.14.3.3 Qualifications

Platoon Commander in GBAD.

Staff Officer in GBAD.

Battery Commander in GBAD.

Platoon Commander in ABGD.

Staff Officer in ABGD.

Battery Commander in ABGD.

QUAL-6201

Goal. Tracking code for Platoon Commander in GBAD.

Requirement. The LAAD Officer will be qualified as a LAAD Platoon Commander upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign the qualification letter stating the individual is qualified as a LAAD Platoon Commander in the GBAD mission.

Prerequisite. CERT-6001.

QUAL-6202

Goal. Tracking code for Staff Officer in GBAD.

Requirement. The LAAD Officer will be qualified as a LAAD Staff Officer upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign the qualification letter stating the individual is qualified as a LAAD Staff Officer in the GBAD mission.

Prerequisite. CERT-6002.

QUAL-6203

Goal. Tracking code for Battery Commander in GBAD.

Requirement. The LAAD Officer will be qualified as a LAAD Battery Commander upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign

the qualification letter stating the individual is qualified as a LAAD Battery Commander in the GBAD mission.

Prerequisite. CERT-6003.

QUAL-6211

Goal. Tracking code for Platoon Commander in ABGD.

Requirement. The LAAD Officer will be qualified as a LAAD Platoon Commander upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign the qualification letter stating the individual is qualified as a LAAD Platoon Commander in the ABGD mission.

Prerequisite. All core skill events listed as prerequisites for required mission skill events.

QUAL 6212

Goal. Tracking code for Staff Officer in ABGD.

Requirement. The LAAD Officer will be qualified as a LAAD Staff Officer upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign the qualification letter stating the individual is qualified as a LAAD Staff Officer in the ABGD mission.

Prerequisite. All core skill events listed as prerequisites for required mission skill events.

QUAL-6213

Goal. Tracking code for Battery Commander in ABGD.

Requirement. The LAAD Officer will be qualified as a LAAD Battery Commander upon completion of all mission skill events listed in the attain table in paragraph 203.2.d. The Battalion Commander will sign the qualification letter stating the individual is qualified as a LAAD Battery Commander in the ABGD mission.

Prerequisite. All core skill events listed as prerequisites for required mission skill events.

2.14.4 Designations

2.14.4.1 Purpose. To track the designation of LAAD combat leaders, officer staff billet holders, and instructors. All syllabus training requirements for a specific designation must be complete prior to being designated. Training management personnel shall log final designation codes once designated by the commanding officer or direct representative.

2.14.4.2 Administrative Notes

A commanding officer may grant a designation to a LAAD officer when the officer completes all training requirements for that designation. The designation is effective when the squadron WTI reviews the IPR and staffs the

designation letter, the commander signs the letter, the appropriate designation code is logged, and all administration is complete.

In order for a designation to remain current, a LAAD officer shall maintain proficiency all core skills required for that designation to remain current.

If proficiency is lost for one or more core skills, the officer shall regain proficiency by completing all R-coded events within each core in which the proficiency was lost.

2.14.4.3 Designations

- (1) LAAD Platoon Commander
- (2) Staff Officer
- (3) Battery Commander
- (4) LAAD Enhanced Training Instructor (LETI)
- (5) Basic Instructor (BI)
- (6) Senior Instructor (SI)
- (7) Weapons and Tactics Instructor (WTI)

DESG-6101

Goal. Tracking Code for LAAD Platoon Commander Designation.

Requirement. Appointment to the billet of Platoon Commander.

Prerequisite. CERT-6001.

DESG-6102

Goal. Tracking code for Staff Officer Designation.

Requirement. Appointment as Staff Officer.

Prerequisite. CERT-6002.

DESG-6103

Goal. Tracking code for Battery Commander Designation.

Requirement. Appointment as Battery Commander.

Prerequisite. CERT-6003.

DESG-6319

Goal. Tracking code for a LAAD Enhanced Training Instructor (LETI) designation.

Requirement. Be certified by MAWTS-1 as a LETI.

Prerequisite. Per MAWTS-1 LETI course syllabus requirements.

DESG-6320

Goal. Tracking code for a Basic Instructor (BI) designation.

Requirement. Be certified as a BI.

Prerequisite. Completion of the C3 Course Catalog BI syllabus and CERT-6001.

DESG-6321

Goal. Tracking code for a Senior Instructor (SI) designation.

Requirement. Be certified as a SI.

Prerequisite. Completion of the C3 Course Catalog SI syllabus and certification by MAWTS-1 as a LETI.

DESG-6322

Goal. Tracking Code for WTI designation.

Requirement. Be certified by MAWTS-1 as a WTI. Upon graduation from the Weapons and Tactics Instructor Course at MAWTS-1.

Prerequisite. Per MAWTS-1 WTI course syllabus requirements.

2.15. AVIATION CAREER PROGRESSION MODEL (8000)

STAGE	TRNG CODE	T&R DESCRIPTION	ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	MACCS	1	3000 PHASE
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM	4	3000 PHASE
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)	4	3000 PHASE
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)	4	3000 PHASE
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)	4	3000 PHASE
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)	4	3000 PHASE
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)	4	3000 PHASE
ACPM	8007	UAS SUPPORT TO THE MAGTF	4	3000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)	4	3000 PHASE
ACPM	8020	ACE	1	3000 PHASE
ACPM	8021	AVIATION OPERATIONS	4	3000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES	4	3000 PHASE
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)	4	3000 PHASE
ACPM	8024	ASSAULT SUPPORT	4	3000 PHASE
ACPM	8025	AIR RECONNAISSANCE	4	3000 PHASE
ACPM	8026	ELECTRONIC WARFARE	4	3000 PHASE

ACPM	8027	ANTI-AIR WARFARE		4	3000 PHASE
ACPM	8028	AVIATION GROUND SUPPORT		4	3000 PHASE
ACPM	8040	THREAT		1	2000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	2000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	2000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	2000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	2000 PHASE
ACPM	8045	RADIO ELECTRONIC COMBAT THREAT TO THE MAGTF		4	2000 PHASE
ACPM	8060	MAGTF		1	3000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	3000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	3000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	3000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	3000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	3000 PHASE
ACPM	8080	JOINT AIR OPERATIONS		1	3000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	3000 PHASE
ACPM	8082	THEATER AIR GROUND SYSTEM (TAGS)		4	3000 PHASE
ACPM	8083	JOINT FIRE SUPPORT		4	3000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	3000 PHASE
ACPM	8085	JOINT TARGETING		4	3000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	3000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	3000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	3000 PHASE
TOTAL ACPM STAGE			39	141	

2.16 T&R ATTAIN AND MAINTAIN TABLES

LAAD 7204 OFFICER
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX
CORE SKILL (2000 Phase)

T&R EVENT INFORMATION	STAGE	CODE	REFLY	BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING		
				STAGE	CODE	STAGE	CODE	STAGE	CODE				
Understand principles of MG employment	PCDR	2000	*	PCDR	2000	PCDR	PCDR	PCDR	PCDR	-	-		
Conduct day and night navigation		2001	*		2001					-	-		
Perform mounted land navigation		2002	*		2002					2001	2001		
Properly handle EKMS software		2003	*		2003					-	-		
Operate organic communications data transfer device		2004	*		2004					2003	2003		
Establish VHF Communications		2005R	180		2005R					2005R	2005R	2003,2004	2003,2004
Establish HF Communications		2006R	180		2006R					2006R	2006R	2003,2004	2003,2004
Operate the MRC-148		2007R	180		2007R					2007R	2007R	2003,2004,2006	2003,2004, 2006
Use proper communications procedures		2008R	180		2008R					2008R	2008R	2003,2004,2005,2006	2003,2004,2005,2006
State emergency destruction procedures for all organic command post equipment		2009	*		2009					2009	2009	2009	2009
Demonstate an understanding of operational terms, unit symbols and graphic control measures		2010	*		2010					2010	2010	-	-
Conduct detailed IPB		2011	*		2011					2011	2011	2010	2010
Issue operations order	2012R	180	2012R	2012R	2012R	2010,2011	2010,2011						

T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
	T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE		
Establish and operate a Platoon command post		2013R	180		2013R		2013R		2013R	2001,2002,2003,2004,2005,2006,2007,2008,2009	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009
Understand command and support relationships		2014	*		2014					-	-
Plan for Force Protection measures for the LAAD unit		2015	*		2015					2000	2000
Familiarize the LAAD platoon commander with concepts of employment in the air defense role		2016	*		2016					-	-
Understand Rules of Engagement		2017	*		2017					-	-
Understand employment of a LAAD unit in point defense		2018	*		2018					2014,2016	2014,2016
Understand employment of a LAAD unit in surveillance and gap filler role		2019	*		2019					2014,2016	2014,2016
Understand employment of a LAAD unit in defense of maneuver unit role		2020	*		2020					2014,2016	2014,2016
Understand employment of a LAAD unit in convoy defense		2021	*		2021					2014,2016	2014,2016
Understand employment of a LAAD unit in a Base Defense Zone (BDZ)		2022	*		2022					2014,2016	2014,2016
Understand employment of a LAAD unit in defense of the Amphibious Ready Group (ARG)		2023	*		2023					2014,2016	2014,2016
Understand employment of a LAAD platoon in General		2024	*		2024					2014,2016	2014,2016

T&R EVENT INFORMATION	STAGE	CODE	REFLY	BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
				STAGE	CODE	STAGE	CODE	STAGE	CODE		
Support											
Understand employment of a LAAD platoon in Direct Support		2025	*		2025					2014,2016	2014,2016
Demonstrate the engagement process for the Stinger missile		2026	*		2026					-	-
Engage aircraft in the IMTS		2027R	180		2027R		2027R		2027R	2026	2026
Fire the Stinger Launch Simulator (STLS)		2028	*		2028					2026,2027	2026
Engage aerial target with a live Stinger missile		2029R	1095		2029R		2029R		2029R	2026,2027	2026
Develop and implement a unit training plan		2100R	180		2100R		2100R		2100R	-	-
Understand the Air Tasking Order (ATO)		2101	*		2101					-	-
Understand the Airspace Control Plan (ACP)		2102	*		2102					-	-
Understand the Airspace Control Order (ACO)		2103	*		2103					-	-
Understand the Area Air Defense Plan	STFO	2104	*	STFO	2104	STFO		STFO		-	-
Understand OPTASKLINK		2105	*		2105					-	-
Understand TBMCS		2106	*		2106					-	-
Understand tactical level logistic considerations		2107	*		2107					-	-
Demonstrate an understanding of the MAW		2108	*		2108					-	-
Demonstrate an understanding of the GCE		2109	*		2109					-	-

T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
	T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE		
Establish a LAAD Battery command post	BCDR	2200R	365	BCDR	2200R	BCDR	2200R	BCDR	2200R	2001,2002,2003,2004,2005,2006,2007,2008,2009,2013	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2013
Develop a communications plan for a LAAD battery		2201R	365		2201R		2201R		2201R	-	-
Develop and issue an operations order for a LAAD battery		2202R	365		2202R		2202R		2202R	2010,2011,2010,2201	2010, 2011,2010, 2201
Understand employment of a LAAD battery in General Support		2203	*		2203					2014,2016,2024	2014,2016,2024
Understand employment of a LAAD battery in Direct Support		2204	*		2204					2014,2016,2025	2014,2015,2025
Operate Blue Force Tracker equipment	C2SYS	2922	*	C2SYS	2922	C2SYS		C2SYS		-	-
Set up and establish communications utilizing an IRC network		2940	*		2940					-	-
Operate C2 Personal Computer (C2PC)		2921	*		2921					-	-
Operate Command Post of the Future		2923	*		2923					-	-
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		
Employ a LAAD platoon in point defense	GBAD	3010R	365	GBAD	3010R	GBAD	3010R	GBAD	3010R	2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2017,2018	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2018

T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Employ a LAAD platoon in surveillance and gap filler role		3011R	365		3011R		3011R		3011R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2019	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2019
Employ a LAAD platoon in defense of maneuver unit		3012R	365		3012R		3012R		3012R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010, 2011,2012, 2013,2017, 2020	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2020
Employ a LAAD platoon in convoy defense		3013R	365		3013R		3013R		3013R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010, 2011,2012,2013, 2017,2021	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011, 2012,2013, 2017,2021
Employ a LAAD platoon in a Base Defense Zone (BDZ)		3014R	365		3014R		3014R		3014R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2022	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009, 2010,2011, 2012,2013, 2017,2022
Serve as a Watch Officer in a LAAD command post for GBAD		3015R	365		3015R		3015R		3015R	2014,2016	2014,2016
Employ a LAAD battery in point defense		3020R	365		3020R		3020R		3020R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2018,3010	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2012, 2013,2017,2018, 3010
Employ a LAAD battery in surveillance and gap filler role		3021R	365		3021R		3021R		3021R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2019,3011	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2012, 2013,2017,2019, 3011
Employ a LAAD battery in defense of maneuver unit		3022R	365		3022R		3022R		3022R	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2020,3012	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2012, 2013,2017,2020,3012

T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Employ a LAAD battery in convoy defense		3023R	365		3023R		3023R		3023R	2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2017,2021,3013	2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2017,2021,3013
Employ a LAAD battery in a Base Defense Zone (BDZ)		3024R	365		3024R		3024R		3024R	2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2017,2022,3014	2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2017,2022,3014
Employ platoon in mounted and dismounted patrols	ABGD	3100R	365	ABGD	3100R	ABGD	3100R	ABGD	3100R	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017
Establish and operate Entry Control Point/Vehicle Check Point		3101R	365		3101R		3101R		3101R	2000,2003,2004,2005,2008,2009,2015,2017	2000,2003,2004,2005,2008,2009,2015,2017
Employ a LAAD platoon in Ground Defense		3102R	365		3102R		3102R		3102R	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2013,2015,2017,3100,3101	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2013,2015,2017,3100,3101
Employ a LAAD Platoon as a Quick Reaction Force		3103R	365		3103R		3103R		3103R	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3100	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3100
Establish a Base Defense Operations Center		3115R	365		3115R		3115R		3115R	2000,2003,2004,2005,2006,2008,2009,2010,2013,2014,2015	2000,2003,2004,2005,2006,2008,2009,2010,2013,2014,2015
Serve as a Watch Officer in a Base Defense Operations Center (BDOC)		3116R	365		3116R		3116R		3116R	2000,2014,2015,2017	2000,2014,2015,2017
Employ a LAAD Battery in Ground Defense		3120R	365		3120R		3120R		3120R	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3102,3115	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3102,3115
CORE PLUS SKILL (4000 Phase)											

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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		
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Employ a LAAD unit in defense of the Amphibious Ready Group (ARG)	GBAD	4000R	540	GBAD	4000R	GBAD	4000R	GBAD	4000R	2016,2017,2023	2016,2017, 2023
Plan for LAAD operations in a Joint/Combined Environment		4001	*		4001						2010,2011,2012,2014, 2015,2016,2017, ACPM-8081, 8082, 8088
Employ a LAAD platoon as a convoy security team	ABGD	4100	*	ABGD	4100	ABGD		ABGD		2000,2001,2002,2003,2004, 2005,2008, 2009,2010,2011,2012,2015,2017	2000,2001,2002,2003, 2004,2005,2008,2009, 2010,2011,2012, 2015,2017
Conduct a cordon and search		4101	*		4101						2000,2002,2003,2004, 2005,2008,2010,2011, 2012,2015,2017,3100

2.17 T&R SYLLABUS MATRIX. The below matrix summarizes the syllabus training requirements by phase, core skills and events.

AAD 7204 SYLLABUS MATRIX																	
STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TY P E	#	OPTI ON				#	T I M E	#	T I M E				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																	
BLDO	1000	State capabilities and limitations of the Stinger missile system	B	E	L	-	-	-	*	0	0	3	-	-	-	-	LDBO101
BLDO	1001	Inspect a stinger missile	B	E	L	-	-	-	*	0	0.5	0.5	-	(1) FIELD HANDLING TRAINER (FHT), (1) TRAINING GRIP-STOCK, (1) DUMMY BCU	-	-	LDBO102
BLDO	1002	Convert a Stinger missile round to a ready round	B	E	L	-	-	-	*	0	0.5	0.5	-	(1) FHT	-	-	LDBO103
BLDO	1003	Understand hang fire, miss-fire, and dud procedure for the Stinger missile	B	E	L	-	-	-	*	0	0	1	-	-	-	-	LDBO104
BLDO	1004	Understand the LAAD IFF operating system and subsystem	B	E	L	-	-	-	*	0	0	4	-	(1) IFF SYSTEM	-	-	LDBO105

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON				#	TIM E	#	TIM E				
BLDO	1005	Operate the Stinger Night Sight	B	E	L	-	-	-	*	0	0	1	-	(1) STINGER NIGHT SIGHT	-	LDBO106		
BLDO	1006	Operate VHF Communications	B	E	L	-	-	-	*	0	0	8	-	(2) VHF RADIO	-	LDBO110		
BLDO	1007	Troubleshoot VHF Communications	B	E	L	-	-	-	*	0	0	1	1006	(2) VHF RADIO	-	LDBO111		
BLDO	1008	Operate HF Communications	B	E	L	-	-	-	*	0	0	14	-	(2) HF RADIO	-	LDBO112		
BLDO	1009	Troubleshoot HF Communications	B	E	L	-	-	-	*	0	0	2	1008	(2) HF RADIO	-	LDBO113		
BLDO	1010	Perform basic communications	B	E	L	-	-	-	*	0	0	1	1006,1007,1008,1009	(2) VHF RADIO, (2) HF RADIO	-	LDBO114		
BLDO	1011	Understand proper handling of EKMS materials	B	E	L	-	-	-	*	0	0	3.5	-	-	-	LDBO116		

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	T I M E	#	T I M E				
BLDO	1012	Understand the emergency destruction procedures for the Stinger missile and all ancillary LAAD equipment	B	E	L	-	-	-	*	0	0	0	0	1	-	-	-	LDBO117	
BLDO	1013	Operate a military Global Positioning System	B	E	L	-	-	-	*	0	0	0	0	12	-	(1) GLOBAL POSITIONING SYSTEM	-	LDBO126	
BLDO	1014	Understand operational terms, unit symbols and graphic/control measures	B	E	L	-	-	-	*	0	0	0	0	4	-	-	-	LDBO130	
BLDO	1015	Understand LAAD employment in an air defense role	B	E	L	-	-	-	*	0	0	0	0	4	-	-	-	LDBO137	

AAD 7204 SYLLABUS MATRIX																			
STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
BLDO	1016	Identify manual cross-tell early warning information	B	E	L	-	-	-	*	0	0	2	-	-	-	-	-	LDBO131	
BLDO	1017	Understand the structure and responsibilities of the LAAD Bn.	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	LDBO134	
BLDO	1018	Understand the Marine Air Command and Control System	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1019	Understand the Tactical Air Command Center (TACC)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1020	Understand the Direct Air Support Center (DASC)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1021	Understand the Tactical Air	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV		
	CODE	TITLE			TYP E	#	OPTI ON				#	TIM E	#	TIM E					#	TIM E
		Operation Center (TAOC)																		
BLDO	1022	Understand the Marine Air Traffic Control (MATC)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		
BLDO	1023	Understand the Marine Unmanned Aerial Vehicle Squadron (VMU)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		
BLDO	1024	Understand the Marine Wing Communications Squadron (MWCS)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		
BLDO	1025	Understand Control of Aircraft and Missiles	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		
BLDO	1026	Understand Offensive Air Support (OAS)	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		
BLDO	1027	Understand Assault	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-		

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
		Support																	
BLDO	1028	Understand Air Reconnaissance	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1029	Understand Electronic Warfare	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1030	Understand Anti-air Warfare	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1031	Understand Aviation Ground Support	B	E	L	-	-	-	*	0	0	1	-	-	-	-	-	-	
BLDO	1032	Understand IPB	B	E	L	-	-	-	*	0	0	2	-	-	1000,1014,1015,1017,1018,1019,1020,1021,1022,1023,1024,1025,1030,1032	-	-	BMT215	
BLDO	1033	Conduct air defense employment planning for a LAAD platoon	B	E	L	-	-	-	*	0	0	24	-	-	-	-	-	LDBO140	
BLDO	1034	Conduct Aircraft Identification	B	E	L	-	-	-	*	0	18	20	-	-	AUDIO VISUAL EQUIP	-	-	LDBO160	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON				#	TIM E	#	TIM E				
BLDO	1035	Engage aircraft with stinger missile system in the IMTS	B	E	L	-	-	-	*	0	16	16	1000,1001,1002,1003,1004	IMPROVED MOVING TARGET SIMULATOR (IMTS)	-	LDBO161		
BLDO	1036	Engage live aerial target with live stinger missile	B	E	L	-	-	-	*	0	0	8	1035	(1) LIVE STINGER MISSILE, (1) AIRCRAFT DRONE	-	LDBO162		
BLDO	1037	Establish an AMANPAD S team position	B	E	L	-	-	-	*	0	0	4	1000,1006,1007,1010,1011,1012,1013,1015,1016,1017	(1) A-MANPAD	-	BGNR140		
BLDO	1038	Establish a Section leader position	B	E	L	-	-	-	*	0	0	4	1000,1006,1007,1008,1009,1010,1011,1012,1013,1015,1016,1017,1037	(1) TACTICAL VEHICLE, (1) TACTICAL LOAD OUT FOR A SECTION LEADER	-	-		
BLDO	1039	Establish a Platoon Commander Position	B	E	L	-	-	-	*	0	0	6	1000,1006,1007,1008,1009,1010,1011,1012,1013,1015,1016,1017,1037,1038	(1) MRC-148, (1) TACTICAL LOAD OUT FOR A PLATOON COMMANDER	-	BMT221		
BLDO	1040	Understand fundamentals of Tactical Data Links (11, 11B, 16, JRE)	B	E	L	-	-	-	*	0	0	1	-	-	-	-		
TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS)										0	0	0	35.0	0	162.0			

AAD 7204 SYLLABUS MATRIX																		
STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON				#	T I M E	#	T I M E				
CORE SKILL TRAINING (2000 PHASE EVENTS)																		
PLATOON COMMANDER (PGDR)																		
PCDR	2000	Understand principles of MG employment	B	-	L	-	-	-	*	0	0	1	-	-	-	LDBO138		
PCDR	2001	Conduct day and night navigation	B		L	-	-	-	*	0	0	2	-	(1) MAP, (1) COMPASS, (1) GPS	-	NAV211		
PCDR	2002	Perform mounted land navigation	B		L	-	-	-	*	0	0	2	2001	(1) TACTICAL VEHICLE, (1) MAP, (1) GPS	2001	LDBO127		
PCDR	2003	Properly handle EKMS software	B		L	-	-	-	*	0	0	1	-	(1) CMS SOFTWARE	-	COM200		
PCDR	2004	Operate organic communications data transfer device	B		L	-	-	-	*	0	0	1	2003	(1) ORGANIC DTD	2003	COM201		
PCDR	2005	Establish VHF Communications	B, R		L	-	-	-	180	0	0	4	2003,2004	(2) ORGANIC VHF RADIOS	2003,2004	COM203		
PCDR	2006	Establish HF Communications	B, R		L	-	-	-	180	0	0	4	2003,2004	(2) ORGANIC HF RADIOS	2003,2004	COM203		
PCDR	2007	Operate the MRC-148	B, R		L	-	-	-	180	0	0	4	2003,2004,2006	(1) MRC-148	2003,2004, 2006	COM204		

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON				#	TIM E	#	TIM E				
PCDR	2008	Use proper communications procedures	B	R	L	-	-	-	180	0	0	0	1	2003,2004,2005,2006	(2) ORGANIC VHF RADIO, (2) ORGANIC HF RADIO	2003,2004,2005,2006	COM206	
PCDR	2009	State emergency destruction procedures for all organic command post equipment	B		L	-	-	-	*	0	0	0	0.5	-	-	-	COM207	
PCDR	2010	Demonstrate an understanding of operational terms, unit symbols and graphic control measures	B	E	L	-	-	-	*	0	0	0	3	-	-	-	CTM210	
PCDR	2011	Conduct detailed IPB	B		L	-	-	-	*	0	0	0	4	2010	(1) MAP	2010	BMT215	
PCDR	2012	Issue operations order	B	R	L	-	-	-	180	0	0	0	3	2010,2011	(1) TERRAIN MODEL	2010,2011	BMT220	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV		
	CODE	TITLE		TYP E	#	OPTI ON				#	T I M E	#	T I M E					#	T I M E
PCDR	2013	Establish and operate a Platoon command post	B, R	L	-	-	-	180	0	0	2	2001,2002,2003,2004,2005,2006,2007,2008,2009	(1) MRC-148, (1) TACTICAL LOAD OUT FOR A PLATOON COMMANDER	2001,2002,2003,2004,2005,2006,2007,2008,2009	BMT221				
PCDR	2014	Understand command and support relationships	B	L	-	-	-	*	0	0	2	-	-	-	BMT314				
PCDR	2015	Plan for Force Protection measures for the LAAD unit	B	L	-	-	-	*	0	0	3	2000	-	2000	-				
PCDR	2016	Familiarize the LAAD platoon commander with concepts of employment in the air defense role	B	L	-	-	-	*	0	0	1	-	-	-	BMT223				
PCDR	2017	Understand Rules of Engagement	B	L	-	-	-	*	0	0	2	-	-	-	CTM266				

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
PCDR	2018	Understand employment of a LAAD unit in point defense	B	L	-	-	-	*	0	0	0	2	2014,2016	-	2014,2016	BMT225		
PCDR	2019	Understand employment of a LAAD unit in surveillance and gap filler role	B	L	-	-	-	*	0	0	0	2	2014,2016	-	2014,2016	BMT227		
PCDR	2020	Understand employment of a LAAD unit in defense of maneuver unit role	B	L	-	-	-	*	0	0	0	2	2014,2016	-	2014,2016	BMT229		
PCDR	2021	Understand employment of a LAAD unit in convoy defense	B	L	-	-	-	*	0	0	0	2	2014,2016	-	2014,2016	BMT231		

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	-GRO UND/ ACAD EMIC EVEN TS	SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV		
	CODE	TITLE		TYP E	#	OPTI ON				#	T I M E	#	TIM E					#	TIM E
PCDR	2022	Understand employment of a LAAD unit in a Base Defense Zone (BDZ)	B	L	-	-	-	*	0	0	2	2014,2016	-	2014,2016	-				
PCDR	2023	Understand employment of a LAAD unit in defense of the Amphibious Ready Group (ARG)	B	L	-	-	-	*	0	0	2	2014,2016	-	2014,2016	-				
PCDR	2024	Understand employment of a LAAD platoon in General Support	B	L	-	-	-	*	0	0	2	2014,2016	-	2014,2016	-				
PCDR	2025	Understand employment of a LAAD platoon in Direct Support	B	L	-	-	-	*	0	0	2	2014,2016	-	2014,2016	-				

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
PCDR	2026	Demonstrate the engagement process for the Stinger missile	B	L	-	-	-	*	0	0	1	1	-	(1) TRACKING HEAD TRAINER (THT)	-	GUN271		
PCDR	2027	Engage aircraft in the IMTS	B R	L	-	-	-	180	0	0	3	3	2026	IMPROVED MOVING TARGET SIMULATOR (IMTS)	2026	GUN272		
PCDR	2028	Fire the Stinger Launch Simulator (STLS)	B	L	-	-	-	*	0	0	0	1	2026,2027	(1) STINGER LAUNCH SIMULATOR (STLS)	2026	GUN274		
PCDR	2029	Engage aerial target with a live Stinger missile	B R	L	-	-	-	1095	0	0	0	1	2026,2027	(1) LIVE STINGER MISSILE, (1) AIRCRAFT DRONE	2026	GUN275		
TOTAL CORE SKILL PLATOON COMMANDER STAGE (PCDR)									0	0	0	4	30	62.5				
STAFF OFFICER (STFO)																		
STFO	2100	Develop and implement a unit training plan	B R	L	-	-	-	180	0	0	0	4	-	-	-	-	CMT300	
STFO	2101	Understand the Air Tasking Order (ATO)	B	L	-	-	-	*	0	0	0	1	-	-	-	-	BMT305	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
STFO	2102	Understand the Airspace Control Plan (ACP)	B	-	L	-	-	-	*	0	0	1	-	-	-	-	-	BMT305	
STFO	2103	Understand the Airspace Control Order (ACO)	B	-	L	-	-	-	*	0	0	1	-	-	-	-	-	BMT305	
STFO	2104	Understand the Area Air Defense Plan	B	-	L	-	-	-	*	0	0	1	-	-	-	-	-	BMT305	
STFO	2105	Understand OPTASKLINK	B	-	L	-	-	-	*	0	0	1	-	-	-	-	-	BMT305	
STFO	2106	Understand TBMCS	B	-	L	-	-	-	*	0	0	1	-	-	-	-	-	BMT305	
STFO	2107	Understand tactical level logistic considerations	B	-	L	-	-	-	*	0	0	10	-	-	-	-	-	BMT313	
STFO	2108	Demonstrate an understanding of the MAW	B	E	L	-	-	-	*	0	0	5	-	-	-	-	-	BMT315	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYPE	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
STFO	2109	Demonstrate an understanding of the GCE	B	E	L	-	-	*	0	0	0	0	5	-	-	-	BMT316	
TOTAL SETUP SKILLS STAGE (SETUP)									0	0	0	0	1	30.				
BATTALION COMMANDER (BCDR)																		
BCDR	2200	Establish a LAAD Battery command post	B	-	L	-	-	365	0	0	0	1.0	2001,2002,2003,2004,2005,2006,2007,2008,2009,2013	(1) MRC-148, (1) TACTICAL LOAD OUT FOR A BATTERY COMMANDER, (1) CP TENT	2001,2002,2003,2004,2005,2006,2007,2008,2009,2013	-	-	
BCDR	2201	Develop a communications plan for a LAAD battery	B	-	L	-	-	365	0	0	0	1.0	-	-	-	-	-	
BCDR	2202	Develop and issue an operations order for a LAAD battery	B	-	L	-	-	365	0	0	0	1.0	2010,2011,,2201	-	2010, 2011,, 2201	-	-	
BCDR	2203	Understand employment of a LAAD battery in General Support	B	-	L	-	-	*	0	0	0	2.0	2014,2016,2024	-	2014,2016,2024	-	-	

AAD 7204 SYLLABUS MATRIX																		
STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
BCDR	2204	Understand employment of a LAAD battery in Direct Support	B	-	L	-	-	*	0	0	0	0	5	6.0	2014,2016,2025	-	2014,2015,2025	-
TOTAL BATTALION COMMANDER SKILLS STAGE (BCDR)									0	0	0	0	5	6.0				
COMMAND AND CONTROL SYSTEMS (C2SYS)																		
C2SYS	2922	Operate Blue Force Tracker equipment	B	-	G	-	-	*	2	0	0	0	0	0	-	(1) BFT	-	-
C2SYS	2940	Set up and establish communications utilizing an IRC network	B	-	G	-	-	*	2	0	0	0	0	0	-	-	-	-
C2SYS	2921	Operate C2 Personal Computer (C2PC)	B	-	G	-	-	*	1	5	0	0	0	0	-	(1) C2PC COMPUTER	-	-
C2SYS	2923	Operate Command Post of the Future	B	-	G	-	-	*	4	0	0	0	0	0	-	(1) CPOF COMPUTER	-	-
TOTAL COMMAND AND CONTROL SYSTEMS SKILLS STAGE (C2SYS)									0	9	0	0.0	4	0.0				
TOTAL CORE SKILL PHASE (2000 PHASE)									0	9	0	4.0	4	98.5				

AAD 7204 SYLLABUS MATRIX																		
STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																		
GROUND BASED AIR DEFENSE (GBAD)																		
GBAD	3010	Employ a LAAD platoon in point defense	B R	E	L	-	-	-	365	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2018	{1} LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2018	BMT225		
GBAD	3011	Employ a LAAD platoon in surveillance and gap filler role	B R	E	L	-	-	-	365	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2019	{1} LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2019	BMT227		
GBAD	3012	Employ a LAAD platoon in defense of maneuver unit	B R	E	L	-	-	-	365	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010, 2011,2012, 2013,2017, 2020	{1} LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010, 2011,2012, 2013,2017, 2020	BMT229		
GBAD	3013	Employ a LAAD platoon in convoy defense	B R	E	L	-	-	-	365	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010, 2011,2012,2013, 2017,2021	{1} LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011, 2012,2013, 2017,2021	BMT231		

AAD 7204 SYLLABUS MATRIX																			
STAGE	EVENT		P O I L	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
GBAD	3014	Employ a LAAD platoon in a Base Defense Zone (BDZ)	B R	E	L	-	-	-	365	0		0		12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2022	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009, 2010,2011, 2012,2013, 2017,2022	-	
GBAD	3015	Serve as a Watch Officer in a LAAD command post for GBAD	B R	E	L	-	-	-	365	0		0		8	2014,2016	(1) LAAD COMMAND POST	2014,2016	-	
GBAD	3020	Employ a LAAD battery in point defense	B R	E	L	-	-	-	365	0		0		12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2018,3010	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2 012, 2013,2017,2018, 3010	-	
GBAD	3021	Employ a LAAD battery in surveillance and gap filler role	B R	E	L	-	-	-	365	0		0		12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2019,3011	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2 012, 2013,2017,2019, 3011	-	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
GBAD	3022	Employ a LAAD battery in defense of maneuver unit	B R	E	L	-	-	-	365	0	0	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2020,3012	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2 012, 2013,2017,2020,3 012	-	
GBAD	3023	Employ a LAAD battery in convoy defense	B R	E	L	-	-	-	365	0	0	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2021,3013	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2 012, 2013,2017,2021,3 013	-	
GBAD	3024	Employ a LAAD battery in a Base Defense Zone (BDZ)	B R	E	L	-	-	-	365	0	0	0	0	12	2001,2002,2003,2004, 2005,2006,2007,2008, 2009,2010,2011,2012,2013, 2017,2022,3014	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2001,2002, 2003,2004, 2005,2006, 2007,2008, 2009,2010,2011,2 012, 2013,2017,2022,3 014	-	
TOTAL GROUND BASED AIR DEFENSE SKILLS STAGE (GBAD)										0	0	0	0	1 1	128 .0				
AIR BASE GROUND DEFENSE (ABGD)																			

AAD 7204 SYLLABUS MATRIX																		
STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
ABGD	3100	Employ platoon in mounted and dismounted patrols	B R	E	L	-	-	-	365	0	0		12	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017	BMT232	
ABGD	3101	Establish and operate Entry Control Point/Vehicle Check Point	B R	E	L	-	-	-	365	0	0		12	2000,2003,2004,2005,2008,2009,2015,2017	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2003,2004,2005,2008,2009,2015,2017	BMT232	
ABGD	3102	Employ a LAAD platoon in Ground Defense	B R	E	L	-	-	-	365	0	0		12	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2013,2015,2017,3100,3101	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2013,2015,2017,3100,3101	BMT232	
ABGD	3103	Employ a LAAD Platoon as a Quick Reaction Force	B R	E	L	-	-	-	365	0	0		12	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3100	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3100	BMT232	
ABGD	3115	Establish a Base Defense Operations Center	B R	E	L	-	-	-	365	0	0		12	2000,2003,2004,2005,2006,2008,2009,2010,2013,2014,2015	(1) CP TENT, (1)CPOF COMPUTER, ORGANIC HF AND VHF RADIOS, (1) BFT	2000,2003,2004,2005,2006,2008,2009,2010,2013,2014,2015	-	

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STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV	
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	T I M E	#	T I M E					
ABGD	3116	Serve as a Watch Officer in a Base Defense Operations Center (BDOC)	B	R	E	L	-	-	-	365	0	0	0	8	2000,2014,2015,2017	(1) LAAD COMMAND POST	2000,2014,2015,2017	-		
ABGD	3120	Employ a LAAD Battery in Ground Defense	B	R	E	L	-	-	-	365	0	0	0	12	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3102,3115	(1) LAAD BATTERY WITH COMPLETE TACTICAL LOAD OUT	2000,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017,3102,3115	BMT237		
TOTAL AIR BASE GROUND DEFENSE SKILLS STAGE (ABGD)											0	0	0	0	7	80.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)											0	0	0	0	1	208.0				
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)											0	0	0	0	0	0				
CORE PLUS SKILLS (GBAD) (ABGD)																				
GBAD	4000	Employ a LAAD unit in defense of the Amphibious Ready Group (ARG)	B	R	-	-	-	-	-	540	0	0	0	12	2016,2017,2023	LAAD UNIT WITH COMPLETE TACTICAL LOAD OUT	2016,2017, 2023	-		

AAD 7204 SYLLABUS MATRIX																		
STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYPE	#	OPTI ON			#	TIME	#	TIME	#	TIME				
GBAD	4001	Plan for LAAD operations in a Joint/Combined Environment	B / R	-	-	-	-	*	0	0	0	0	6	2010,2011,2012,2014,2015,2016,2017, ACPM-8081, 8082, 8088	-	2010,2011,2012,2014,2015,2016, 2017	BMT405	
ABGD	4100	Employ a LAAD platoon as a convoy security team	B / R	-	-	-	-	*	0	0	0	0	12	2000,2001,2002,2003,2004, 2005,2008, 2009,2010,2011,2012,2015,2017	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2001,2002,2003,2004,2005,2008,2009,2010,2011,2012,2015,2017	BMT232	
ABGD	4101	Conduct a cordon and search	B / R	-	-	-	-	*	0	0	0	0	12	2000,2002,2003,2004,2005,2008,2010,2011,2012,2015,2017,3100	(1) LAAD PLATOON WITH COMPLETE TACTICAL LOAD OUT	2000,2002,2003,2004,2005,2008,2010,2011,2012,2015,2017,3100	-	
SCHL	6005	LAAD Enhancement Training Instructor Course	B / R	-	-	-	-	*	0	0	0	0	-	-	-	-	-	
SCHL	6021	Multi-TDL Advanced Joint Interoperability Course	B / R	-	-	-	-	*	0	0	0	0	-	-	-	-	-	

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	T I M E	#	T I M E				
SCHL	6015	Joint Air Operation Center Command and Control Course	B , R	-	-	-	-	*	0	0	-	-	-	-	-	-	-	
SCHL	6000	Weapons and Tactics Instructor Course	B , R	-	-	-	-	*	0	0	-	-	-	-	-	-	-	
SCHL	6077	Antiterrori sm Officer Advanced Course	B , R	-	-	-	-	*	0	0	-	-	-	-	-	-	-	
SCHL	6079	JRE-GW Operators Course	B , R	-	-	-	-	*	0	0	-	-	-	-	-	-	-	
TOTAL AIRBORNE COMMAND AND CONTROL SKILLS STAGE (ABNC2)									0	0	0	0	1	42.				
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)									0	0	0	0	1	42.				
									0	0	0	0	0	0				
TOTAL 2000, 3000, AND 4000 PHASE									0	9	0	4.0	7	348.				
									0	5	0	0	0	0				

AAD 7204 SYLLABUS MATRIX																			
STAGE	EVENT		P O J	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	T I M E	#	T I M E				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*	0	0	0	0	2.0	Recommended by SI or WT1	-	-	-	
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*	0	0	0	0	1.0	Recommended by SI or WT1	-	-	-	
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*	0	0	0	0	2.0	Recommended by SI or WT1	-	-	-	
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	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5130	Develop a training plan	B R	-	G	-	-	D	365	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8.0				

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STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	0	# R E F I	# R E F I				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
CERTIFICATIONS (CERT)																			
CERT	6001	Certify as Platoon Commander	B	E	-	-	-	-	*	0	0	63			2000,2001,2002,2003, 2004,2005,2006,2007, 2008,2009,2010,2011, 2012,2013,2014,2015, 2016,2017,2018,2019, 2020,2021,2022,2023, 2024,2025,2026,2027, 2028,2029,2030,ACPM-8000,ACPM-8020, ACPM-8040,ACPM-8062,ACPM-8065, ACPM-8083,ACPM-8084,C2SYS-2922,C2SYS-2940	-	-		CERT600
CERT	6002	Certify as Staff Officer	B	E	-	-	-	-	*	0	0	30			2100,2101,2102,2103, 2104,2105,2106,2107, 2108,2109, ACPM-8061, ACPM-8063, ACPM-8064, ACPM-8086, ACPM-8088, C2SYS-2921, C2SYS-2923	-	-		CERT602
CERT	6003	Certify as Battery Commander	B	E	-	-	-	-	*	0	0	13			2200,2201,2202,2203, 2204,ACPM-8080,ACPM-8081,ACPM-8082,ACPM-8085,ACPM-8087	-	-		CERT602
TOTAL CERTIFICATIONS STAGE (CERT)										0	0	0	0	4	106 .0				

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE		TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
QUALIFICATIONS (QUAL)																		
QUAL	6201	Qualify as Platoon Commander in GBAD	B , R	E	-	-	-	365	0	0	0	60	3010,3011,3112,3113,3114	-	-	-	-	
QUAL	6202	Qualify as Staff Officer in GBAD	B , R	E	-	-	-	365	0	0	0	8	3015	-	-	-	-	
QUAL	6203	Qualify as Battery Commander in GBAD	B , R	E	-	-	-	365	0	0	0	60	3020,3021,3022,3023,3024	-	-	-	-	
QUAL	6211	Qualify as Platoon Commander in ABGD	B , R	E	-	-	-	365	0	0	0	48	3100,3101,3102,3103	-	-	-	-	
QUAL	6212	Qualify as Staff Officer in ABGD	B , R	E	-	-	-	365	0	0	0	20	3115,3116	-	-	-	-	
QUAL	6213	Qualify as Battery Commander in ABGD	B , R	E	-	-	-	365	0	0	0	12	3120	-	-	-	-	
TOTAL QUALIFICATIONS STAGE (QUAL)									0	0	0	0	4	208.0				
DESIGNATIONS (DESG)																		
DESG	6101	Designate as Platoon Commander	B	-	-	-	-	L	*				1.0	6201	-	-	-	DESG601

AAD 7204 SYLLABUS MATRIX

STAGE	EVENT		P O I	E	DEVICE			CON D	REF LY	GRO UND/ ACAD EMIC EVEN TS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYP E	#	OPTI ON			#	T I M E	#	TIM E	#	TIM E				
DESG	6102	Designate as Staff Officer	B	-	-	-	-	L	*					1.0	6202	-	-	DESG603	
DESG	6103	Designate as Battery Commander	B	-	-	-	-	L	*	0		0		2.0	6203	-	-	DESG603	
DESG	6319	Designate as LAAD Enhancement Training Instructor	B	-	-	-	-	L	*	0		0		2.0	SCHL-6005	-	-	DESG672	
DESG	6320	Designation as a Basic Instructor	B	-	-	-	-	L	*	0		0		2.0	IUT-5000,IUT-5010,IUT-5020,CERT-6001	-	-	-	
DESG	6321	Designation as a Senior Instructor	B	-	-	-	-	L	*	0		0		2.0	IUT-5100,IUT-5110,IUT-5120,IUT-5130,CERT-6001,SCHL-6005	-	-	-	
DESG	6322	Designate as Weapons and Tactics Instructor	B	-	-	-	-	L	*	0		0		2.0	SCHL-6000	-	-	DESG677	
TOTAL DESIGNATIONS STAGE (DESG)										0	0	0	0	1	12.5				
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS PHASE (RQCD)										0	0	0	0	1	118.9				

2.18 SYLLABUS EVALUATION FORM. Evaluations forms will be maintained by the battalion WTPP and is available online at the following website:

<https://www.intranet.tecom.usmc.mil/sites/mawts1/departments1/newc3/gbad/default.aspx>

2.19 TRAINING DEVICE ESSENTIAL SUBSYSTEMS MATRIX (EESM)

2.19.1 Events designated by an "S" in the event header shall be conducted in a training device equipped to meet the objectives listed in the event description; each event requires specific simulator capabilities. A simulator is categorized as Full Mission Capable (FMC), Partial Mission Capable (PMC), or Non-Mission Capable (NMC) based on the status of mission essential simulator subsystems. The following definitions apply:

2.19.1.1 FMC. All simulator subsystems required to meet training objectives for an event to be conducted are installed and operating properly. A FMC subsystem can be used to conduct any and all S-coded events in this syllabus.

2.19.1.2 PMC. The simulator subsystem is not operating properly. Although considered highly desirable, the device is not essential to meet training objectives of an event. While the event can still be completed, the quality of training is degraded. A PMC subsystem can be used to train any and all S-coded events in this syllabus.

2.19.1.3 NMC. The simulator subsystem lacks the capability to complete training objectives due to a critical subsystem or capability being inoperative or not installed. A NMC subsystem cannot be used to conduct any event.

2.19.2 The LAAD community uses the Improved Moving Target Simulator (IMTS) to conduct simulation training. The IMTS is a Low Altitude Air Defense (LAAD) weapons training system that provides computer generated aircraft and computer generated background images in a 360-degree dome. Real-time weapon interface and student action monitoring are provided during scenario execution. This system provides the Stinger gunner the opportunity to maintain proficiency for successful operation of the Stinger Man Portable Air Defense System (MANPADS) by using proper techniques and skills to identify, acquire, track and launch Stinger missiles.

2.19.3 IMTS Failed Subsystem descriptions:

2.19.3.1 Network Server Interface - This subsystem is the heart of the IMTS. When it fails, the entire simulator becomes NMC and cannot support any event training.

2.19.3.2 Visual Subsystem - This subsystem has redundant capability based on its ability to provide 360 degree situational awareness. Tactics, Techniques and Procedures (TTPs) require a 90 degree sector of interest to increase gunner effectiveness. The subsystem consists of two parts - image generator and image projector - that operate independent of each other.

2.19.3.2.1 Image Generator - Consists of 16 identical image generators that generate both aircraft and environmental displays. NMC occurs when 13 or

more of the total 16 image generators fail. PMC occurs when 12 or less image generators fail and the 90 degree sector capability remains.

2.19.3.2.2 Image Projector - Consists of 16 identical image projectors that project the image created in the image generator. NMC occurs when 13 or more of the total 16 image projectors fail. PMC occurs when 12 or less image projectors fail and the 90% sector capability remains.

2.19.3.3 Instrumented Weapon Round - The IMTS can support up to three instrumented missiles at one time. Routinely, scenario training requires one MANPAD team (two Marines).

2.19.3.3.1 Instrumented Missile - IMTS can support up to three instrumented missiles. NMC occurs when 3 of the 3 instrumented missiles fail. PMC occurs when 2 of 3 instrumented missiles fail.

2.19.3.3.2 Instrumented Grip-stock - IMTS can support up to three instrumented grip-stocks. NMC occurs when 3 of the 3 grip-stocks fail. PMC occurs when 2 of 3 grip-stocks fail.

LAAD TRAINING DEVICE ESSENTIAL SUBSYSTEMS MATRIX (EESM)		
FAILED SUB SYSTEM	NMC for:	PMC for:
NETWORK SERVER INTERFACE	All Events	None
AUDIO SUBSYSTEM	No Event	No Event
IMAGE GENERATOR	All Events	All events
IMAGE PROJECTOR	All Events	All Events
INSTRUMENTED MISSILE	All Event	All Events
INSTRUMENTED GRIP-STOCK	All Event	All Events

2.20 EXPENDABLE ORDNANCE REQUIREMENTS

2.20.1 A LAAD Officer is trained in phases 1000, 2000, 2100, and 2200 of the LAAD officer POI. Ordnance requirement for each to complete the Basic POI is provided below.

BASIC POI TOTAL EXPENDABLE ORDNANCE REQUIREMENTS PER INDIVIDUAL			
ORDNANCE	1000 PHASE TOTALS RDS	2000 PHASE TOTALS RDS	3000 PHASE TOTALS RDS
Stinger Missile PL-89, PL-90, or PL-93	1	1	0
VX-99 - Stinger Missile Launch Simulator (STLS)	0	1	0

2.20.2 A LAAD officer undergoing refresher training is to complete R-coded events for the 2000 phase of training. Ordnance requirement for a LAAD officer to complete the Refresher POI is provided below.

REFRESHER POI TOTAL EXPENDABLE ORDNANCE REQUIREMENTS PER INDIVIDUAL			
ORDNANCE	1000 PHASE TOTALS RDS	2000 PHASE TOTALS RDS	3000 PHASE TOTAL RDS
Stinger Missile PL-89, PL-90, or PL-93	NA	1	0
VX-99 - Stinger Missile Launch Simulator (STLS)	NA	1	0

2.21 RANGE REQUIREMENTS

Weapon	Range Requirements
Stinger Missile	Appropriate aerial targets, RCMAT, and/or Remotely Piloted Target Systems (RPVTS) and firing range capable of supporting SHORAD missile systems.