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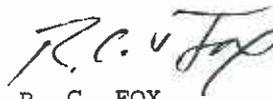
From: Commandant of the Marine Corps
To: Distribution List

Subj: F/A-18 T&R MANUAL

Ref: (a) NAVMC 3500.14B

Encl: (1) Revised page inserts to NAVMC 3500.50A.

1. Purpose. To transmit revised pages to the basic Manual.
2. Action. Chapter 1 of the basic Manual has been revised and is replaced per the reference and Enclosure (1).
3. Information. Significant changes in this revision include the following.
 - a. Consolidates all references to crews or crew definition into a new paragraph entitled "Readiness Reporting." The intent of this new paragraph is to more accurately capture how a commander forms crews that are capable of executing a Mission Essential Task (MET).
 - b. Incorporates greater readiness terminology standardization that applies across all tactical aviation Type/Model/Series (T/M/S).
4. Recommendations. Recommended changes to this publication are invited, and may be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General, Training and Education Command, Aviation Training Division using standard Naval Correspondence or the Automated Message Handling System plain language address: CG TECOM ATD.
5. Applicability. This Manual is applicable to the Marine Corps Total Force.
6. Certification. Reviewed and approved this date.


R. C. FOX
By direction

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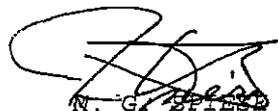
From: Commandant of the Marine Corps
To: Distribution List

Subj: FA-18 T&R MANUAL

Ref: (a) NAVMC 3500.14B

Encl: (1) FA-18 T&R Manual

1. Purpose. To publish revised standards and regulations regarding the training of FA-18 aircrew per the reference.
2. Cancellation. NAVMC 3500.50
3. Information. Highlights of major training and readiness planning considerations included in this publication are as follows:
 - a. Mission Essential Task (MET) incorporation to facilitate MET-based readiness.
 - b. Incorporation of tailored Marine Corps Task List (MCTL).
 - c. Emphasis on Mission Skills to support MET-based reporting.
 - d. Standardized NATOPS and instrument evaluation policy.
 - e. Aviation Career Progression Model (ACPM) training requirements.
4. Recommendations. Recommended changes to this publication are invited, and may be submitted via the syllabus sponsor (MAWTS-1) and the appropriate chain of command to: Commanding General, Training and Education Command, Aviation Training Branch using standard Naval correspondence or the Defense Message System using the following plain language address: CG TECOM QUANTICO VA ATB.
5. Reserve Applicability. This Manual is applicable to the Marine Corps Total Force.
6. Certification. Reviewed and approved this date.


N. G. Spivey
By direction

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CHAPTER 1

FA-18A/C/D TRAINING AND READINESS UNIT REQUIREMENTS

100. VMFA (FA-18A/C) TRAINING AND READINESS UNIT REQUIREMENTS. The goal of Marine Aviation is to attain and maintain combat readiness to support Expeditionary Maneuver Warfare while conserving resources. The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned Mission Essential Tasks (METs). 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.

101. VMFA MISSION. Support the MAGTF Commander by destroying surface targets and enemy aircraft, day or night under all weather conditions during expeditionary, joint or combined operations.

102. VMFA TABLE OF ORGANIZATION (T/O). Refer to Table of Organization 8830 managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength for FA-18A/C units. As of this publication date, FA-18A/C units are authorized:

VMFA Squadron
12 aircraft
19 Pilots

103. VMFA SKILL ABBREVIATIONS. Shading indicates Core Plus/Mission Plus skills.

VMFA Skill Abbreviation	
AA	AIR-TO-AIR
AAD	ACTIVE AIR DEFENSE
AAR	AIR TO AIR REFUELING
AI	AIR INTERDICTION
AR	ARMED RECONNAISSANCE
AS	AIR-TO-SURFACE
CAS	CLOSE AIR SUPPORT
FAM	FAMILIARIZATION
LAT	LOW ALTITUDE TACTICS
NS	NIGHT SYSTEMS
OAAW	OFFENSIVE ANTI-AIR WARFARE
SCAR	STRIKE COORDINATION AND RECONNAISSANCE
SEAD	SUPPRESSION OF ENEMY AIR DEFENSES
EXP	EXPEDITIONARY SHORE-BASED OPERATIONS
AESC	AERIAL ESCORT
AMT	ATTACK ENEMY MARITIME TARGETS
CQ	CARRIER QUALIFICATION
FAC(A)	FORWARD AIR CONTROLLER (AIRBORNE)
FCLP	FIELD CARRIER LANDING PRACTICE
LFE	LARGE FORCE EXERCISE
MIR	MULTI-SENSOR IMAGERY RECONNAISSANCE
NS(LOW)	NIGHT SYSTEMS (LOW ALTITUDE)

104. VMFA MISSION ESSENTIAL TASK LIST (METL)

1. Core METL. The METL is a list of specified tasks a VMFA squadron is designed to perform. Core METs, standardized by type unit, are drawn from the Marine Corps Task List (MCTL) and are used for unit readiness. Core Plus METs are additional METs that are theater specific and/or have a low likelihood of occurrence. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL consists of only the selected Tasks (drawn from Core and Core Plus METs) necessary for that Assigned Mission.

Core METL

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites
MCT 3.2.3.1.1	Conduct Close Air Support
MCT 3.2.3.1.2.2	Conduct Armed Reconnaissance
MCT 3.2.3.1.2.3	Conduct Strike Coordination and Reconnaissance
MCT 3.2.3.2	Conduct Offensive Anti-air Warfare
MCT 3.2.3.2.1	Conduct Suppression of Enemy Air Defenses
MCT 3.2.3.1.2.1	Conduct Air Interdiction
MCT 6.1.1.8	Conduct Active Air Defense

Core Plus METs

MCT 1.3.3.3.1	Conduct Aviation Operations From Expeditionary Sea-Based Sites
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance
MCT 6.1.1.11	Conduct Aerial Escort
MCT 3.2.7.5	Attack Enemy Maritime Targets
MCT 3.2.5.4	Conduct Forward Air Control (Airborne)

2. MET Output Standards. MET output standards are the required level of performance a VMFA squadron must be capable of sustaining during contingency/combat operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training events. A core capable VMFA squadron is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are based on 1.3 hour average sortie duration and assumes \geq 70 percent FMC aircraft and $>$ 90 percent T/O aircrew on hand. If unit FMC aircraft $<$ 70 percent or T/O aircrew $<$ 90 percent, core capability will be degraded by a like percentage. A core capable unit is able to accomplish all tasks designated in the unit METL from a main or expeditionary base.

VMFA MET Output Standards (12 Aircraft)			
MCT	MET	OUTPUT STANDARD	
		MAXIMUM DAILY SORTIES *	MAXIMUM MCT SORTIES
MCT 1.3.3.3.2 EXP	Conduct Aviation Operations From Expeditionary Shore-Based Sites	20	20
MCT 3.2.3.1.1 CAS	Conduct Close Air Support		20
MCT 3.2.3.1.2.2 AR	Conduct Armed Reconnaissance		20
MCT 3.2.3.1.2.3 SCAR	Conduct Strike Coordination and Reconnaissance		20
MCT 3.2.3.2 OAAW	Conduct Offensive Anti-air Warfare		20
MCT 3.2.3.2.1 SEAD	Conduct Suppression of Enemy Air Defenses		16
MCT 3.2.3.1.2.1 AI	Conduct Air Interdiction		20
MCT 6.1.1.8 AAD	Conduct Active Air Defense		20
Core Plus MET Output Standards			
MCT	MET	OUTPUT STANDARD	
		MAXIMUM DAILY SORTIES *	MAXIMUM MCT SORTIES
MCT 1.3.3.3.1 FCLP/CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites	20	20
MCT 2.2.5.2.2 MIR	Conduct Multi-sensor Imagery Reconnaissance		20
MCT 6.1.1.11 AESC	Conduct Aerial Escort		16
MCT 3.2.7.5 AMT	Attack Enemy Maritime Targets		20
MCT 3.2.5.4 FAC(A)	Conduct Forward Air Control (Airborne)		4

* A 12 plane Mission Capable VMFA squadron is able to execute 20 total overall sorties on a daily (24 hour period) basis during contingency/combat

operations. Based on historical flight hour data, average sortie duration is 1.3 hours for the FA-18A/C.

105. VMFA MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILL MATRIX. This matrix provides a pictorial view of the relationship between the unit Mission Essential Task (MET) and each Core Skill/Mission Skill/Core Plus/Mission Plus Skill required to perform the MET. Shading indicates a Core Plus MET and corresponding Core Plus/Mission Plus Skill.

VMFA MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILL MATRIX																				
MARINE CORPS TASK (MCT) // MISSION ESSENTIAL TASK (MET)	CORE SKILLS 2000 PHASE							MISSION SKILLS 3000 PHASE							CORE PLUS 4000 PHASE					
	FAM	AAR	AS	NS	AA	LAT	CAS	EXP	CAS	AR	SCAR	OAAW	SEAD	AI	AAD	SKILL		MISSION		
																LFE	NS (LOW)	FCLP/CQ	MIR	AESC
MCT 1.3.3.3.2 EXP	X			X				X								X				
MCT 3.2.3.1.1 CAS	X		X	X			X	X								X				
MCT 3.2.3.1.2.2 AR	X		X	X					X							X				
MCT 3.2.3.1.2.3 SCAR	X		X	X						X						X				
MCT 3.2.3.2 OAAW	X			X	X						X					X				
MCT 3.2.3.2.1 SEAD	X			X								X				X				
MCT 3.2.3.1.2.1 AI	X		X	X	X	X								X		X				
MCT 6.1.1.8 AAD	X			X	X									X		X				
CORE PLUS																				
MCT 1.3.3.3.1 FCLP/CQ	X			X													X			
MCT 2.2.5.2.2 MIR	X		X	X					X									X		
MCT 6.1.1.11 AESC	X		X	X					X									X		
MCT 3.2.7.5 AMT	X		X	X					X				X						X	
MCT 6.1.1.8 AAD	X			X	X															X
MCT 3.2.5.4 FAC(A)	X		X	X			X	X	X											X

106. VMFA CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS. The CMMR is the optimum number of aircrew to execute each stage of flight as detailed below. The numbers associated with each column reflect the number of proficient aircrew required.

VMFA CMMR	
CORE SKILL	PILOTS
FAM (2100)	12
AAR (2200)	12
AS (2300)	12
NS (2400)	12
AA (2500)	12
LAT (2600)	8
CAS (2700)	12
MISSION SKILL	PILOTS
EXP (3800)	12
CAS (3100)	12
AR (3200)	12
SCAR (3300)	10
OAAW (3400)	10
SEAD (3500)	6
AI (3600)	10
AAD (3700)	10
CORE PLUS	PILOTS
FLCP / CO (4100)	12
MIR (4200)	12
AESC (4300)	8
AMT (4400)	12
AAD (4500)	4
LFE (4600)	8
NS(LOW) (4700)	6
EAC(A) (4800)	2

107. VMFA READINESS REPORTING. The paragraphs and tables below delineate the minimum aircrew qualifications and designations required to contribute to unit readiness. Chapter 7 of the Aviation T&R Program Manual provides additional guidance and a detailed description of readiness reporting using the Defense Readiness Reporting System - Marine Corps (DRRS-MC) and the Current Readiness program.

1. Combat Leadership requirements for readiness reporting are per paragraph 109.1.

2. Crew requirements for specific missions may be balanced by the experience level of the crew and are at the discretion of the commanding officer. For readiness reporting purposes, the table delineates the minimum crew definition qualifications and designations as well as the number of crews required per MET. Designated instructors may be used to offset specific training deficits when forming crews for readiness reporting. The number of crews formed using the below minimum standards per crew capture the readiness capability of a squadron to perform the MET sortie under all light levels and will be compared to the CMMR requirement for crews when reporting readiness.

FA-18A/C MINIMUM CREW QUALIFICATIONS / DESIGNATIONS REQUIRED FOR MET CAPABILITY		
CORE METS	PILOT	PILOTS REQUIRED PER MET (CREW CMMR)
MCT		SQD
1.3.3.3.2 (EXF)	MSP	12
3.2.3.1.1 (CAS)	MSP	12
3.2.3.1.2.2 (AR)	MSP	12
3.2.3.1.2.3 (SCAR)	MSP	10
3.2.3.2 (OAAW)	MSP	10
3.2.3.2.1 (SEAD)	MSP	6
3.2.3.1.2.1 (AT)	MSP	10
6.1.1.8 (AAD)	MSP	10
CORE PLUS METS	PILOT	SQD
1.3.3.3.1 (FCLP/CQ)	MSP	12
2.2.5.2.2 (MIR)	MSP	12
6.1.1.11 (AESC)	MSP	8
3.2.7.5 (AMT)	MSP	12
3.2.5.4 (FAC(A))*	MSP	2

*A FAC(A) capable requires 1 FAC(A) per Flight.

108. VMFA INSTRUCTOR REQUIREMENTS. A squadron should possess the following number of pilots with the listed designations IAW MCO 3500.12 (WTTP). NSI(LOW) in the following matrix refers to squadrons that are NS(LOW) capable (lot XII and above aircraft). The squadron CO/XO instructor designations shall not count toward the following numbers.

VMFA CMMR INSTRUCTORS (5000 PHASE)	
DESIGNATION	PILOTS
LATI	3
NSI (LOW)	2
FAC(A) I	1
FLSE	2
WTI	2
MDTC / TOPGUN	2
LSO	3

109. VMFA QUALIFICATIONS AND DESIGNATIONS

1. CMMR Combat Leadership Requirements. At a minimum, in order to be considered Core Competent, a VMFA squadron must possess the number of designated combat leaders shown in the table below.

VMFA CMMR COMBAT LEADERSHIP (6000 PHASE)	
DESIGNATION	PILOTS
SECTION LEAD (SL)	10
DIVISION LEAD (DL)	6
MISSION COMMANDER (MC)	4

110. MARINE FIGHTER ATTACK SQUADRON (ALL WEATHER) (VMFA(AW)FA-18D) TRAINING AND READINESS REQUIREMENTS. The goal of Marine Aviation is to attain and maintain combat readiness to support Expeditionary Maneuver Warfare while conserving resources. The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned Mission Essential Tasks (METs). 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.

111. VMFA(AW) MISSION. Support the MAGTF Commander by providing supporting arms coordination, conducting multi-sensor imagery reconnaissance, and destroying surface targets and enemy aircraft day or night under all weather conditions during expeditionary, joint, or combined operations.

112. VMFA(AW) TABLE OF ORGANIZATION (T/O). Refer to Table of Organization 8830 managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength for FA-18D units. As of this publication date, FA-18D units are authorized:

FA-18D Squadron
12 aircraft
19 Pilots*
19 WSOs*

*Note: 1 pilot and 1 WSO equal 1 crew. The lower of those two total numbers in a squadron defines how many Crews are currently in an FA-18D squadron. For example, if a unit has 19 pilots and 16 WSOs, that unit has only 16 Crews.

113. VMFA(AW) SKILL ABBREVIATIONS. Shading indicates Core Plus/Mission Plus skills.

VMFA Skill Abbreviation	
AA	AIR-TO-AIR
AAD	ACTIVE AIR DEFENSE
AAR	AIR TO AIR REFUELING
AI	AIR INTERDICTION
AR	ARMED RECONNAISSANCE
AS	AIR-TO-SURFACE
CAS	CLOSE AIR SUPPORT
FAC (A)	FORWARD AIR CONTROLLER (AIRBORNE)
FAM	FAMILIARIZATION
LAT	LOW ALTITUDE TACTICS
NS	NIGHT SYSTEMS
SCAR	STRIKE COORDINATION AND RECONNAISSANCE
SEAD	SUPPRESSION OF ENEMY AIR DEFENSES
TAC (A)	TACTICAL AIR COORDINATION (AIRBORNE)
EXP	SHORE-BASED EXPEDITIONARY OPERATIONS
AESC	AERIAL ESCORT
AMT	ATTACK ENEMY MARITIME TARGETS
CO	CARRIER QUALIFICATION
FCLP	FIELD CARRIER LANDING PRACTICE
LEE	LARGE FORCE EXERCISE
MIR	MULTI-SENSOR IMAGERY RECONNAISSANCE
NS (LOW)	NIGHT SYSTEMS (LOW ALTITUDE)
OAAW	OFFENSIVE ANTI-AIR WARFARE

114. VMFA(AW) MISSION ESSENTIAL TASK LIST (METL)

1. Core METL. The METL is a list of specified tasks a VMFA(AW) squadron is designed to perform. Core METs, standardized by type unit, are drawn from the Marine Corps Task List (MCTL) and are used for unit readiness. Core Plus METs are additional METs that are theater specific and/or have a low likelihood of occurrence. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL consists of only the selected Tasks (drawn from Core and Core Plus METs) necessary for that Assigned Mission.

Core METL

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites
MCT 3.2.3.1.1	Conduct Close Air Support
MCT 3.2.3.1.2.2	Conduct Armed Reconnaissance
MCT 3.2.3.1.2.3	Conduct Strike Coordination and Reconnaissance
MCT 3.2.3.2.1	Conduct Suppression of Enemy Air Defenses
MCT 3.2.3.1.2.1	Conduct Air Interdiction
MCT 6.1.1.8	Conduct Active Air Defense
MCT 3.2.5.4	Conduct Forward Air Control (Airborne)
MCT 5.3.2.7.3	Conduct Tactical Air Coordination (Airborne)

Core Plus METs

MCT 1.3.3.3.1	Conduct Aviation Operations From Expeditionary Sea-Based Sites
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance
MCT 6.1.1.11	Conduct Aerial Escort
MCT 3.2.7.5	Attack Enemy Maritime Targets
MCT 3.2.3.2	Conduct Offensive Anti-air Warfare

2. MET Output Standards. MET output standards are the required level of performance a VMFA(AW) squadron must be capable of sustaining during contingency/combat operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training events. A core capable VMFA(AW) squadron is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are based on 1.3 hour average sortie duration and assumes \geq 70 percent FMC aircraft and \geq 90 percent T/O aircrew on hand. If unit FMC aircraft $<$ 70 percent or T/O aircrew $<$ 90 percent, core capability will be degraded by a like percentage. A core capable unit is able to accomplish all tasks designated in the unit METL from a main or expeditionary base.

VMFA(AW) MET OUTPUT STANDARDS (12 Aircraft)			
MCT	MET	OUTPUT STANDARD	
		MAXIMUM DAILY SORTIES *	MAXIMUM MCT SORTIES
MCT 1.3.3.3.2 EXP	Conduct Aviation Operations From Expeditionary Shore-Based Sites	20	20
MCT 3.2.3.1.1 CAS	Conduct Close Air Support		20
MCT 3.2.3.1.2.2 AR	Conduct Armed Reconnaissance		20
MCT 3.2.3.1.2.3 SCAR	Conduct Strike Coordination and Reconnaissance		20
MCT 3.2.3.2.1 SEAD	Conduct Suppression of Enemy Air Defenses		12
MCT 3.2.3.1.2.1 AI	Conduct Air Interdiction		20
MCT 6.1.1.8 AAD	Conduct Active Air Defense		20
MCT 3.2.5.4 FAC (A)	Conduct Forward Air Control (Airborne)		16
MCT 5.3.2.7.3 TAC (A)	Conduct Tactical Air Coordination (Airborne)		8
Core Plus MET Output Standards (12 aircraft)			
MCT	MET	OUTPUT STANDARD	
		MAXIMUM DAILY SORTIES *	MAXIMUM MCT SORTIES
MCT 1.3.3.3.1 FCLP/CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites	20	20
MCT 2.2.5.2.2 MIR	Conduct Multi-sensor Imagery Reconnaissance		20
MCT 6.1.1.11 AESC	Conduct Aerial Escort		16
MCT 3.2.7.5 AMT	Attack Enemy Maritime Targets		20
MCT 3.2.3.2 OAAW	Conduct Offensive Anti-air Warfare		16

* A 12 plane Mission Capable VMFA(AW) squadron is able to execute 20 total overall sorties on a daily (24 hour period) basis during contingency/combat operations. Based on historical flight hour data, average sortie duration is 1.3 hours for the FA-18D.

115. VMFA(AW) MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILL MATRIX. This matrix provides a pictorial view of the relationship between the unit Mission Essential Task (MET) and each Core Skill/Mission Skill/Core Plus/Mission Plus Skill required to perform the MET. Shading indicates a Core Plus MET and corresponding Core Plus/Mission Plus Skill.

VMFA(AW) FA-18D PILOT AND WSO CORE METL TO CORE SKILL/MISSION SKILL/CORE+/MISSION+ MATRIX																												
MARINE CORPS TASK (MCT)	CORE SKILLS 2000 PHASE								MISSION SKILLS 3000 PHASE								CORE PLUS 4000 PHASE											
	CORE SKILLS 2000 PHASE								MISSION SKILLS 3000 PHASE								SKILL				MISSION PLUS							
	MET	FAM	AAR	AS	NS	AA	LAT	CAS	EXP	CAS	AR	SCAR	OAAW	SEAD	AI	AAD	FAC(A)	TAC(A)	LFE	NS (LOW)	FAC(A)	AAD	FCLP/CQ	MIR	AESC	OAAW	AMT	
MCT 1.3.3.3.2 EXP	X			X				X										X										
MCT 3.2.3.1.1 CAS	X		X	X			X	X										X										
MCT 3.2.3.1.2.2 AR	X		X	X						X								X										
MCT 3.2.3.1.2.3 SCAR	X		X	X							X							X										
MCT 3.2.3.2.1 SEAD	X			X										X				X										
MCT 3.2.3.1.2.1 AI	X		X	X	X	X									X			X										
MCT 6.1.1.8 AAD	X			X	X											X		X			X							
MCT 3.2.5.4 FAC(A)	X		X	X			X	X		X							X	X		X								
MCT 5.3.2.7.3 TAC(A)	X			X													X	X	X									
CORE PLUS																												
MCT 1.3.3.3.1 FCLP/CQ	X			X																		X						
MCT 2.2.5.2.2 MIR	X		X	X						X													X					
MCT 6.1.1.11 AESC	X		X	X						X														X				
MCT 3.2.3.2 OAAW	X			X	X																				X			
MCT 3.2.7.5 AMT	X		X	X						X																	X	

116. VMFA(AW) CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS. The CMMR is the optimum number of aircrew to execute each stage of flight as detailed below. The numbers associated with each crew position column reflect the number of proficient aircrew required.

VMFA(AW) CMMR		
CORE SKILL	PILOT	WSO
FAM (2100)	12	12
AAR (2200)	12	12
AS (2300)	12	12
NS (2400)	12	12
AA (2500)	12	12
LAT (2600)	8	8
CAS (2700)	12	12
MISSION SKILL	PILOT	WSO
EXP (3800)	12	12
CAS (3100)	12	12
AR (3200)	12	12
SCAR (3300)	10	10
SEAD (3500)	6	6
AI (3600)	10	10
AAD (3700)	10	10
FAC(A) (3800)	8	8
TAC(A) (3900)*	4*	4*
CORE PLUS	PILOTS	WSO
FCLP / CO (4100)	12	12
MIR (4200)	8	8
AESC (4300)	8	8
AMT (4400)	8	8
AAD (4500)	4	4
LEE (4600)	8	8
NS (LOW) (4700)	6	6
FAC(A) (4800)	4	4
OBAW (4900)	8	8

* TAC(A) training requirement applies to the VMFA(AW) squadron and may be filled by Pilot or WSO. Requirement equals 4 MSP TAC(A) in total.

117. VMFA(AW) READINESS REPORTING. The paragraphs and tables below delineate the minimum aircrew qualifications and designations required to contribute to unit readiness. Chapter 7 of the Aviation T&R Program Manual provides additional guidance and a detailed description of readiness reporting using the Defense Readiness Reporting System - Marine Corps (DRRS-MC) and the Current Readiness program.

1. Combat Leadership requirements for readiness reporting are per paragraph 119.1.

2. Crew requirements for specific missions may be balanced by the experience level of the crew and are at the discretion of the commanding officer. For readiness reporting purposes, the table delineates the minimum crew definition qualifications and designations as well as the number of crews required per MET. Designated instructors may be used to offset specific training deficits when forming crews for readiness reporting. The number of crews formed using the below minimum standards per crew capture the readiness capability of a squadron to perform the MET sortie under all light levels and will be compared to the CMMR requirement for crews when reporting readiness.

VMFA(AW) FA-18-D MINIMUM CREW QUALIFICATIONS / DESIGNATIONS REQUIRED FOR MET CAPABILITY			
MCT	PILOT	WSO	CREWS REQUIRED PER MET (CREW CMMR) ***
			SQD
1.3.3.3.2 (EXP)	MSP	MSP	12
3.2.3.1.1 (CAS)	MSP	MSP	12
3.2.3.1.2.2 (AR)	MSP	MSP	12
3.2.3.1.2.3 (SCAR)	MSP	MSP	10
3.2.3.2.1 (SEAD)	MSP	MSP	6
3.2.3.1.2.1 (AI)	MSP	MSP	10
6.1.1.8 (AAD)	MSP	MSP	10
3.2.5.4 (FAC(A))*	MSP	MSP	8
5.3.2.7.3 (TAC(A)**)	MSP	MSP	4
CORE PLUS METS	CREW POSITION		SQD
1.3.3.3.1 (CO)	MSP, CO	N/A	12
2.2.5.2.2 (MIR)	MSP	MSP	8
6.1.1.11 (AESC)	MSP	MSP	8
3.2.7.5 (AMT)	MSP	MSP	4
3.2.3.2 (OAAW)	MSP	MSP	8

* A FAC(A) capable requires 2 FAC(A) per crew.

** Only one proficient crewmember (pilot or WSO) is required to constitute a TAC(A) crew.

*** A proficient crew consists of one proficient pilot and one proficient WSO except for FCLP/CQ.

118. VMFA(AW) INSTRUCTOR REQUIREMENTS. A squadron should possess the following number of pilots with the listed designations IAW MCO 3500.12 (WTPP). NSI(LOW) in the following matrix refers to squadrons that are NS(LOW) capable (lot XII and above aircraft). The squadron CO/XO instructor designations shall not count toward the following numbers.

VMFA(AW) CMMR INSTRUCTORS		
DESIGNATION	PILOTS	WSOS
LATI	3	N/A
NSI(LOW)	2	N/A
FAC(A) I	4	
FLSE	2	1
TAC(A) I	4	
WTI	2	2
MDTC / TOPGUN	1	1
LSO	2	N/A

119. VMFA (AW) QUALIFICATIONS AND DESIGNATIONS

1. CMMR COMBAT LEADERSHIP REQUIREMENTS. At a minimum, in order to be considered Core Competent, a VMFA(AW) squadron must possess the number of designated combat leaders shown in the table below.

VMFA(AW) CMMR COMBAT LEADERSHIP		
DESIGNATION	PILOTS	WSOS
SECTION LEAD (SL)	10	N/A
DIVISION LEAD (DL)	6	N/A
MISSION COMMANDER (MC)	4 Crews (See Note)	

Note: Only one proficient crewmember (pilot or WSO) is required to constitute a MC crew.

120. VMFA / VMFA(AW) ORDNANCE REQUIREMENTS. Detailed Ordnance requirements are delineated in the F-18 Ordnance Core Competency Resource Model (CCRM), developed and maintained by TECOM Aviation Training Division (ATD). Training Officers are encouraged to contact ATB for more information about Ordnance CCRM.

121. VMFA / VMFA(AW) TRAINING RESOURCE REQUIREMENTS

1. External support resources required for training varies with each phase, stage, and T&R event. These resources include but are not limited to ranges, threat emitters, targets, air refueling platforms, adversary aircraft, and ships.
2. Range Requirements. The range requirements in these tables are based on event requirements listed in the individual event descriptions. Units should make every effort to adhere to the requirements listed in the event descriptions, but commanding officers may waive requirements based on existing range capabilities and limitations.

Category I (Airspace)	Abbreviation	Name	Description	Notes
CAT I	MOA	Special Use Airspace or MOA	Per Flight Information Publications	
CAT I	RSTD	Restricted / Warning Area	Per Flight Information Publications	
CAT I	MTR	Military Training Route	Per Flight Information Publications	
CAT I	LAT	LAT Course	Approved LAT course. Normally preferred over an MTR for dedicated LAT sorties.	
CAT I	AA	Air-to-Air Range	Any airspace that can support BFM or ACM. May include Restricted Airspace, MOAs or Warning Areas for example	For intercepts / BVR a minimum airspace of 40nm is usually required.
Category I (Airspace)	Abbreviation	Name	Description	Notes
CAT I	AA GUNS	Air-to-Air Gunnery Range	Any airspace that can support Air-to-Air Gunnery on a towed Banner. Implies Restricted Airspace or Warning Areas for example.	
CAT I	MACH I+	Supersonic	Any airspace that can support Supersonic Flight.	
CAT I	AAR	Air to Air Refueling	Any airspace that can support AAR.	
Category II (Capabilities)	Abbreviation	Name	Description	Notes
CAT II	TACTS	Tactical Air Combat Training System (TACTS)	TACTS range capable. A sophisticated airspace tracking and display instrumentation systems used primarily in ACM and threat WEZ recognition. All maneuvers are displayed real-time for a squadron Range Training Officer (RTO). All data is recorded to allow the aircrew to conduct post-mission analysis or "debriefs".	TACTS usually includes ACM, NDWS, EW, NDWS, ARM, capabilities. Implies RSTD Airspace.
CAT II	EW	Electronic Warfare	Threat Emitters providing a dynamic red/or gray force threat environment to enhance threat recognition, self-protection and defense suppression techniques.	
CAT II	Hi Fi EW	High Fidelity EW	Hi Fidelity (live) Emitters. Live actual SAM systems with operators. Can provide feedback via tape debrief.	Often a desired substitute for EW, may be cost prohibitive
Category II (Capabilities)	Abbreviation	Name	Description	Notes
CAT II	ACM	Air Combat Maneuvering	Supports training in A-A maneuvers and weapons employment under realistic conditions for manned high performance FW & RW aircraft. This includes weapon simulation (AIM-9, AIM-7, AIM-120) from launch to impact with kill & miss indications as well as Pk and reason for miss provided.	
CAT II	ARM	Anti Radiation Missile	Supports training to ARM delivery with simulated missile fly-out and kill indications	
CAT II	CEDS	Countermeasures Employments Detection System	Supports training to countermeasures by linking to the ALE via TACTS systems for EW training. Normally included in a TACTS EW range.	
CAT II	ATIS	Avenger TACTS Interface	Allows the LAAD Avenger team to plug into TACTS and evaluate control/scoring	

CAT II	LSTSS	Large Scale Target Sensor System	A remote control scoring system capable of tracking Laser designator spots						
CAT II	IWTS	Imaging Weapons Training System	Virtual simulation to provide pilot uplink imagery of weapon seeker image through TOF to actual target						Supports SLAM-ER
CAT II	URBN WPNS	Urban Weapons Impact Range	Urban CAS range capable of JCAS, LT INERT and LSR.						
CAT II	URBN TRG	Urban Training	Urban area with overlying Restricted or MOA training airspace. Does not imply authorized weapons release or Laser use.						Example is a town such as Yuma under the Dome MOA.
Category II (Capabilities)	Abbreviation	Name	Description						Notes
CAT II	RKD RNG	Raked Range	Concentric circle range, with WISS. LSR and RLSR a desired capability but must be specified. Night lighting capability implied.						
CAT II	LSR	Laser Safe Range	Supports Airborne Laser Firing.						Should be standard on a RKD RNG
CAT II	RLSR	Remote Laser Capable	A remote operated ground Laser may designate a target						Should be standard on a RKD RNG
CAT II	WISS	Weapons Impact Scoring Set	Scores bombing to designated targets. Scores can be relayed via voice of fax.						Should be standard on a RKD RNG
CAT II	NDBS	No Drop Bomb Scoring	Scores simulated bombing to designated targets. Scores can be relayed via tape debrief.						Should be standard on TACTS
CAT II	STRAFE	Strafe Pit / Target	A scored Strafing Pit or Target.						Often located near a RKD RNG
CAT II	TGT	Target	Any point- target that is authorized to release INERT weapons on.						May include an un-scored Raked Range
CAT II	IR TGT	IR Significant Target	IR Significant Target						
CAT II	RDR TGT	Radar Significant Target	Radar Significant Target						
CAT II	LINK	LINK 16	LINK 16 available.						
Category III (Ordnance Restrictions)	Abbreviation	Name	Description						Notes
CAT III	HE	HE Impact Area	Supports live HE ordnance. Implies EXP.						
CAT III	JCAS	JCAS TTPs	Supports all three types of CAS in the range. Allows JTAC personnel on range. Implies LSR and either INERT or HE.						
CAT III	LT INERT	Light Inert	Light Inert Impact Area.						MK-76 / LGTR / BDU-48 / Gun / Rockets
CAT III	HVY INERT	Heavy Inert	Heavy Inert Impact Area.						500lb and above
CAT III	JDAM	JDAM Impact Area / Target	Supports JDAM release.						
Category III (Ordnance Restrictions)	Abbreviation	Name	Description						Notes
CAT III	JSOW	JSOW Impact Area / Target	Supports JSOW release.						
CAT III	LGB	LGB Impact Area / Target	Supports LGB (HE or HVY INERT) release and Laser firing						
CAT III	AA MISSILE	AA Missile Firing Range	Supports AA Missile Firing						AIM-9 / AIM-7 / AIM-120

CAT III	AS MISSILE	A/S Missile Firing Range	Supports AS Missile Firing	LMAV / LGB / Hellfire / TOW
CAT III	ARM MISSILE	ARM Missile Firing Range	Supports ARM Missile Firing. Requires an EW emitter.	AGM-88
CAT III	EXP	Expendables Authorized	Supports use of Chaff & Flares	
CAT III	ICM	Improved Conventional Munitions	Supports ICM or Cluster munitions	
Category IV (Threat Replication)	Abbreviation	Name	Description	Notes
CAT IV	IMC	Instrumented Multi-Spectral Cues	Full size replicas of actual AAA and SAM systems, IR significant and normally linked to LSTSS and NDBS / WISS	
CAT IV	MOCK	Mock-up Targets	Full size replicas of Mechanized or Threat vehicles. IR significant desired. Weapons release not implied.	
CAT IV	GWYS	Ground Warfare Visual Simulator	Provide enhanced battlefield realism via simulation of muzzle flashes for AAA and launch of SAMs	
CAT IV	SST	Smokey SAM Team	Smoke Rockets to simulate MANPADs or RF SAMs	
CAT IV	COMPLEX	Complex Target Array	Dispersed target array requiring sorting of targets and may include infrastructures such as runways, facilities, POL sites, etc. Implies INERT and LSR. WISS desired. WISS desired.	
Category IV (Threat Replication)	Abbreviation	Name	Description	Notes
CAT IV	TGT-FORM	Tactical Targets in Formation	Full size actual or replicas of Mechanized or Threat vehicles. IR significant desired. Implies INERT and LSR. WISS desired.	
CAT IV	TGT-DISP	Tactical Targets Dispersed	Full size actual or replicas of Mechanized or Threat vehicles. IR significant desired. Implies INERT and LSR. WISS desired.	
CAT IV	TGT-MOVE	Tactical Targets Moving	Full size actual or replicas of Mechanized or Threat vehicles. IR significant desired. Implies LT INERT and LSR. WISS & LSTSS desired.	
CAT IV	RECCE ARRAY	Actual Tactical Targets in an Array for PID	Full size actual Mechanized or Threat vehicles. Organized in an array in order to allow PID. Weapons release not implied.	
CAT IV	STRUCTUR	Structures	May include a building, bunker or revetment. IR significant desired. Inert weapons release authorized. LSR capable. WISS desired.	

CHAPTER 2

FA-18 PILOT/WSO

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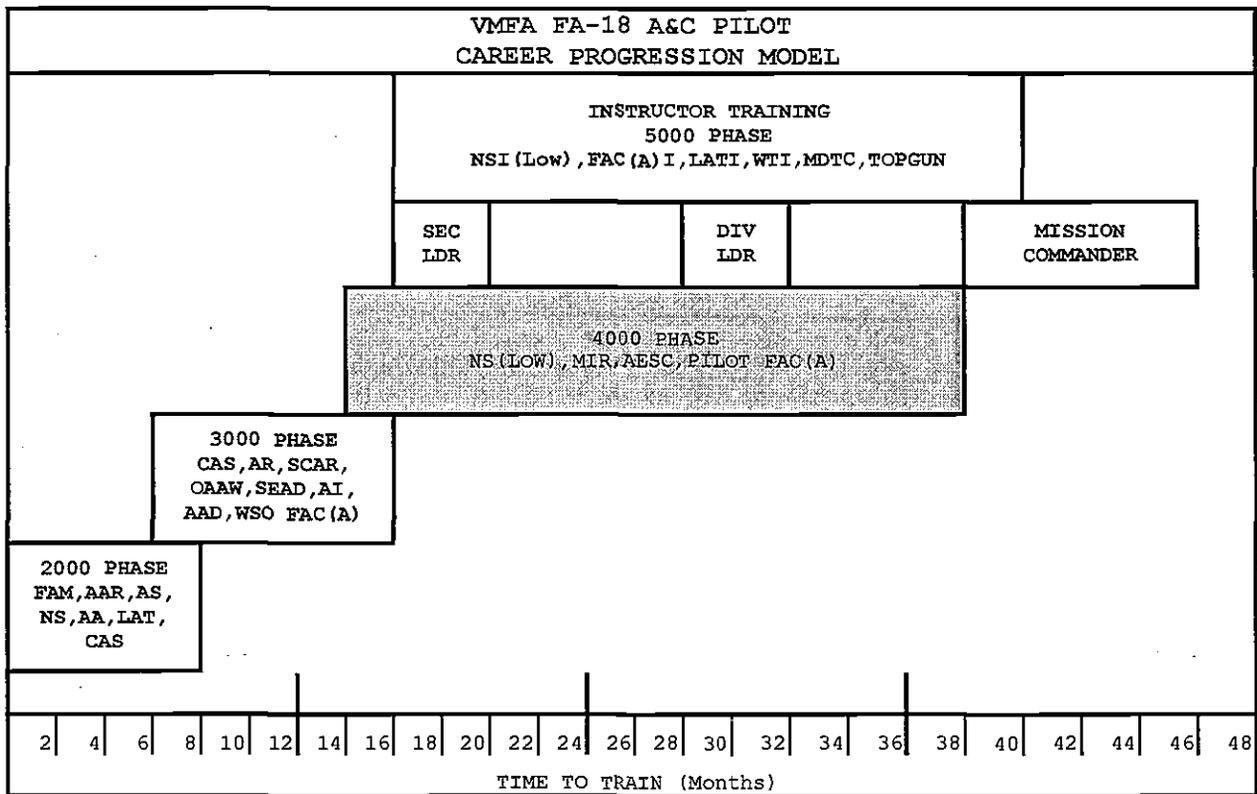
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FA-18 PILOT/WSO

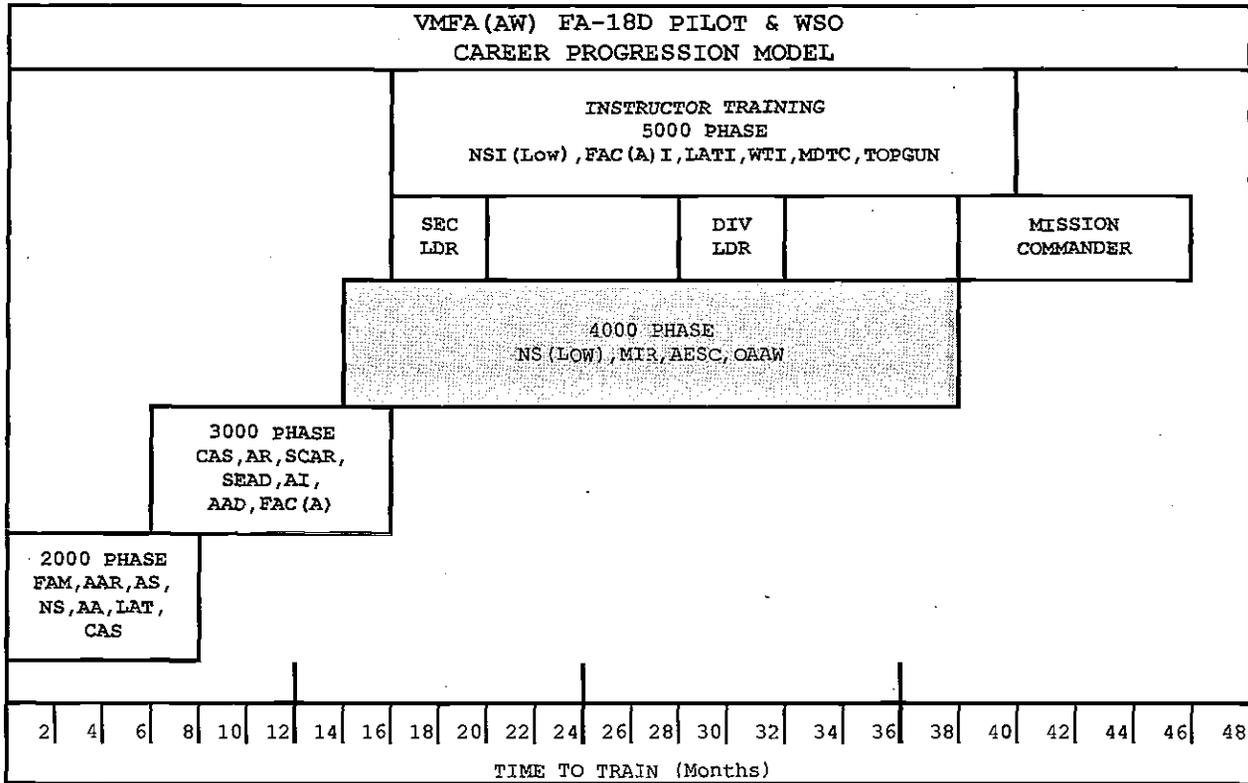
200. FA-18 PILOT/WSO INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities. Unless otherwise specified, all information in this chapter applies to FA-18A-D pilots and WSOs.

201. FA-18 PILOT/WSO TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average aircrew. Units should use the model as a point of departure to generate individual training plans.

1. FA-18A/C Pilot Career Progression Model



2. FA-18D Pilot & WSO Career Progression Model



202. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. A CSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual CSP. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated in the below paragraphs.

NOTE

Any pilot/WSO who has not attained Core Skill Proficiency in the NS or AA stages shall fly all NS and AA sorties with a qualified flight lead (Section Leader or higher qualified under this T&R manual or NSI/ACTI qualified in another T/M/S).

1. Events Required to Attain Individual CSP. To initially attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) ATTAIN TABLE						
T&R events required to attain CSP (2000 Phase)						
FAM	AAR	AS	NS	AA	LAT	CAS
S2101R	2201R	S2301	S2401	S2501	S2601R	S2701R
2102R	2202R	S2302	2402R	2502R	2602R	2702R
2103R		S2303	2403	2503R	2603	2703R
		S2304R	2404R	2504R		
		S2305	2405	2505R		
		2306R		2506R		
		2307R		S2507		
		2308R		S2508		
		2309R		2509R		
		2310		2510R		
		2311				
		2312				
		2313R				

Gray highlight with R suffix on the event code = Refresher POI
 An S prefix on the event code = Event conducted in a simulator

2. Events Required to Maintain Individual CSP. To maintain CSP in a Core Skill, an individual must maintain proficiency in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) MAINTAIN TABLE						
T&R events required to maintain CSP (2000 Phase)						
FAM	AAR	AS	NS	AA	LAT	CAS
S2101R	2202R	2307R	2402R	2502R	2602R	2703R
		2308R		2503R		
		2313R		2504R		
				2505R		
				2506R		

Gray highlight with R suffix on the event code = Refresher POI
 An S prefix on the event code = Event conducted in a simulator

203. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. A MSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual MSP. In order to be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated in the paragraphs below.

1. Events Required to Attain Individual MSP. To initially attain MSP in a Mission Skill, an individual must simultaneously have a proficient status in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE							
FA-18A/C Pilot							
T&R events required to attain MSP (3000 Phase)							
CAS	AR	SCAR	OAAW	SEAD	AI	AAD	EXP
S3101	S3201R	3301R	S3401R	S3501R	S3601R	S3701R	3800R
3102R	3202R	3302R	3402R	S3502R	3602R	3702R	
3103R	3203R		3403R	3503R	3603R	3703R	
3104R			3404R		3604R	3704R	
					3605R		

Gray highlight with R suffix on the event code = Refresher POI
 An S prefix on the event code = Event conducted in a simulator

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE								
FA-18D Pilot/WSO								
T&R events required to attain MSP (3000 Phase)								
CAS	AR	SCAR	SEAD	AI	AAD	EXP	FAC (A)	TAC (A)
S3101	S3201R	3301R	S3501R	S3601R	S3701R	3800R	S3801	3901R
3102R	3202R	3302R	S3502R	3602R	3702R		S3802	3902
3103R	3203R		3503R	3603R	3704R		3803R	
3104R				3604R			3804	
				3605R			3805	
							3806	
							3807	
							3808R	
							3809R	
							3810R	
							3811R	
							3812	

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

2. Events Required to Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE							
FA-18A/C Pilot							
T&R events required to maintain MSP (3000 Phase)							
CAS	AR	SCAR	OAAW	SEAD	AI	AAD	EXP
3102R	S3201R	3301R	S3401R	S3501R	S3601R	S3701R	3800R
3103R	3202R	3302R	3402R	S3502R	3602R	3702R	
3104R	3203R		3403R	3503R	3603R	3703R	
			3404R		3604R	3704R	
					3605R		

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE								
FA-18D Pilot/WSO								
T&R events required to maintain MSP (3000 Phase)								
CAS	AR	SCAR	SEAD	AI	AAD	EXP	FAC (A)	TAC (A)
3102R	S3201R	3301R	S3501R	S3601R	S3701R	3800R	3803R	3901R
3103R	3202R	3302R	S3502R	3602R	3702R		3808R	
3104R	3203R		3503R	3603R	3704R		3810R	
				3604R			3811R	
				3605R				

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

3. Events Required to Attain Individual Proficiency in Core Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus Skills is at the discretion of the unit commanding officer. To initially attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events listed for that Core Plus Skill:

INDIVIDUAL CORE PLUS PROFICIENCY ATTAIN TABLE								
FA-18A/C Pilot								
T&R events required to attain Core Plus (4000 Phase)								
FCLP/CQ	MIR	AESC	AMT	AAD	LFE	NS LOW	FAC (A)	
S4101R	S4201	4301R	S4401	4501R	4601R	4701	S4801	4809R
4102R	4202R	4302R	S4402R		4602R	4702	S4802	4810R
4103R			4403R			4703R	4803R	4811R
4104R			4404R				4804	4812
4105R							4805	4813
							4806	4814
							4807	4815
							4808R	4816

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

INDIVIDUAL CORE PLUS PROFICIENCY ATTAIN TABLE								
FA-18D Pilot/WSO								
T&R events required to attain Core Plus (4000 Phase)								
MISSION PLUS					CORE PLUS SKILL			
FCLP/CQ	MIR	AESC	AMT	OAAW	AAD	LFE	NS LOW	FAC (A)
S4101R	S4201	4301R	S4401	S4901R	4501R	4601R	4701	4813R
4102R	4202R	4302R	S4402R	4902R	4502R	4602R	4702	4814
4103R	4203		4403R	4903R			4703R	4815
4104R	4204R		4404R					4816
4105R	4205							

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

4. Events Required to Maintain Individual Proficiency in Core Plus Skills.
To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

INDIVIDUAL CORE PLUS PROFICIENCY MAINTAIN TABLE								
FA-18A/C Pilot								
T&R events required to Maintain Core Plus (4000 Phase)								
FCLP/CQ	MIR	AESC	AMT	AAD	LFE	NS LOW	FAC (A)	
4103R	4202R	4301R	S4402R	4501R	4602R	4703R	4803R	
4105R		4302R	4403R				4808R	
			4404R				4810R	
							4811R	

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

INDIVIDUAL CORE PLUS PROFICIENCY MAINTAIN TABLE								
FA-18D Pilot/WSO								
T&R events required to maintain Core Plus (4000 Phase)								
MISSION PLUS					CORE PLUS SKILL			
FCLP/CQ	MIR	AESC	AMT	OAAW	AAD	LFE	NS LOW	FAC (A)
4103R	4202R	4301R	S4402R	S4901R	4501R	4602R	4703R	4813R
4105R	4204R	4302R	4403R	4902R	4502R			
			4404R	4903R				

Gray highlight with R suffix on the event code = Refresher POI
An S prefix on the event code = Event conducted in a simulator

204. QUALIFICATIONS AND DESIGNATIONS

1. Qualification. Qualification is a status assigned to aircrew based on demonstration of proficiency in a specific skill. Specific criteria to achieve a qualification is delineated in this T&R manual. Upon successful completion of qualification criteria, commanding officers may issue an appropriate qualification letter for inclusion in the NATOPS jacket and APR. Pilots do not lose a qualification as a function of refly factor for individual events. Loss of proficiency (delinquent refly factor) for all associated qualification events (events with measurable refly factor; '**' refly factor events excluded) constitutes loss of that qualification. Re-qualification requires demonstration of proficiency. Re-qualification shall be achieved by successfully re-completing all R-coded events associated with the respective qualification listed in the FA-18A/C/D training tables (unless waived per paragraph 207 of the Aviation T&R Program Manual).

2. Designation. Designation is a status assigned to an individual based on leadership ability. A designation is a command specific, one-time occurrence and remains in effect until removed for cause. Specific designation requirements are delineated in the following tables. Commanders shall issue a designation letter to the individual upon the occasion of original designation, with appropriate copies for inclusion in the NATOPS jacket and APR.

3. Qualifications And Designations Tables. The tables below delineate the T&R events required to be completed to attain initial qualifications, to re-qualify, and to attain designations. All stage lectures, briefs, squadron training, and prerequisites shall be complete prior to completing final events. Qualification and designation letters signed by the commanding officer shall be placed in the NATOPS and APR jackets.

a. FA-18A/C Qualifications and Designations

QUALIFICATION AND DESIGNATION REQUIREMENTS VMEA FA-18A+C	
QUALIFICATION	REQUIREMENTS
NATOPS (6101)	IAW OPNAV 3710
INSTRUMENT (6102)	IAW OPNAV 3710
DAY CQ QUAL (6201)	S4101, 4102, 4104
NIGHT CQ QUAL (6202)	S4101, 4103, 4105
LAT QUAL (6203)	S2601, 2602, 2603
NS(LOW) QUAL (6204)	4701, 4702, 4703
LSO QUAL (6205)	IAW LSO SCHOOL CURRICULUM
PMCF QUAL (6206)	S6111, 6206
FAC(A) QUAL (6207)	S4801, S4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811
DESIGNATION	REQUIREMENTS
SECTION LEAD (6326)	6301, S6302, 6303, 6304, S6305, 6306, S6307, 6308, S6309, 6310, 6311, S6312, S6313, 6314, 6315, 6316, 6317, 6318, S6319, 6320, 6321, S6322, S6323, 6324, S6325, 6326
DIVISION LEAD (6408)	6401, 6402, S6403, 6404, 6405, S6406, 6407, 6408
MISSION COMMANDER (6503)	6501, 6502, 6503
LATI (5104)	S5101, 5102, 5103, 5104

NSI (LOW) (5202)	S5201, 5202
FAC(A) I (5304)	5301, 5302, 5303
FLSE (5406)	5401, 5402, S5403, S5404, 5405, 5406
WTI (6601)	IAW MAWTS-1 COURSE CATALOG
MDTC (6602)	IAW MAWTS-1 COURSE CATALOG
TOPGUN (6603)	IAW NSAWC N7 COURSE CATALOG

b. FA-18D Qualifications and Designations

QUALIFICATION AND DESIGNATION REQUIREMENTS VMFA(AW) FA-18D	
QUALIFICATION	REQUIREMENTS
NATOPS (6101)	IAW OPNAV 3710
INSTRUMENT (6102)	IAW OPNAV 3710
DAY CQ QUAL (6201)	S4101, 4102, 4104
NIGHT CQ QUAL (6202)	S4101, 4103, 4105
LAT QUAL (6203)	S2601, 2602, 2603
NS(LOW) QUAL (6204)	4701, 4702, 4703
LSO QUAL (6205)	IAW LSO SCHOOL CURRICULUM
PMCF QUAL (6206)	S6111, 6206
FAC(A) QUAL (6207)	S3801, S3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811
TAC(A) QUAL (6208)	3901, 3902
DESIGNATION	REQUIREMENTS
SECTION LEAD (6326)	6301, S6302, 6303, 6304, S6305, 6306, S6307, 6308, S6309, 6310, 6311, S6312, S6313, 6314, 6315, 6316, 6317, 6318, S6319, 6320, 6321, S6322, S6323, 6324, S6325, 6326
DIVISION LEAD (6408)	6401, 6402, S6403, 6404, 6405, S6406, 6407, 6408
MISSION COMMANDER (6503)	6501, 6502, 6503
LATI (5104)	S5101, 5102, 5103, 5104
NSI(LOW) (5202)	S5201, 5202
FAC(A) I (5304)	5301, 5302, 5303
FLSE (5406)	5401, 5402, S5403, S5404, 5405, 5406
TAC(A) I (5501)	5501
WTI (6601)	IAW MAWTS-1 COURSE CATALOG
MDTC (6602)	IAW MAWTS-1 COURSE CATALOG
TOPGUN (6603)	IAW NSAWC N7 COURSE CATALOG

205. FA-18 PILOT/WSO PROGRAMS OF INSTRUCTION

1. Basic POI (CAT I/II)

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
1-33	1000 Phase Training (CAT I/II)	FRS
34-58	2000 Phase Training	Tactical Squadron
59-82	3000 Phase Training	Tactical Squadron
83-88	4000 Phase Training	Tactical Squadron

2. Refresher POI (CAT III). (731 days or greater since last FA-18 flight.)

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
1-22	1000 Phase Training (CAT III)	FRS
23-46	2000 Phase Training	Tactical Squadron
47-70	3000 Phase Training	Tactical Squadron
71-76	4000 Phase Training	Tactical Squadron

206. GROUND/ACADEMIC TRAINING. Academic instruction falls into three categories in the training progression. The FA-18 Course Catalog outlines the first two: recommended self-paced reading and local unit chalk talks, both sponsored by the unit training officer or designated instructor. The table below outlines the third requirement: lectures and briefs, all of which are provided by MAWTS-1 or TOPGUN to facilitate Training and Readiness 2000-4000 phase events. All 2000 phase lectures should be accomplished during the 2000 phase; 3000 phase lectures during the 3000 phase and so forth. Note the required Aviation Career Progression Model (ACPM) courses as 8000 phase events, yet they are also required in the prescribed sequence of training listed below and reflected in MSHARP. The academic lecture requirements matrix is below:

<u>FA-18 ACADEMIC LECTURE REQUIREMENTS MATRIX</u>				
<u>STAGE</u>	<u>EVENT</u>	<u>DESCRIPTION</u>	<u>SOURCE</u>	<u>PROF. INTERVAL</u>
<u>CORE SKILLS (2000 PHASE EVENTS)</u>				
FAM	2001	JMPS MISSION PLANNING	MAWTS-1	*
FAM	2002	PERFORMANCE ENHANCEMENT	TOPGUN	*
AS	2003	SURFACE-TO-AIR COUNTERTACTICS	MAWTS-1	365
AS	2004	EW SUITE	MAWTS-1	365
AS	2005	NON-RADAR SAMS AND AAA	MAWTS-1	365
AS	2006	RF SAMS	MAWTS-1	365
AS	2007	SAM MISCONCEPTIONS BY KURT WALDRON	MAWTS-1	*
AS	2008	BOMBS, FINS AND FUZES	MAWTS-1	365
AS	2009	WASP PART I	MAWTS-1	730
AS	2010	WASP PART II	MAWTS-1	730
AS	2011	AIR-TO-GROUND GUNNERY	MAWTS-1	365
AS	2012	TARGETING PODS (LITENING / ATFLIR)	MAWTS-1	365
AS	2013	LASER GUIDED BOMBS (PAVEWAY II / DMLGB)	MAWTS-1	365
AS	2014	MAVERICK EMPLOYMENT	MAWTS-1	730
AS	2015	CLUSTER MUNITIONS	MAWTS-1	730
AS	2016	GPS WEAPONS: GPS THEORY	MAWTS-1	730
AS	2017	GPS WEAPONS: JDAM / LJDM	MAWTS-1	365
NS	2018	NIGHT SYSTEMS TACTICAL CONSIDERATIONS	MAWTS-1	730
AA	2019	COMBAT GUNNERY	TOPGUN	730
AA	2020	AIM-9	TOPGUN	730
AA	2021	AIM-120	TOPGUN	730
AA	2022	1V1 AIR COMBAT	TOPGUN	730
AA	2023	SECTION ENGAGED MANEUVERING	MAWTS-1	730

AA	2024	FA-18 AIR-TO-AIR EMPLOYMENT	TOPGUN	365
AA	2025	RADAR THEORY	TOPGUN	730
AA	2026	APG-65/73	TOPGUN	730
AA	2027	COMBAT SYSTEMS (MIDS)	MAWTS-1	365
AA	2028	THREAT AIRCRAFT	TOPGUN	730
AA	2029	THREAT AIR-TO-AIR MISSILES	TOPGUN	365
LAT	2030	LAT PART I: PHILOSOPHY AND CONCEPTS	MAWTS-1	730
CORE SKILLS (2000 PHASE EVENTS)				
LAT	2031	LAT PART II: RISK ASSESSMENT	MAWTS-1	730
LAT	2032	LAT PART III: BASIC AND SECTION MANEUVERING	MAWTS-1	730
LAT	2033	LAT PART IV: ADVANCED MANEUVERING	MAWTS-1	730
CAS	2034	FIRE SUPPORT COORDINATION MEASURES	MAWTS-1	730
CAS	2035	JOINT CLOSE AIR SUPPORT DOCTRINE	MAWTS-1	365
CAS	2036	CLOSE AIR SUPPORT	MAWTS-1	365
MISSION SKILLS (3000 PHASE EVENTS)				
CAS	3001	URBAN CAS	MAWTS-1	365
CAS	3002	DCS / VMF	MAWTS-1	365
AR/SCAR	3003	AR / SCAR	MAWTS-1	365
AR/SCAR	3004	JMEMS	MAWTS-1	365
AR/SCAR	3005	GPS WEAPONS: TARGET COORDINATES	MAWTS-1	365
OAAW	3006	FIGHTER-ATTACK MISSIONS	MAWTS-1	365
OAAW	3007	DEFENSIVE COUNTER MEASURES	TOPGUN	730
OAAW	3008	COMMAND AND CONTROL	TOPGUN	730
OAAW	3009	THREAT PILOT AND TACTICS	TOPGUN	365
SEAD	3010	HARM HARDWARE AND SOFTWARE	MAWTS-1	365
SEAD	3011	HARM MODES OF OPERATIONS	MAWTS-1	365
SEAD	3012	HARM TAILORING	MAWTS-1	730
SEAD	3013	SEAD PLANNING	MAWTS-1	365
SEAD	3014	THREAT IADS	TOPGUN	365
SEAD	3015	GPS WEAPONS: JSOW	MAWTS-1	730
SEAD	3016	TALD	MAWTS-1	730
AI	3017	AIR-TO-GROUND EMPLOYMENT	MAWTS-1	365
AI	3018	STRIKE MISSION PLANNING	MAWTS-1	365
AI	3019	LASER GUIDED BOMBS (PAVE III LGB)	MAWTS-1	730
AI	3020	GPS WEAPONS: SLAM-ER	TOPGUN	730
AAD	3021	AIR-TO-AIR MISSION PLANNING	TOPGUN	365
FAC(A)	3022	JCAS - JFAC(A) OVERVIEW	JFAC(A)	365
FAC(A)	3023	JOINT COMMAND AND CONTROL STRUCTURE	JFAC(A)	730
FAC(A)	3024	FIRE SUPPORT COORDINATION MEASURES	JFAC(A)	730
FAC(A)	3025	JTAC EQUIPMENT	JFAC(A)	365
FAC(A)	3026	INTRO TO AVIATION ORDNANCE	JFAC(A)	730
FAC(A)	3027	A/C / SENSOR CAPABILITIES	JFAC(A)	730
FAC(A)	3028	INTRO TO INDIRECT FIRE ASSETS	JFAC(A)	730
FAC(A)	3029	CALL FOR FIRE	JFAC(A)	730
FAC(A)	3030	FAC(A) PLANNING AND PREP	JFAC(A)	365
FAC(A)	3031	JOINT TACTICAL AIRSTRIKE REQUEST	JFAC(A)	*
FAC(A)	3032	CONTROLLING CAS AS A FAC(A)	JFAC(A)	365
FAC(A)	3033	INTRO TO FIXED WING CAS TACTICS	JFAC(A)	730
FAC(A)	3034	ATTACK HELO EMPLOYMENT	JFAC(A)	365

FAC(A)	3035	FAC(A) NIGHT CONSIDERATIONS	JFAC(A)	365
FAC(A)	3036	URBAN FAC(A) CONSIDERATIONS	JFAC(A)	730
FAC(A)	3037	SEAD / EW INTEGRATION	JFAC(A)	365
FAC(A)	3038	FRATRICIDE LESSONS LEARNED	JFAC(A)	*
FAC(A)	3039	TLE COMMUNICATION AND STANDARIZATION	JFAC(A)	730
FAC(A)	3040	MACCS PART I	MAWTS-1	730
FAC(A)	3041	MACCS PART II	MAWTS-1	730
FAC(A)	3042	TARGETING AND FIRE SUPPORT PLANNING	MAWTS-1	730
MISSION SKILLS (3000 PHASE EVENTS)				
FAC(A)	3043	GENERAL EMPLOYMENT OF FAC(A), TAC(A), SCAR	MAWTS-1	730
FAC(A)	3044	FA-18 FAC(A) EMPLOYMENT	MAWTS-1	365
FAC(A)	3045	FA-18 FAC(A) & TAC(A) TCC AND CRM	MAWTS-1	365
TAC(A)	3046	FA-18D TAC(A) EMPLOYMENT	MAWTS-1	365
CORE PLUS SKILLS (4000 PHASE EVENTS)				
MIR	4001	TAC RECCE EMPLOYMENT	MAWTS-1	365
AESC	4002	CONVOY ESCORT	MAWTS-1	730
AESC	4003	ASSAULT SUPPORT ESCORT	MAWTS-1	730
AESC	4004	SUPPORTED UNIT CAPABILITIES	MAWTS-1	730
AAD	4005	ROTARY WING THREAT	MAWTS-1	730
NS LAT	4006	NIGHT LAT CONSIDERATIONS	MAWTS-1	730
AVIATION CAREER PROGRESSION MODEL (ACPM) 8000 PHASE EVENTS				
COMPLETE WITH CORE SKILL 2000 PHASE	8200	MACCS AGENCIES, FUNCTIONS, AND CONTROL - 8200	MAWTS-1	*
	8201	MWCS BRIEF - 8201	MAWTS-1	*
	8202	ACA AND AIRSPACE	MAWTS-1	*
	8210	AVIATION GROUND SUPPORT	MAWTS-1	*
	8230	ACE BATTLE STAFF	MAWTS-1	*
	8231	BATTLE COMMAND DISPLAY	MAWTS-1	*
	8240	SIX FUNCTIONS OF MARINE AVIATION	MAWTS-1	*
	8241	JTAR/ASR INTRO AND PRACT APPLICATION	MAWTS-1	*
	8242	SITE COMMAND PRIMER	MAWTS-1	*
COMPLETE WITH MISSION SKILL 3000 PHASE	8250	THEATER AIR GROUND SYSTEM	MAWTS-1	*
	8300	AIR DEFENSE	MAWTS-1	*
	8310	FORWARD ARMING REFUELING POINT (FARP) OPS	MAWTS-1	*
	8311	USMC TACTICAL FUEL SYSTEMS	MAWTS-1	*
	8320	JOINT STRUCTURE AND JOINT AIR OPERATIONS	MAWTS-1	*
	8321	JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEV	MAWTS-1	*
	8322	JOINT AIR TASKING CYCLE PHASE 2: TARGET DEV	MAWTS-1	*
	8323	JOINT AIR TASKING CYCLE PHASE 3: WEAP & ALLOC	MAWTS-1	*
	8324	JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PROD	MAWTS-1	*
	8325	JOINT AIR TASKING CYCLE PHASE 5: FORCE EXEC	MAWTS-1	*
	8326	JOINT AIR TASKING PHASE 6: COMBAT ASSESSMENT	MAWTS-1	*
8340	INTEGRATING FIRES & AIRSPACE W/IN THE MAGTF	MAWTS-1	*	

	8350	PHASING CONTROL ASHORE	MAWTS-1	*
	8351	TACRON ORGANIZATIONS AND FUNCTIONS	MAWTS-1	*
COMPLETE WITH SL/DL DESIG.	8630	TACTICAL AIR COMMAND CENTER (TACC)	MAWTS-1	*
	8660	JOINT OPS INTRO	MAWTS-1	*
	8640	JOINT DATA NETWORK	MAWTS-1	*
	8641	MAGTF THEATER & NAT'L ISR EMPLOYMENT	MAWTS-1	*
	8620	ESG/CSG INTEGRATION	MAWTS-1	*

To ensure the highest quality of training and readiness, squadron commanding officers will ensure that the T&R stage academic syllabus is conducted in accordance with the MAWTS-1 Course Catalog. This squadron academic training should be conducted once a week as a minimum. To add to the quality and scope of lectures given, the commanding officer should ensure that appropriately qualified individuals are sent to the schools listed below as a minimum.

<u>COURSE</u>	<u>ACTIVITY</u>
WTI	MAWTS-1 MCAS Yuma
Marine Division Tactics Course (MDTC)	MAWTS-1 MCAS Yuma
Navy Fighter Weapons School (TOPGUN)	NSAWC NAS Fallon
HARM University	NAWC China Lake
SLAM(ER) School	NAS Point Mugu
SLATS	NSAWC NAS Fallon
Warfighter School	Raytheon Tucson

207. SYLLABUS NOTES

1. General

a. All events, to include simulators, shall begin with a comprehensive brief with emphasis on admin procedures (from the USMC FA-18 ADMIN SOP), CRM, tactical procedures (from the USMC FA-18 TACSOP), performance standards, and aircrew expectations.

b. All events, to include simulators, shall terminate with a comprehensive debrief with emphasis on aircrew performance utilizing all evaluation techniques available (e.g., TACTS/TCTS, BDS, tapes, participating aircrews, and AIC personnel).

c. An ATF is required for any initial event completed by a Basic, Transition, Conversion of Refresher pilot, or as recommended by the squadron standardization board. In addition, ATFs are required for all flight leadership and instructor syllabus events.

d. The T&R manual is the Marine Corps aircrew training document. It establishes the training requirements and standards for Marine aircrew. When operational commanders assign FA-18 squadrons to prolonged commitments where specific T&R training is not available (e.g., deployed aboard CV), it is expected that degradation in some mission areas will occur. Commanding officers are authorized and encouraged to employ the FA-18 in specific missions relating to their current situation and avoid those mission areas that are not relevant. It is not intended for squadrons to train to specific mission areas and avoid mission areas that the FA-18 is capable of conducting but are difficult to coordinate. This type of mission specific training is granted only to squadron commanding officers deployed in austere conditions that prevent them from employing the T&R manual as written.

4 Mar 10

2. T&R Phases

a. The 2000 phase is considered to be Core Skill phase training. Completion of the 2000 phase should provide the FA-18 aircrew with the skills required to execute FA-18 missions that directly support the unit METL.

b. The 3000 phase is considered to be Mission Skill phase training. Completion of the 3000 phase ensures FA-18 aircrew are trained to execute missions that support the unit METL.

c. The 4000 phase is considered to have a lower probability of execution or theater specific training and is referred to as Core Plus Skills. Although core plus training events may provide valuable training opportunities, they are not measured as part of the unit reporting unless directed by higher.

d. The 5000 phase contains FLSE and instructor workup and certification syllabus events.

e. The 6000 phase contains requirements, qualification, and designation syllabus events.

f. The 3000 phase, Mission Skills, along with the number of flight leaders, are considered information required for readiness reporting.

g. The events within a stage should be flown in order. Aircrew should complete the prerequisites prior to beginning that stage. The commanding officer may waive this requirement based on aircrew experience and operational necessity but waivers should be avoided to the greatest extent possible.

3. Simulators. Flight simulators are required to enhance flight training and airborne proficiency. Simulators shall be flown in the prescribed order of training when squadrons are co-located with mission capable simulators. Where simulators are not available, commanders may authorize simulator events be either deferred to a later date or flown in the aircraft as required. Flight leadership, instructor, and FLSE designations shall not be granted until all events, including simulators, are completed. For these designations, simulator events must be executed in a capable device as prescribed or flown in the aircraft.

4. Proficiency Accountability. In order to complete a T&R code, aircrew must satisfactorily complete event requirements per assigned Performance Standards. Logging multiple training codes on a single sortie shall be avoided except for the following mission areas:

a. FAC(A), CAS, AR, SCAR, AI - Required ordnance for these events may be changed based on NCEA availability, range restrictions, or other operational constraints. When scheduling sorties, training officers are allowed to schedule additional training codes based on anticipated ordnance delivery profiles if the Performance Standards are met for the ordnance delivered. For example, aircrew are scheduled for CAS-2702 with the required ordnance (4 Mk-82/83, 250 20mm). The training officer may schedule additional training codes of AS-2307 and AS-2308. Even though all requirements for sortie completion may not be met for those two codes, the aircrew may log the additional codes, as long as the Performance Standards are met (e.g., valid delivery, within required CEP, etc).

b. Furthermore, exceptions should be made for sorties during which multiple unique training events can be completely accomplished. For example,

it is appropriate to log three separate training codes. If during the conduct of a sortie, the flight completes all of the specific event requirements for a syllabus event, conducts air-to-air refueling, and completes all AAR requirements, then completes a third syllabus event prior to landing. If multiple syllabus events are to be accomplished during a single flight evolution, appropriate planning, briefing, and debriefing time must be allotted to ensure that requisite training objectives can be met. Multiple codes shall also be logged for 5000 and 6000 phase tracking events.

5. Number of aircraft required. Some of the syllabus events in the T&R have 1+ or 2+ aircraft required. 1+ aircraft required implies that the flight may be flown as a single ship or greater. 2+ aircraft required implies that the flight may be flown as a section or greater.

6. Sortie Requirements. Sortie requirements state the minimum number of passes, engagements, or maneuvers required to demonstrate proficiency. T&R event requirements are written to allow completion on one sortie. Squadrons who cannot complete all stated requirements in one sortie (e.g., CV squadrons or squadrons limited by range access and regulations) may complete the requirements of an event in multiple sorties as long as the completion sorties are flown in succession and within normal currency windows defined by unit SOP. If an aircrew's currency expires (e.g., a warm up flight is required), or the event requirements cannot be completed on the next scheduled sortie, the event shall be re-flown in its entirety.

7. Performance Standards. Performance standards are listed for each T&R event description. These are training standards for individual aircrew performance and should be utilized by the evaluator as a guideline to determine the satisfactory completion of each event. If the aircrew did not successfully attain the performance standards, the training code shall not be logged as a completed flight.

8. T&R Chaining. Event chaining allows for the completion of more complex or advanced events using the same skill to update proficiency status of events. Only events in a sequence entailing demonstration of equivalent skills shall be chained. Refer to the Aviation T&R Program Manual Chapter 2 for detailed guidance on conditional chaining. For the purposes of this T&R, any flight event will chain FAM-2102, and any event flown with the aid of NVDs will chain NS-2402.

9. FA-18 Tactical T&R Refresher. The FA-18 Tactical T&R Refresher syllabus shall be completed in tactical squadrons. Aircrew should fly all R coded events. However, a Refresher need not fly every event within a stage to be re-qualified in that stage. The commanding officer may tailor the Refresher syllabus to fit the experience level of the Refresher per the Aviation T&R Program Manual. When all of the R coded events within a stage are successfully completed, all remaining events in that stage that are proficient or delinquent are updated. This assumes that the Refresher aircrew had completed all events in the stage during his previous tour. If the Refresher aircrew did not previously complete events in a stage of training, those events must be completed in addition to R coded events. Experienced aircrew (completed at least one fleet tour in an operational unit) who have not flown for an extended period of time, but not long enough to require FRS Refresher training, shall be assigned to the Refresher POI. When an individual assigned to the Basic POI has attained individual CSP in all Core Skills, that individual shall be re-assigned to the Refresher POI.

10. FA-18 FRS Training

a. FA-18 FRS training is provided at one of three designated FRSs, VMFAT-101, VFA-106, or VFA-125.

b. Pilot FRS training standards are the CNO approved FA-18A/C/D pilot syllabi. WSO FRS training is provided only at VMFAT-101. WSO training standards are the VMFAT-101 CNO sanctioned FA-18D WSO syllabi. The CNO FRS Pilot and WSO training syllabi are not updated in conjunction with this manual and are not included herein.

c. Basic/Transition/Conversion (CAT I/II) aircrew will be assigned to fly the entire FRS Basic (CAT I) training syllabus at a designated FRS training squadron.

d. FRS Refresher syllabi

(1) Pilots who have not flown the FA-18 in 366 days or greater but less than 485 days will complete a Safe-for-Solo (CAT V) syllabus at a designated FRS training squadron.

(2) Aircrew who have not flown the FA-18 in 486 days or greater but less than 730 days will complete a Modified FRS Refresher (CAT IV) syllabus at a designated FRS training squadron.

(3) Aircrew who have not flown the FA-18 in 731 days or greater will complete the comprehensive FRS Refresher syllabus (CAT III) at a designated FRS training squadron.

208. CORE SKILL INTRODUCTION FRS ACADEMIC PHASE

Not Applicable.

209. CORE SKILL INTRODUCTION PHASE

Not Applicable.

210. CORE SKILL PHASE

1. General. This phase contains basic Core Skill training essential to wartime employment of the unit platform/system. This phase should provide aircrew with the skills required to complete 3000 phase missions. This phase should be completed prior to beginning the 3000 phase events if practicable.

2. Familiarization (FAM)

a. Purpose. To maintain proficiency and familiarity with flight characteristics, limitations, and operating procedures.

b. General. This stage provides an arrival inventory of aircrew proficiency and allows aircrew to meet currency requirements for the FA-18. Squadron shall use these events for:

- (1) Squadron introduction and area familiarization.
- (2) Back in the saddle.
- (3) Periodic emergency procedures training.

c. Ground/Academic Training. Aircrew must be current per NATOPS flight manual and USMC FA-18 ADMIN SOP. Aircrew shall review the USMC FA-18 ADMIN SOP, TACSOP, local addendums, and local range manuals. The following administrative and academic tasks will be accomplished prior to completing the 2000 phase T&R codes.

EVENT	DATE	INSTRUCTOR
INSTRUMENT/LOCAL AREA FAM		
LOCAL DEPARTURE PROCEDURES		
LOCAL DIVERTS		
BINGO PROFILE		
TACAN APPROACH		
COURSE RULES		
WITHIN FIRST 10 FLIGHTS		
10 SECOND GO		
SECTION GO		
RADAR TRAIL DEPT		
NORDO APP - WING		
SECTION PAR		
ROLL & GO		
OVERHEAD		
WITHIN THE FIRST 20 FLIGHTS		
SECTION LANDING		
LEAD NORDO SECT		
NT NORDO WING		
FLT LD SEP - FINAL		
SECTION HUNG ORD		
SIM SINGLE ENG APPR TO WAVEOFF		
WITHIN THE FIRST 30 FLIGHTS		
LEAD NT NORDO		
OVERHEAD NT		
DIV HERD GO		
DIV STREAM GO		
DIV RDR TRAIL DEPT AS -4		

d. Flight and Simulator Event Training. (3 Events, 3.6 Hours).

SFAM-2101 1.0 30 R 1 TOFT S (NS)

Goal. Demonstrate proficiency in executing ground and airborne emergency procedures.

Requirement. Successfully execute the procedures for one ground emergency and two airborne emergencies.

Performance Standards

Execute the correct NATOPS immediate action and troubleshooting procedures.

Make appropriate flight leadership decisions.

FAM-2102 1.3 90 R 1 FA-18A/C/D A

Goal. Introduce local course rules, review USMC FA-18 ADMIN SOP, and review advanced handling characteristics of the FA-18.

Requirement. Practice standardized ground, departure, and arrival procedures IAW local course rules. Review advanced handling characteristics and familiarize with FA-18 performance envelope. Conduct G-awareness maneuver, high AOA maneuvering (≥ 35 alpha), pirouette control logic, max performance, and sustained performance turns at 15K'. Aircraft must be in a symmetric configuration and CG must be within limits for high AOA flight.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP.

Demonstrate proficiency and knowledge in local area procedures and course rules.

Demonstrate proficiency in local arrival procedures, including one simulated instrument approach.

Demonstrate proficiency in maintaining aircraft control throughout FA-18 envelope.

Prerequisite. SFAM-2101.

Range Requirements. AA.

FAM-2103 1.3 180 R 2 FA-18A/C/D A

Goal. Practice radar intercept and stern conversion mechanics against a single adversary.

Requirement. With a minimum of 30 NM separation, the fighter conducts a minimum of three intercepts, at least one to a stern conversion. The adversary will commence one intercept from 10-25K' at any airspeed, one intercept from ≥ 30 K' at any airspeed, and one intercept from 1-5K' ft at less than 250 KTS. Maneuvering $\pm 45^\circ$ and 5K'.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP.

Maintain proper formation and visual mutual support.

Demonstrate proficiency in basic radar mechanics IAW USMC TACSOP.

Arrive at a valid rear quarter weapons envelope with 0 to +100 KTS V_c .

Take valid shots.

Prerequisite. FAM-2102.

Ordinance. CATM-9X.

Range Requirements. AA.

3. Air-to-Air Refueling (AAR)

a. Purpose. To gain and maintain proficiency and familiarity with AAR operations.

b. General. Operations shall be conducted in accordance with the Air Refueling NATOPS Manual. Squadrons may conduct AAR as a part of other ferry or tactical missions.

c. Ground /Academic Training. Squadrons shall complete the AAR stage briefs before conducting any AAR flight per the NATOPS Flight Manual, Air-to-Air Refueling Manual, and local SOPs.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

AAR-2201 1.3 365 R 1+ FA-18A/C/D A

Goal. Become proficient in day aerial refueling.

Requirement. Perform all AAR procedures to include tanker rendezvous, observation position, astern position, refueling procedures, and tanker departure. Six contacts required for completion. If proficient, one contact required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP.

Adhere to Air-to-Air Refueling Manual.

Execute safe rendezvous procedures.

Use proper communications procedures.

From a stabilized position, successfully engage the basket expeditiously.

Respond quickly and safely to all communications and communication out signals from the tanker aircraft.

Prerequisite. FAM-2103.

Range Requirements. AAR.

External Syllabus Support. One compatible tactical or strategic tanker.

AAR-2202 1.3 365 R 1+ FA-18A/C/D A (NS)

Goal. Become proficient in night aerial refueling.

Requirement. Perform all AAR procedures to include: tanker rendezvous, observation position, astern position, refueling procedures, and tanker departure. Six contacts required for completion. If proficient, one contact required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP.

Adhere to Air-to-Air Refueling Manual.

Execute safe rendezvous procedures.

Use proper communications procedures.

From a stabilized position, successfully engage the basket expeditiously.

Respond quickly and safely to all communications and communication out signals from the tanker aircraft.

Prerequisite. AAR-2201.

Range Requirements. AAR.

External Syllabus Support. One compatible tactical or strategic tanker.

4. Air-to-Surface (AS)

a. Purpose. To develop proficiency in air-to-surface ordnance delivery.

b. General

(1) Emphasize surface-to-air countertactics, target acquisition, designation techniques, delivery modes, and attack parameters.

(2) AS-2307 through AS-2310 should be flown on a raked range with Weapon Impact Scoring Set (WISS) capability.

(3) Aircraft should be configured with an operable VTR/CVRS, ALQ-126B, ALR-67, TPOD, LST, CATM-9X, KY-58, MIDS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (13 Events, 15.4 Hours).

SAS-2301 1.0 365 1+ TOFT S (NS)

Goal. Practice medium and high altitude TTPs to survive in a surface-to-air threat environment. Emphasize correctly assessing the relative threat level and performing the appropriate preemptive or reactive maneuvers.

Requirement. Conduct a simulated two-ship air interdiction mission in a medium to high threat surface-to-air environment. Conduct preemptive and reactive maneuvers to defeat the simulated IADS. Consult current tactical publications for appropriate maneuvers.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters and safe escape maneuvers. Correctly assess the threat based upon the briefed scenario and aircraft system cueing.

Correctly perform briefed TTPs while maintaining situational awareness and mutual support.

SAS-2302 1.0 * 1 TOFT S (NS)

Goal. Practice supporting LGBs with a TPOD, designate targets with the APG-65/73, and track laser energy with the LST/LSS. Emphasize capabilities, limitations, cockpit displays, switchology, and employment techniques.

Requirement. Support LGBs to impact using the TPOD. Four self-lasing deliveries, four radar designations to TPOD handoff deliveries, and four deliveries using the LST/LSS to track an offboard laser are required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Demonstrate familiarity with TPOD, radar, and LST procedures and employment.
Adhere to tactical abort parameters and safe escape maneuvers.
Execute proper procedures for designation, weapon release, and guidance.

SAS-2303 1.0 365 1+ TOFT S (NS)

Goal. Practice low, medium, and high angle dive/bunt attacks with GP bombs, cluster munitions (CBUs), rockets, and gun using system and visual designations to computed deliveries. Emphasize switchology, stores management and displays, designation techniques, attack parameters (Z Diagrams), and valid delivery techniques.

Requirement. Conduct three low, three medium, three high angle, and three strafe attacks on multiple targets using Auto or CCIP. Half of the deliveries will commence with the target designated prior to dive/bunt, and half will use visual designations during the attack.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers.
Recognize errors in delivery techniques and makes corrections.

SAS-2304 1.0 365 R 1+ TOFT S (NS)

Goal. Practice employment of JDAM/LJDAM munitions. Emphasize weapons capabilities and limitations, mission planning factors, stores management, cockpit displays, and employment techniques.

Requirement. Plan and conduct multiple JDAM deliveries. A minimum of two PP, two TOO (one POS ABS, one POS REL) deliveries are required for completion. In addition, complete two LJDAM deliveries on moving targets.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers.
Execute proper procedures for weapon programming and release.

SAS-2305 1.0 365 1+ TOFT S (NS)

Goal. Practice employment of laser guided weapons, to include the Laser Maverick, LGB, DMLGB. Emphasize weapons capabilities and limitations, mission planning factors, stores management and cockpit displays, and employment techniques.

Requirement. Plan and conduct multiple LMAV, LGB, and DMLGB deliveries. A minimum of four LGB and four LMAV deliveries

are required for completion. Deliveries will be via self-lasing or an offboard laser designator.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers.
Execute proper procedures for weapon release and guidance.

Prerequisite. SAS-2302.

AS-2306 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Practice medium and high altitude TTPs to survive in a surface-to-air threat environment. Emphasize correctly assessing the relative threat level and performing the appropriate preemptive or reactive maneuvers.

Requirement Conduct a simulated two-ship air interdiction mission in a medium to high threat surface-to-air environment. Conduct preemptive and reactive maneuvers to defeat the simulated IADS. Consult current tactical publications for appropriate maneuvers.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers. Correctly assess the threat based upon the briefed scenario and aircraft system cueing.
Correctly perform briefed TTPs while maintaining situational awareness and mutual support.

Prerequisite. SAS-2301.

Ordnance. 40 Chaff/20 Flare. Internal TACTS Pod if using TACTS instrumented range.

Range Requirements. MOA, RSTD, TACTS, EW, EXP, COMPLEX.

External Syllabus Support. EW/TACTS.

AS-2307 1.3 90 R 2+ FA-18A/C/D A (NS)

Goal. Practice medium and high angle visual ordnance delivery skills using system and visual designations to computed delivery. Emphasize designation techniques, attack parameters, and delivery on a raked range.

Requirement. Conduct medium and high angle ordnance delivery on a raked range using Auto and CCIP. Six medium angle and six high angle deliveries required for completion. Half of each type delivery will utilize system designation prior to attack and half will use visual designations during attack.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers.

Prerequisite. SAS-2303.

Ordnance. 12 MK-76, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, STRAFE, LT INERT, EXP.

AS-2308 1.3 90 R 2+ FA-18A/C/D A (NS)

Goal. Practice medium and low angle visual ordnance delivery/strafing skills using system and visual designations to computed delivery. Emphasize designation techniques, attack parameters, and delivery on a raked range.

Requirement. Conduct medium and low angle ordnance deliveries and strafing on a raked range using Auto and CCIP. Three runs medium angle bombing, three runs low angle bombing, and three runs strafing are required for completion. Half of all runs will utilize system designation prior to attack and half will use visual designations during attack.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters, when applicable.

Prerequisite. AS-2307.

Ordnance. 6 MK-76, 500 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, STRAFE, LT INERT, EXP.

AS-2309 1.3 180 R 2+ FA-18A/C/D A (NS)

Goal. Practice low-level navigation ingress, pop attacks using the computed delivery modes as a single ship and section. Emphasize attack parameters, delivery modes, and designation techniques.

Requirement. Conduct low-level navigation ingress to a raked range prior to conducting pop attacks. Conduct pop attacks on a raked range using Auto and CCIP. Minimum of three single ship pop attacks and three section pop attacks are required for completion. Maintain proper frag avoidance via maneuvers and timing for simulated HE ordnance.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Brief carriage and release restrictions and frag avoidance parameters for notional Mk-83.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters, when applicable.
Maintain proper briefed formation, visual mutual support, and achieve briefed target separation.

Prerequisite. AS-2308.

Ordnance. 6 BDU-48, 6 MK-76, 40 Chaff/20 Flare.

Range Requirements. MTR, RSTD; RKD RNG, LT INERT, EXP.

AS-2310 1.3 180 2+ FA-18A/C/D A (NS)

Goal. Practice ordnance deliveries using a TPOD. Emphasize target acquisition and designation, attack parameters, and delivery.

Requirement. Conduct three level and three medium/high angle ordnance deliveries using TPOD for acquisition and designation. Three Auto or Scene Track attacks and three Nav stabilized attacks required for completion. If on a laser safe range, use TPOD lasing for target ranging.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Acquire and designate targets using the TPOD.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters, when applicable.

maintain TPOD designation on target until weapons impact.

Prerequisite. SAS-2305.

Ordnance. 6 MK-76, 2 LGTR, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, LSR, IR TGT, RDR TGT, LT INERT, EXP.

AS-2311 1.3 365 2+ FA-18A/C/D A (NS)

Goal. Practice laser guided weapon deliveries, emphasizing LGB/DMLGB and Laser Maverick (LMAV). Emphasize stores symbology, cockpit displays, attack parameters and delivery.

Requirement. Conduct LGB and LMAV attacks on IR significant targets of opportunity. Two LGB/LGTR runs and three captive LMAV runs are required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters, when applicable.

Prerequisite. AS-2310.

Ordnance. 2 LGTR, CATM-65E.

Range Requirements. RSTD, RKD RNG, LSR, LT INERT.

External Syllabus Support. Laser designator (ground or airborne).

AS-2312 1.3 * 2+ FA-18A/C/D A (NS)

Goal. Practice employment of JDAM/LJDAM munitions. Emphasize weapons capabilities and limitations, mission planning factors, stores management and cockpit displays, and employment techniques.

Requirement. Plan and conduct multiple JDAM deliveries. Two PP and four TOO (two POS REL and two POS ABS) deliveries minimum are required for completion of the event. TPOD shall be used.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Plan JDAM deliveries via JMPS.

Adhere to briefed air-to-ground timeline.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters, when applicable.

Prerequisite. SAS-2304.

Ordinance. 1 Captive JDAM, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, LSR, JDAM.

AS-2313 1.3 180 R 2+ FA-18A/C/D A (NS)

Goal. Practice section buddy lase/buddy bomb tactics. Emphasize LGB planning, laser deconfliction, DPI acquisition, laser marksmanship, weapon support, and section target area tactics.

Requirement. Conduct LGB deliveries using buddy lase/buddy bomb tactics. Conduct three target attacks utilizing buddy lase tactics and three target attacks utilizing buddy bomb tactics for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Acquire/designate target with TPOD.

Maintain proper geometry for weapons support until impact (buddy lase).

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. AS-2311.

Ordinance. 2+ LGTR, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, LSR, LT INERT, EXP.

5. Night Systems (NS)

a. Purpose. To develop proficiency using Night Vision Devices (NVDs).

b. General

(1) For aircrew to attain first-time proficiency in the NS-2400 stage, experienced oversight is required to develop fundamental NVD skills. Each

initial sortie in the NS-2400 stage requires a specific designated evaluator to lead, instruct, and evaluate the event. NS-2401, 2403, and 2404 shall be evaluated by a division leader or higher (FA-18D crews may conduct these three events with a mission commander WSO evaluating and a section leader leading the flight). NS-2402 and NS-2405 shall be evaluated by a section leader or higher. Reference each event description for the requisite oversight. No other T&R events requiring NVD usage may be executed by aircrew until they have completed all events in the NS-2400 stage.

(2) WSOs that have successfully completed the FRS Night Attack (NATK) syllabus are only required to fly NS-2402 and NS-2405. Upon successful completion of NS-2402 and NS-2405 these WSO aircrew shall be given credit for attaining proficiency in the remaining events in the 2400 phase NS syllabus.

(3) At the discretion of the commanding officer, aircrew complete and proficient with the NS-2400 stage may fly any night or night optional event in the T&R with the aid of NVDs. During HLL conditions (lux of 0.0022 or greater) aircrew are limited to a minimum altitude of 500' AGL for all night sorties. During LLL conditions, aircrew are limited to a minimum altitude of 1K' AGL. In any light level, no lower than local SOPs or T/M/S capabilities (e.g., non-NVG compatible FA-18s are restricted to 1K' AGL regardless of lux).

(4) Consult T&R Program Manual for applicable light level and currency restrictions for NS sorties.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (5 Events, 6.2 Hours).

SNS-2401 1.0 * 2 TOFT S NS

Goal. Practice donning and removing NVDs, formation flight, radar intercepts, and high altitude ordnance delivery using NVDs.

Requirement. Evaluated by division leader or mission commander WSO. Perform formation flight and radar intercepts with the aid of NVDs. Perform medium and high altitude ordnance deliveries and radar intercepts. Two break-up and rendezvous, two radar intercepts, and four ordnance deliveries using high and medium angle dives are required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Know and understand visual illusions associated with NVD usage.

Maintain pre-briefed formations.

Conduct safe rendezvous.

Conduct radar intercept IAW USMC TACSOP to arrive within a valid LAR.

Take valid shots.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters.

Prerequisite. FAM-2103.

NS-2402 1.3 180 R 2 FA-18A/C/D A NS

Goal. Introduce formation flying and intercept procedures with the aid of NVDs.

Requirement. Evaluated by section leader. Fly goggle tac wing formation enroute to the area. Practice goggle cruise/tac wing/spread/trail formations above 5K' AGL. Introduce various combinations of light options and range cues. Perform four break up and rendezvous. Conduct one forward quarter radar intercept to an AIM-120 LAR and one stern intercept to an AIM-9 LAR.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Maintain visual mutual support.
Maintain pre-briefed formations.
Conduct safe rendezvous.
Conduct radar intercept IAW USMC TACSOP to arrive within valid LAR.
Take valid shots.

Prerequisite. FAM-2103, SNS-2401.

Ordnance. CATM-9X.

Range Requirements. AA.

NS-2403 1.3 * 2 FA-18A/C/D vs. 2 Adversaries A NS

Goal. Conduct section attacks against medium altitude, non-maneuvering forward quarter capable adversaries using NVDs. Emphasize section intercept procedures using NVDs, maintaining proper formation, sorting, BVR weapons employment, and standardized communications. Demonstrate the effect of expendables on NVDs.

Requirement. Evaluated by division leader or mission commander WSO. With a minimum of 50 NM separation, the fighters commence the intercept at medium altitude. The adversaries commence the intercept from 10K'-30K', any airspeed, non-maneuvering. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. Three runs required for completion. One intercept will be a VID to an ICAO escort. Expendables should be used by the adversaries and fighters on at least one run.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Maintain visual mutual support.
Perform radar mechanics IAW TACSOP.
Adhere to briefed air-to-air timeline IAW TACSOP.
Take valid shots.

Prerequisite. NS-2402.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, EXP.

External Syllabus Support. Two adversaries. AIC.

NS-2404 1.3 * R 2 FA-18A/C/D A NS

Goal. Introduce medium and low angle dive deliveries, and low angle pop attack deliveries utilizing NVDs.

Requirement. Evaluated by division leader or mission commander WSO. Conduct three medium and three low angle dive deliveries, and three individual low angle pop attacks on a raked range using NVDs. Minimum recovery altitude should be 5K' AGL for medium altitude deliveries and 1K' AGL for low angle deliveries and low angle pop attacks. Minimum ingress altitude shall be 500' AGL (>.0022 lux required) for pop attacks. Nine deliveries are required for completion.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Know and understand visual illusions associated with NVD usage.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters.

Prerequisite. AS-2309, NS-2402.

Ordnance. 12 MK-76, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, WISS, EXP.

NS-2405 1.3 * 2 FA-18A/C/D A NS

Goal. Introduce section medium/high altitude section LGB deliveries.

Requirement. Evaluated by section leader. Conduct section LGB attacks using NVDs and onboard sensors. Six runs using the appropriate air-to-ground timeline and TPOD deliveries required for completion. Emphasize mutual support, target acquisition, and target area tactics.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Know and understand visual illusions associated with NVD usage.

Acquire and designate briefed target with sensors.

Maintain mutual support and proper visual lookout with NVD scan adhering to mission crosscheck times.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters.

Prerequisite. AS-2311, NS-2404.

Ordnance. 2+ LGTR, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, TGT, LSR, LT INERT.

6. Air-to-Air (AA)

a. Purpose

(1) To increase aircrew proficiency in employing the FA-18 in all aspects of the air-to-air arena.

(2) Knowledge of air-to-air aircraft systems, weapons, and performance characteristics should be emphasized throughout this phase.

(3) For individual employment, LARs and shot validity for air-to-air weapons will be stressed on every mission.

(4) For multi-plane evolutions, mission objectives, timeline awareness, mutual support, sensor usage, standardized comm, weapons employment, AIC integration, short range radar mechanics, defensive reaction, targeting and flow decisions will be stressed on every mission. AIC and LINK 16 should be utilized to the maximum extent possible. If co-located with AIC controllers, a face-to-face brief and debrief should be conducted for all engagements that begin from beyond visual range. A TACTS/TCTS range shall be utilized to the maximum extent possible. If units are not co-located with an appropriate TACTS/TCTS facility, every effort should be made to ensure aircrew have the ability to fly on and debrief in a TACTS/TCTS facility prior to completing the AA-2500 stage.

b. General

(1) For aircrew to attain first-time proficiency in the AA-2500 stage, experienced oversight is required to develop fundamental skills. Each initial sortie in the AA-2500 stage requires a specific designated evaluator to load, instruct, and evaluate the event. AA-2501, 2505, 2507, 2508 shall be evaluated by a section leader or higher (FA-18D section leader equivalent WSOs may only evaluate the simulator events). AA-2502 through AA-2504, AA-2506, 2508, 2510 shall be evaluated by a division leader. Reference each event description for the requisite oversight. No other T&R events requiring air-to-air employment may be executed by aircrew until they have completed all events in the AA-2500 stage.

(2) Aircraft should be configured with an operable VTR/CVRS, ALR-67, CATM-9X, and chaff/flare. For multi-plane evolutions, in addition to the above listed configuration, JHMCS, CATM-7/120, KY-58, ALQ-126B, CIT, MIDS, and TACTS/TCTS pod should be utilized.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (10 Events, 12.1 Hours).

SAA-2501 1.0 365 1 TOFT S

Goal. Conduct radar attacks against a known number of adversaries with SAR-1/IR-3 missiles. Emphasize intercept procedures, timeline awareness, sorting, RWR tactics, weapons employment, SRR mechanics, and standardized comm.

Requirement. Evaluated by section leader or section leader equivalent WSO. With a minimum of 50 NM separation, the fighter will execute notch-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will not be satisfied until post notch mechanics. Adversaries will

maintain hot aspect and take shots at high altitude expected shot range, MDR + 2 NM, MDR - 2 NM, and 5 NM. Four intercepts are required for completion.

Performance Standards

Use proper communications throughout all phases of the intercept.
Execute proper sort, merge geometry, SRR mechanics IAW the TACSOP.
Execute defensive reactions appropriate to timeline.
Timeline awareness.

Prerequisite. FAM-2103.

AA-2502 1.3 180 R 2 FA-18A/C/D A

Goal. Practice SSD and mechanics of offensive BFM. Emphasize energy management and assessment, turn circle theory, deck awareness, and weapons employment recognition.

Requirement. Evaluated by division leader. One SSD, three offensive perch setups, and one guns defense (executed from an offensive start) required. Offensive perch setups will be conducted with 3K', 6K', and 9K' separation between aircraft. The guns defense start is at the discretion of the flight lead.

Performance Standards

Adhere to USMC ADMIN SOP and TACSOP.
Maintain offensive position.
Employ follow on weapons.
Separate prior to becoming neutral.
Take valid shots.

Prerequisite. FAM-2103, AA-2501.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

AA-2503 1.3 180 R 2 FA-18A/C/D A

Goal. Practice SSD and mechanics of defensive BFM. Emphasize energy management and assessment, turn circle theory, deck awareness and weapons employment recognition.

Requirement. Evaluated by division leader. One SSD, three defensive perch setups and one guns defense (executed from a defensive start) required. Defensive perch setups will be conducted with 3K', 6K', and 9K' separation between aircraft. The guns defense start is at the discretion of the flight lead.

Performance Standards

Adhere to USMC ADMIN SOP and TACSOP.
Defeat initial weapons employment.
Maneuver to deny follow-on WEZ.
Neutralize attacker.
Separate or kill attacker.

Prerequisite. AA-2502.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

AA-2504 1.3 90 R 2 FA-18A/C/D A

Goal. Practice SSD, flat scissors, rolling scissors, and BFM against a CAT 4 adversary from a neutral start. Emphasize energy management and assessment, game plan development, offensive and defensive transition recognition, weapons employment, deck awareness and expendable usage.

Requirement. Evaluated by division leader. One SSD, flat scissors, rolling scissors, one neutral engagement from a known start required for completion. The altitude for known start engagements should be varied to demonstrate the impact of altitude on fighter performance and game plan.

Performance Standards

Deny opponent weapon employment opportunities.
Achieve first weapon employment opportunity.
Gain positional advantage.
Employ follow on weapons.
Transition to offensive or defensive BFM.
Separate or kill attacker.

Prerequisite. AA-2503.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

AA-2505 1.3 365 R 1 FA-18A/C/D vs. 1 Dissimilar Adversary A

Goal. Evaluate BFM skills versus a dissimilar adversary.

Requirement. Evaluated by section leader. Three engagements required for completion.

Performance Standards

Executes appropriate game plan for adversary category.
When applicable, employ mission performance standards for OBFM, DBFM, or HA.

Prerequisite. AA-2504.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

External Syllabus Support. One dissimilar adversary. If FA-18 aircrew is not AA stage complete, the adversary must be instructor qualified.

AA-2506 1.3 180 R 2 FA-18A/C/D vs. 2 Dissimilar Adversaries A

Goal. Practice section maneuvering against dissimilar adversaries armed with IR-3 missiles from offensive, neutral, and defensive starts.

Requirement. Evaluated by division leader. One abeam or stern engagement by one or two adversaries from a visual set and multiple entries from any aspect (by single adversary and section) in a tap-the-cap scenario are required for completion. No kills should occur prior to the initial merge for each engagement.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.
Detect via SRR, RWR, and visual lookout.
Accurately ID.
Effective section engaged maneuvering.
Take valid shots.

Prerequisite. AA-2501, AA-2504.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

External Syllabus Support. Two dissimilar adversaries.

SAA-2507 1.0 365 1 TOFT S

Goal. Conduct radar attacks against an unknown number of adversaries with SAR-1/IR-3 missiles.

Requirement. Evaluated by section leader or section leader equivalent WSO. With a minimum of 50 NM separation, the fighters will execute notch-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment. Adversaries will show one intercept with hot aspect, employing on timeline; two intercepts AMRAAM aware; two intercepts RWR aware. Five intercepts are required for completion.

Performance Standards

Use proper communications throughout all phases of the intercept.
Execute proper sort, maneuvering targets, SRR mechanics IAW the TACSOP.
Recognize offensive and defensive maneuvers.
Execute appropriate defensive reactions.
Timeline awareness.

Prerequisite. AA-2501.

SAA-2508 1.0 365 1 TOFT S

Goal. Conduct intercepts against adversaries with SAR-1/IR-3 missiles in an EA environment.

Requirement. Evaluated by section leader or section leader equivalent WSO. With a minimum of 50 NM separation, the fighter will execute drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment. Adversaries will show two intercepts with hot aspect, employing with one shooter and one jammer (stand-off jammer) techniques; three intercepts with maneuvers employing self-protect jamming techniques. Five intercepts are required for completion.

Performance Standards

Use proper communications throughout all phases of the intercept.

Execute proper radar mechanics in a EA environment.

Recognize threat tactics and different jamming techniques.

Take valid shots.

Timeline awareness.

Prerequisite. SAA-2507.

AA-2509 1.3 180 R 2 FA-18A/C/D vs. 2 Adversaries A

Goal. Conduct radar attacks against an unknown number of adversaries with SAR-1/IR-3 missiles. Emphasize section intercept procedures, sorting, RWR tactics, weapons employment, timeline awareness, and standardized communications.

Requirement. Evaluated by division leader. With a minimum of 50 NM separation, the fighters will execute drag-to-defend tactics. The adversaries will commence the intercept at any altitude and airspeed, maneuvering. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. PHID criteria will be satisfied in time to allow BVR weapons employment. One defined vul required required for completion.

Performance Standards

Maintain mutual support.

Utilize clear, concise communications IAW comm brevity.

Timeline awareness.

Recognize offensive and defensive maneuvers.

Take valid shots.

Appropriate defensive reactions.

Prerequisite. AA-2506, SAA-2507.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two (Dissimilar) Adversaries.

AA-2510 1.3 180 R 2 FA-18A/C/D vs. 2 Dissimilar Adversaries A

Goal. Practice section VID intercepts versus a section of non-maneuvering/maneuvering adversaries armed with SAR-1/IR-3

missiles. Focus on radar mechanics, formation, communications, tactical timeline employment, and VID intercept mechanics.

Requirement. Evaluated by division leader. Commence the intercept with a minimum of 50 NM separation. Fighters will execute a RWR reactive VID. Fighter weapons control status is tight with a PHID criteria that prevents weapons employment until a VID. Adversaries weapons control status is unknown. Adversaries will commence intercepts from between 1K' and 40K' and are cleared to maneuver. Adversaries will maintain a single sortable formation throughout the intercepts and all adversary tactics will be complete NLT 15 NM prior to the merge. Three intercepts required for completion.

Performance Standards

Utilize clear, concise communications IAW comm brevity.
Achieve radar sort.
Maintain mutual support.
Execute the briefed VID game plan.
Achieve valid shot at the merge.

Prerequisite. AA-2509.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

7. Low Altitude Tactics (LAT)

a. Purpose. To develop proficiency in FA-18 low altitude tactics.

b. General

(1) Emphasize LAT procedures, communications, and maneuver techniques per the LATI Program Guide. Upon completion of the LAT stage, aircrew should be able to perform low altitude navigation, tactical ingress into a defended target at low altitude, and execute defensive maneuvers against surface-to-air or air-to-air threats.

(2) LAT-2600 stage events shall be flown on an approved LAT course.

(3) SLAT-2601 requires a LATI at the simulator console. LAT-2602 and 2603 require a LATI chase when the aircrew is not LAT qualified.

(4) Currency and altitude restrictions as stated in the T&R Program Manual apply.

(5) Aircraft should be configured with an operable VTR/CVRS, ALR-67, CATM-9X, TPOD, KY-58, and chaff/flare.

(6) Upon completion of this stage, aircrew may be designated LAT qualified by their commanding officer.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (3 Events, 3.6 Hours).

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SLAT-2601 1.0 * R 1 TOFT S

Goal. Practice two dimensional and three dimensional LAT and threat reactions. Emphasize LAT procedures, communications, and maneuver techniques.

Requirement. Evaluated by LATI. Perform the 50% rule, check/hard/break turns, MAC, speed rush base line, vertical jinks, straight ahead oblique jinks, turning oblique jinks, reverse oblique jinks, and threat reactions.

Performance Standards

Recite all LAT rules from memory without error.
Quickly respond to commands from the chase aircraft.
Perform maneuvers as briefed.
Remain above briefed minimum altitude.
Adhere to dive recovery rules.

Prerequisite. AS-2306, AS-2308.

LAT-2602 1.3 180 R 2 FA-18A/C/D A

Goal. Develop proficiency in single ship conventional LAT. Emphasize LAT procedures, communications, and maneuver techniques.

Requirement. Evaluated by LATI. As a single ship, complete a circuit performing a descent to comfort level, straight and level, ridgeline crossings, speed rush base line, and check/hard/break turns. Complete a second circuit performing the 50% rule, vertical jinks, straight ahead oblique jinks, turning oblique jinks, and reverse oblique jinks. Complete a third circuit performing the 50% rule, guns jink, level S, SAM weave and SAM break.

Performance Standards

Quickly respond to commands from the chase aircraft.
Perform maneuvers as briefed.
Remain above briefed minimum altitude.
Adhere to dive recovery rules.
Execute the appropriate threat reaction IAW the TACSOP.

Prerequisite. AS-2309, SLAT-2601.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. LAT.

LAT-2603 1.3 * 2 FA-18A/C/D A

Goal. Develop proficiency in section conventional LAT and low altitude intercepts. Emphasize LAT procedures, communications, and maneuver techniques.

Requirement. Evaluated by LATI. Complete one circuit performing a section descent to comfort level, straight and level, ridgeline crossings, and section called/uncalled turns. Complete a second circuit performing section threat reactions to a section target attack. Complete a third circuit

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performing low altitude intercept with the fighter at 300-500' AGL and the adversary at 2K'-4K' AGL.

Performance Standards

Use standardized communication.

Perform maneuvers in accordance with LAT rules and brief.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Execute the appropriate threat reaction IAW the TACSOP.

Take valid shots.

Prerequisite. LAT-2602.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. LAT, TGT.

8. Close Air Support (CAS)

a. Purpose. To develop proficiency in the tactical employment of the FA-18 in the CAS role during day and night at medium altitude in a low to medium threat environment.

b. General. The commanding officer may authorize inert ordnance in lieu of live ordnance when necessary. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD, LST, KY-58, DCS/VME, MIDS, JHMCS, and chaff/flare. At the completion of this stage aircrew should be able to:

(1) Demonstrate proficiency in the execution of CAS under Type 1 terminal attack control, day and night, from medium altitude. Introduce Type 2 and 3 terminal attack control employment scenarios.

(2) Deliver GP and forward firing ordnance on tactical targets both day and night in the CAS environment.

(3) Employ GP ordnance using reactive weaponeering principles.

(4) The aircrew should be familiar with the use of the following external agencies and how to integrate them in the CAS stage:

(a) MACCS integration.

(b) Supporting arms.

(c) Joint Terminal Attack Controller (JTAC)/FAC(A).

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (3 Events, 3.6 Hours).

SCAS-2701 1.0 * R 1 TOFT S

Goal. Review CAS execution using Type 1 terminal attack control. Introduce Type 2 and 3 terminal attack control.

Requirement. Conduct four attacks under Type 1 terminal attack control (two medium/high altitude dive deliveries, two pop attacks), two attacks utilizing Type 2 terminal attack

control (one bomb on target, one bomb on coordinate), and one attack utilizing Type 3 terminal attack control. Emphasize systems management, targeting pod employment, target area tactics, timing, delivery mechanics, target correlation, JCAS communications, reactive weaponeering, and threat countertactics. TPOD required.

Performance Standards

Comply with JCAS TTPs.
Achieve effects on target.
Comply with tactical abort parameters.
Execute proper JCAS comm.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. SAS-2303.

Ordnance. 4 MK-82/83, 500 20mm.

CAS-2702 1.3 180 R 2 FA-18A/C/D A

Goal. Conduct day CAS execution using GP ordnance and Type 1 terminal attack control.

Requirement. Conduct three attacks under Type 1 terminal attack control (at least one attack must be high threat, pop attack). Emphasize systems management, timing, targeting pod employment, target correlation, target area tactics, reactive weaponeering, JCAS communications, and threat countertactics. TPOD required.

Performance Standards

Comply with JCAS TTPs.
Comply with tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Execute JCAS comm.
Execute appropriate threat countertactics.
TOT +/- 15 secs.

Prerequisite. AS-2309, SCAS-2701.

Ordnance. 4 Mk-82/83, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP.

External Syllabus Support. JTAC or FAC(A).

CAS-2703 1.3 180 R 2 FA-18A/C/D A NS

Goal. Conduct night CAS execution using GP ordnance, Type 1 and 2 terminal attack control.

Requirement. Conduct two attacks under Type 1 terminal attack control and one attack under Type 2 terminal attack control. Emphasize systems management, timing, target correlation,

target area tactics, IR marker employment if applicable, reactive weaponeering, and JCAS comm. TPOD required.

Performance Standards

Comply with JCAS TTPs.

Comply with tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Execute appropriate threat countertactics.

Execute JCAS comm.

TOT +/- 15 secs.

Prerequisite. NS-2402, NS-2405, CAS-2702, ACPM 8200-8250.

Ordnance. 4 Mk-82/83, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP.

External Syllabus Support. JTAC or FAC(A).

211. MISSION SKILL PHASE

1. General. This phase trains FA-18 A/C/D aircrew in CAS, OAAW, AAD, AR, SCAR, AI, and SEAD, and FA-18D aircrew FAC(A) and TAC(A). Completion of the 3000 phase syllabus is a prerequisite to start the section leader work-up syllabus. WSOs must complete the 3000 phase and A/S events of the section leader syllabus prior to beginning FAC(A) work-up.

2. Close Air Support (CAS)

a. Purpose. To develop proficiency in the tactical employment of the FA-18 in Type 2 and 3 CAS during day and night. Additionally, develop proficiency in urban CAS techniques.

b. General. The commanding officer may authorize inert ordnance in lieu of live ordnance when necessary. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD, LST, KY-58, DCS/VMF, MIDS, and chaff/flare when possible. At the completion of this stage aircrew should be able to:

(1) Demonstrate proficiency in the execution of CAS under Type 2 and 3 terminal attack control, day and night, at medium altitude and low altitude.

(2) Demonstrate proficiency executing CAS in an urban environment.

(3) Deliver unguided, forward firing, and inertial aided munitions on tactical targets both day and night in the CAS environment.

(4) Employ ordnance using reactive weaponeering principles.

(5) The aircrew should be familiar with the use of the following external agencies and how to integrate them in the CAS stage:

(a) MACCS integration.

(b) Supporting arms.

(c) Joint Terminal Attack Controller (JTAC)/FAC(A).

- c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.
- d. Flight and Simulator Event Training. (4 Events, 4.9 Hours).

SCAS-3101 1.0 * 1+ TOFT S (NS)

Goal. Conduct CAS execution using Type 2 and Type 3 terminal attack control.

Requirement. Conduct three attacks under Type 2 and 3 terminal attack control. Emphasize systems management, targeting pod employment, target correlation (if required), bomb on target (BOT) and bomb on coordinate (BOC), PGM employment, reactive weaponeering, threat countertactics, and JCAS comm.

Performance Standards

Comply with JCAS TTPs.
Comply with tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
TOT +/- 15 secs.
Execute proper JCAS comm.

Prerequisite. SCAS-2701.

CAS-3102 1.3 180 R 2 FA-18A/C/D A

Goal. Conduct day CAS using Type 2 and 3 terminal attack control with PGMs.

Requirement. Conduct two attacks under Type 2 terminal attack control and one attack under Type 3 terminal attack control. Emphasize systems management, targeting pod employment, target correlation (if required), bomb on target (BOT) and bomb on coordinate (BOC) contracts, PGM employment, reactive weaponeering, threat countertactics, and JCAS comm.

Performance Standards

Comply with JCAS TTPs.
Comply with tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Execute appropriate threat countertactics.
Execute proper JCAS comm.
TOT +/- 15 secs.

Prerequisite. CAS-2703, SCAS-3101.

Ordnance. 1 GBU-31/32/38, 2 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDAM.

External Syllabus Support. JTAC or FAC(A).

CAS-3103 1.3 180 R 2 FA-18A/C/D A NS

Goal. Conduct night CAS using Type 2 and 3 terminal attack control using PGMs.

Requirement. Conduct two attacks during night under Type 2 terminal attack control and one attack under Type 3 terminal attack control. Emphasize systems management, targeting pod employment, target correlation (if required), bomb on target (BOT) and bomb on coordinate (BOC), PGM employment, reactive weaponeering, threat countertactics, and JCAS comm.

Performance Standards

Comply with JCAS TTPs.

Comply with tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Execute appropriate threat countertactics.

Execute proper JCAS comm.

TOT +/- 15 secs.

Prerequisite. CAS-3102.

Ordnance. 1 GBU-31/32/38, 2 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDAM.

External Syllabus Support. JTAC or FAC(A).

CAS-3104 1.3 365 R 2 FA-18 A/C/D A (NS)

Goal. Conduct urban CAS.

Requirement. Conduct three CAS attacks in an urban environment. Emphasize systems management, targeting pod employment, target PHID/correlation, target area geometry, JTAC integration, and weapons employment. This sortie can be completed using an actual urban area with simulated ordnance if an urban target complex is not available.

Performance Standards

Comply with JCAS TTPs.

Comply with tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Execute appropriate threat countertactics.

Execute proper JCAS comm.

TOT +/- 15 secs.

Prerequisite. CAS 3103.

Ordnance. 1 GBU-31/32/38 inert, 2 GBU-12/16 inert, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, SST, EW, JCAS, URBN WPNS, TGT-DISP, TGT-MOVE, EXP, JDAM.

External Syllabus Support. JTAC or FAC(A).

3. Armed Reconnaissance (AR)

a. Purpose. To develop proficiency in conducting Armed Reconnaissance missions.

b. General. Emphasize mission planning, mutual support, target acquisition/recognition/identification, target area tactics, and information flow through the C³ system. The commanding officer may authorize inert ordnance in lieu of live ordnance when necessary. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD, binoculars, LST, KY-58, DCS/VMF, MIDS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (3 Events/3.6 Hours).

SAR-3201 1.0 365 R 2 TOFT S (NS)

Goal. Conduct day med/high altitude unguided and guided ordnance AR. Emphasize mission planning, target precedence, search pattern, mutual support, target area tactics, intra-section target communication, time-to-kill, and information flow through the C³ system.

Requirement. Conduct day med/high altitude unguided AR to locate, plot, and destroy targets of opportunity. Two unguided ordnance attacks, four PGM attacks (two with JDAM and two with LGBs), and two strafe attacks are required for completion. Two target attacks must be on a moving target set.

Performance Standards

Conduct visual reconnaissance of assigned area and detect targets.

Perform target area tactics appropriate for scenario.

Minimize threat exposure and perform appropriate threat countertactics.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. SAS-2303, SAS-2304, SAS-2305.

AR-3202 1.3 180 R 2 FA-18A/C/D A

Goal. Conduct day med/high altitude unguided ordnance AR. Emphasize mission planning, target precedence, search pattern, mutual support, sensor employment, intra-section target communication, time-to-kill, target area tactics, and information flow through the C³ system.

Requirement. Conduct day med/high altitude unguided ordnance AR to locate and destroy targets of opportunity. Four unguided ordnance attacks and two strafe attacks are required for completion.

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Performance Standards

Conduct visual and sensor reconnaissance of assigned area and detect targets.

Employ appropriate weapon and tactics for threat and target type.

Minimize threat exposure and perform appropriate threat countertactics.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. AS-2309, AS-2313, SAR-3201.

Ordnance. 4 Mk-82/83, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.

AR-3203 1.3 180 R 2 FA-18A/C/D A NS

Goal. Conduct night AR employing PGMs. Emphasize mission planning, target precedence, search pattern, mutual support, sensor employment, intra-section target communication, time-to-kill, target area tactics, and information flow through the C³ system.

Requirement. Conduct night med/high altitude AR employing PGMs to locate and destroy targets of opportunity. One JDAM attack or one IMAV attack, one LGB attack, and two strafe attacks are required for completion.

Performance Standards

Conduct visual/sensor reconnaissance of assigned area and detect targets.

Employ appropriate weapon and tactics for threat and target type.

Minimize threat exposure and perform appropriate threat countertactics.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. NS-2402, NS-2405, AR-3202.

Ordnance. 1 IMAV (live or captive) or 1 GBU-31/32/38, 1 GBU-10/12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.

4. Strike Coordination and Reconnaissance (SCAR)

a. Purpose. To develop proficiency in conducting Strike Coordination and Reconnaissance missions.

b. General. Emphasize mission planning, mutual support, target acquisition/recognition/identification, target marking/coordinate passage, target area tactics, strike asset coordination and information flow through the C³ system. Operable VTR/CVRS, ALR-67, CATM-9X, TPOD, binoculars, KY-58, DCS/VMF, MIDS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

SCAR-3301 1.3 365 R 2+ FA-18A/C/D A

Goal. Conduct day SCAR. Emphasize locating targets in accordance with a target precedence list, notifying AR assets of targets and current threat, target marking/coordinate passage, and proper information flow through the C³ system.

Requirement. Coordination of one section of AR required for completion.

Performance Standards

Effectively locate and pass targets to AR assets.
Prioritize targets in accordance with target precedence list.
Effectively coordinate target attacks.
Effectively pass target and threat information to AR assets and C³.

Prerequisite. AR-3202.

Ordnance. Any combination of 2 pods 2.75.0"/5.0" rockets, 2 Mk-82/83/84, 2 GBU-10/12/16, 4 CBU-99B/B, or 2 GBU-10/12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR.

External Syllabus Support. One section AR assets.

SCAR-3302 1.3 365 R 2+ FA-18A/C/D A NS

Goal. Conduct night SCAR. Emphasize locating targets in accordance with a target precedence list, notifying AR assets of targets and current threat, target marking/coordinate passage, and proper information flow through the C³ system.

Requirement. Coordination of one section of AR required for completion.

Performance Standards

Effectively locate and pass targets to AR assets.
Prioritize targets in accordance with target precedence list.
Effectively coordinate target attacks.
Effectively pass target and threat information to AR assets and C³.

Prerequisite. NS-2402, AR-3203, SCAR-3301.

Ordnance. Any combination of 2 pods 2.75.0"/5.0" rockets, 2 Mk-82/83/84, 2 GBU-10/12/16, 4 CBU-99B/B, or 2 GBU-10/12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR.

External Syllabus Support. One section AR assets.

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5. Offensive Anti-Air Warfare (OAAW) - For A/C only

a. Purpose. To utilize Core Skills in employing the FA-18 in Offensive Anti-Air Warfare missions. Emphasize mission planning, mutual support, knowledge of air-to-air weapons and tactics, sensor usage, standardized communication, weapons employment, timeline awareness, AIC integration, short range radar mechanics, and targeting.

b. General

(1) AIC, MIDS, CATM-9X, CATM-7/120, JHMCS, chaff/flare, and TACTS/TCTS range should be utilized to the maximum extent possible. If co-located with AIC controllers, a face-to-face brief and debrief should be conducted for all engagements.

(2) To gain and maintain proficiency in AAW missions.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (4 Events, 4.9 Hours).

SOAAW-3401 1.0 365 R 2+ TOFT S

Goal. Conduct an OCA (Sweep) mission against an unknown number of adversaries with SAR-1/IR-3 missiles. Emphasize section intercept procedures, targeting and sorting, valid weapons employment, timeline awareness, and standardized communication.

Requirement. With a minimum of 50 NM separation, the fighters will execute drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 IAW the TACSOP. Four intercepts required for completion.

Performance Standards

Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.

Prerequisite. SAA-2508.

OAAW-3402 1.3 180 R 2+ FA-18A/C vs. 2+ (DISS) ADV A (NS)

Goal. Conduct an OCA (Screen/Close Escort) mission against an unknown number of dissimilar adversaries with SAR-1/IR-3 missiles. Emphasize section intercept procedures, maintaining proper formation and geometry, targeting and sorting, and standardized communications.

Requirement. With a minimum of 50 NM separation, the fighters will conduct close escort tactics of another element (strikers) and execute notch-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AA-2510, SOAAW-3401.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more (dissimilar) adversaries.

OAAW-3403 1.3 180 R 4 FA-18A/C vs. 2+ (DISS) ADV A

Goal. Conduct a division OCA (Pre-Strike Sweep), in direct support of a strike package, against an unknown number of adversaries with SAR-2 and/or AR-1/IR-3 missiles. Emphasize division intercept procedures, maintaining proper formation, targeting and sorting, valid weapons employment, timeline awareness, and standardized communications.

Requirement. With a minimum of 60 NM separation, the fighters will conduct a PSS for a defined vul period utilizing drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AA-2510, SOAAW-3401.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more (dissimilar) adversaries.

OAAW-3404 1.3 180 R 4 FA-18A/C vs. 2+ (DISS) ADV A NS

Goal. Conduct a night division OCA (Sweep) mission against an unknown number of dissimilar adversaries with SAR-2 or AR-1/IR-3 missiles. Emphasize division intercept procedures, maintaining proper formation, targeting and sorting, valid weapons employment, timeline awareness, and standardized communications.

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Requirement. With a minimum of 60 NM separation, the fighters will conduct sweep tactics at night and execute drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP.

Performance Standards

- Maintain mutual support.
- Execute proper radar mechanics.
- Target as directed.
- Recognize threat tactics.
- Take valid shots.
- Timeline awareness.
- Tactical decision making IAW mission objectives.

Prerequisite. NS-2402, NS-2405, OAAW-3403.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more dissimilar adversaries.

6. Suppression of Enemy Air Defenses (SEAD)

a. Purpose. To develop proficiency in SEAD weapons and tactics.

b. General. Emphasize SEAD weapon capabilities and limitations, cockpit management, designation techniques, delivery modes and attack parameters. Aircraft should be configured with operable VTR/CVRS, ALQ-126B, ALR-67, TPOD, CATM-9X, KY-58, MIDS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (3 Events/3.3 Hours).

SSEAD-3501 1.0 365 R 1+ TOFT S (NS)

Goal. Practice employment of the Joint Standoff Weapon (JSOW) and Standoff Land Attack Missile-Expanded Response (SLAM-ER). Emphasize weapon capabilities and limitations, cockpit displays, and employment techniques.

Requirement. Plan mission on JMPS and conduct multiple ordnance deliveries. Minimum of three deliveries of each weapon required for completion.

Performance Standards

- Effectively mission plan for JSOW and SLAM-ER.
- Deliver JSOW IAW TACSOP tactics with a TOT +/- 15 secs.
- Execute proper procedures for marriage checks.
- Execute proper procedures for weapon programming and release.
- Execute proper procedure for weapon terminal guidance (SMAU).

SSEAD-3502 1.0 365 R 1+ TOFT S (NS)

Goal. Practice employment of the AGM-88 HARM. Emphasize weapon capabilities and limitations, cockpit displays, and employment techniques.

Requirement. Plan mission on JMPS. Employ the AGM-88 against a ground based emitter. Three PB shots, three TOO shots, a HARM designation, and a Manually Modified Entry (MME) required for completion.

Performance Standards

Effectively mission plan for HARM.
Deliver PB HARM IAW TACSOP tactics with a TOT +/- 15 secs.
Effectively employ HARM in TOO mode.

SEAD-3503 1.3 365 R 2+ FA-18A/C/D A (NS)

Goal. Practice airborne employment of the AGM-88 HARM. Emphasize mission planning, weapon capabilities and limitations, cockpit displays, and employment techniques.

Requirement. Plan mission on JMPS. Conduct two PB HARM shots with TOTs utilizing FA-18 TACSOP tactics. Conduct two TOO HARM shots utilizing FA-18 TACSOP tactics.

Performance Standards

Effectively mission plan for HARM.
Deliver PB HARM IAW TACSOP tactics with a TOT +/- 15 secs.
Effectively employ HARM in TOO mode.

Prerequisite. SSEAD-3502.

Ordnance. 1 CATM-88/AGM-88, 40 Chaff/20 Flare.

Range Requirements. MOA, TACTS, Hi Fi EW, ARM.

7. Air Interdiction (AI)

a. Purpose. To develop proficiency in conducting AI missions.

b. General. Emphasize mission planning, tactical decision making, mutual support and target acquisition/destruction. Ordnance types may be substituted based on the mission, threat, and tactics and training requirements. The commanding officer may authorize inert ordnance in lieu of live ordnance when necessary. Aircraft should be configured with operable CVRS, ALQ-126B, ALR-67, CATM-9X, TPOD, KY-58, CIT, MIDS, JHMCS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (5 Events/6.2 Hours).

SAI-3601 1.0 365 R 2+ TOFT S (NS)

Goal. Conduct a section AI mission against a target with integrated air defenses. Emphasize air-to-ground and air-to-air mission planning, tactical decision making, and target acquisition.

Requirement. Plan a strike route. Weaponeer a specific target using two GBU-31 (quantity release) and one GBU-10/12/16. With a minimum of 50 NM separation, the fighters will attack and destroy a specific target, target destruction required. Fighters will be aggressed both inbound and outbound. Adversaries will operate with a FEZ/MEZ mindset,

level 3 or 4, SAR-1/IR-3 missiles. IADs will be constructed at the discretion of the flight lead. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment. Three runs (ingress to a complete egress) are required for completion.

Performance Standards

Recognize and react appropriately to threats.
Adhere to planned air-to-air/air-to-ground timeline and target area tactics.
Deliver weapons on planned DPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.

Prerequisite. SAS-2305, NS-2405, SAA-2507.

AI-3602 1.3 180 R 2+ FA-18A/C/D vs. 2 Adversaries A

Goal. Conduct a section, day, low altitude, unguided ordnance AI mission against a target with integrated air defenses. Emphasize air-to-ground and air-to-air mission planning, tactical decision making, timeline awareness, mutual support, target acquisition and target destruction.

Requirement. Plan a strike route. Weaponeer a specific target using unguided ordnance. With a minimum of 50 NM separation, the fighters will attack and destroy a specific target, target destruction required. Fighters will be aggressed both inbound and outbound. Adversaries will operate with a FEZ/MEZ mindset, level 3 or 4, SAR-1/IR-3 missiles. IADs will be constructed at the discretion of the flight lead. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment.

Performance Standards

Recognize and react appropriately to threats.
Adhere to planned air-to-air/air-to-ground timeline and target area tactics.
Deliver weapons on planned DMPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.

Prerequisite. AS-2309, AA-2510, LAT-2603, SAI-3601.

Ordnance. 4 Mk-82/83/84, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. TGT, AA, EW, SST, TACTS, TGT-DISP, LSR.

External Syllabus Support. Two adversaries and one tanker (if AAR required).

AI-3603 1.3 180 R 4 FA-18A/C/D vs. 2+ Adversaries A

Goal. Conduct a division, day, high altitude, PGM AI mission against a target with integrated air defenses. Emphasize air-to-ground and air-to-air mission planning, tactical decision making, mutual support, timeline awareness, target acquisition and target destruction.

Requirement. Plan a strike route. Weaponeer a specific target using PGMs. With a minimum of 50 NM separation, the fighters will attack and destroy a specific target, target destruction required. Fighters will be aggressed both inbound and outbound. Adversaries will operate with a FEZ/MEZ mindset, level 3 or 4, SAR-1/IR-3 missiles. IADs will be constructed at the discretion of the flight lead. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment.

Performance Standards

Recognize and react appropriately to threats.

Adhere to planned air-to-air/air-to-ground timeline and target area tactics.

Deliver weapons on planned DPI.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Take valid shots.

Prerequisite. AS-2312, AS-2313, AA-2509, AA-2510, AI-3601.

Ordnance. 2 GBU-31/32/38 or 2 GBU-10/12/16, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, AA, EW, TACTS, TGT-DISP, LSR, JDAM.

External Syllabus Support. Two or more adversaries and one tanker (if AAR required).

AI-3604 1.3 180 R 4 FA-18A/C/D A NS

Goal. Conduct a division, night, high altitude, LGB AI mission against a target with integrated surface-to-air defenses. This flight will not be aggressed by adversaries IOT emphasize surface-to-air countertactics. Additionally, emphasize air-to-ground planning, tactical decision making, mutual support, target acquisition, and target destruction.

Requirement. Plan a strike route. Weaponeer a specific target using LGBs. With a minimum of 50 NM separation, the fighters will attack and destroy a specific target, target destruction required. IADs will be constructed at the discretion of the flight lead.

Performance Standards

Recognize and react appropriately to threats.

Adhere to planned air-to-air/air-to-ground timeline and target area tactics.

Deliver weapons on planned DPI.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.

Prerequisite. AS-2311, NS-2402, NS-2405, SAI-3601.

Ordnance. 2 GBU-10/12/16, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, AA, EW, TACTS, TGT-DISP, LSR.

External Syllabus Support. 1 tanker (if AAR required).

AI-3605 1.3 180 R 4 FA-18A/C/D vs. 2+ Adversaries A NS

Goal. Conduct a division, night, high altitude, JDAM AI mission against a target with integrated air defenses. Emphasize air-to-ground and air-to-air mission planning, tactical decision making, mutual support, timeline awareness, target acquisition, and target destruction.

Requirement. Plan a strike route. Weaponeer a specific target using JDAM. With a minimum of 50 NM separation, the fighters will attack and destroy a specific target, target destruction required. Fighters will be aggressed both inbound and outbound. Adversaries will operate with a FEZ/MEZ mindset, level 3 or 4, SAR-1/IR-3 missiles. IADs will be constructed at the discretion of the flight lead. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. PHID will be satisfied in ample time to allow BVR weapons employment.

Performance Standards

Recognize and react appropriately to threats.
Adhere to planned air-to-air/air-to-ground timeline and target area tactics.
Deliver weapons on planned DPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.

Prerequisite. NS-2402, AI-3603, AI-3604, ACPM 8300-8351.

Ordnance. 2 GBU-31/32/38 (live or inert), CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, AA, EW, TACTS, TGT-DISP, LSR, JDAM.

External Syllabus Support. Two or more adversaries and one tanker (if AAR required).

8. Active Air Defense (AAD)

a. Purpose. To gain and maintain proficiency in AAD missions.

b. General. Emphasize mission planning, mutual support, knowledge of air-to-air weapons and tactics, timeline awareness, sensor usage, standardized communication, weapons employment, AIC integration, short range radar mechanics, and targeting. Aircraft should be configured with operable

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CVRS, ALQ-126B, ALR-67, CATM-9X, TPOD, KY-58, CIT, MIDS, JHMCS, and chaff/flare. AIC and TACTS range should be utilized to the maximum extent possible. If co-located with AIC controllers, a face-to-face brief and debrief should be conducted for all engagements.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (4 Events, 4.9 Hours).

SAAD-3701 1.0 365 R 2+ TOFT S

Goal. Conduct a DCA (Point Defense) mission against an unknown number of SAR-1 adversaries with EA. Emphasize commit criteria, reset criteria, desired engagement zone, targeting/sorting, timeline awareness, valid weapons employment, and standardized communications.

Requirement. Two 20 min vulnerability periods required for completion. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP. On one run, PHID criteria will not be satisfied until after planned weapons employment range.

Performance Standards

Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. SAA-2508.

AAD-3702 1.3 180 R 2+ FA-18A/C/D vs. 2+ Adversaries A

Goal. Conduct a day section/division DCA (Area Defense) mission against an unknown number of adversaries with SAR-1/IR-3 missiles. Emphasize commit criteria, reset criteria, desired engagement zone, targeting/sorting, timeline awareness, valid weapons employment, and standardized communications.

Requirement. One defined vulnerability period required for completion. Adversaries will be level 3 or 4 IAW the TACSOP. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. On one run, PHID criteria will not be satisfied until after planned weapons employment range.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AA-2510, SAAD-3701.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more adversaries.

AAD-3703 1.3 180 R 4 FA-18A/C vs. 2+ Adversaries A

Goal. Conduct a day division DCA (Area Defense) against an unknown number of adversaries with SAR-2 or AR-1/IR-3 missiles with EA. Emphasize commit criteria, reset criteria, desired engagement zone, targeting/sorting, timeline awareness, valid weapons employment, and standardized communications.

Requirement. One defined vulnerability period required for completion. Adversaries will be level 3 or 4 IAW the TACSOP and employ EA. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. On one run, PHID criteria will not be satisfied until after planned weapons employment range.

Performance Standards

Maintain mutual support.

Execute proper radar mechanics.

Target as directed.

Recognize threat tactics.

Take valid shots.

Timeline awareness.

Tactical decision making IAW mission objectives.

Prerequisite. AAD-3702.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more adversaries.

AAD-3704 1.3 180(A/C)/365(D) R 4 FA-18A/C/D vs. 2+ Adv A NS

Goal. Conduct a night division DCA (Area Defense) against an unknown number of adversaries with SAR-2 or AR-1/IR-3 missiles with EA. Emphasize commit criteria, reset criteria, desired engagement zone, targeting/sorting, valid weapons employment, and standardized communications.

Requirement. One defined vulnerability period required for completion. Adversaries present a level 3 or 4 IAW the TACSOP and should be employ EA. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. On one run, PHID criteria will not be satisfied until after planned weapons employment range.

Performance Standards

Maintain mutual support.

Execute proper radar mechanics.

Target as directed.

Recognize threat tactics.

Take valid shots.

Timeline awareness.

Tactical decision making IAW mission objectives.

Prerequisite. NS-2402, NS-2405, AAD-3703(AAD-3702 FA-18D).

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more adversaries.

9. Expeditionary Shore-Based Operations (EXP)

a. Purpose. Maintain proficiency in operations at airfields away from home field and/or in theater.

b. General. Flight with NVDs is authorized if current and proficient in the Night Systems Core Skill.

c. Flight and Simulator Event Training.

EXP-3800 0.0 365 R 1 FA-18A/C/D A (NS)

Goal. Review expeditionary shore-based operations.

Requirement. Review procedures specific to CONUS airfields other than local fields. Review special procedures for airfields outside CONUS including any unique flight filing requirements:

Performance Standard. Successfully conduct take-off and landing operations. This flight code shall be logged in conjunction with any other training flight when executed outside of the home field boundaries.

Prerequisite. FAM-2102.

10. Forward Air Controller (Airborne) FAC(A) FA-18D

a. Purpose. To develop proficiency in FAC(A).

b. General

(1) The JCAS AP MOA 2004-02 with update of 21 July 2008 (referred to as the JFAC(A) MOA) provides the minimum standard for certification and qualification as a FAC(A). Meeting the T&R syllabus requirements for FAC(A) will meet or exceed the JFAC(A) MOA requirements for training and controls (12 controls; 8 of these 12 controls must be Type 1, 8 controls must be fixed wing, 4 controls must have CAS assets expend live or training ordnance, and at least 1 must be at night). The JFAC(A) MOA can be found on the SIPRNET at <http://jfaca.mawtsl.usmc.smil.mil>. Aircrew conducting FAC(A) operations shall comply with the policies contained in the most recent version of the JFAC(A) MOA.

(2) Prior to beginning this stage, FA-18D pilots shall be designated as a section leader by the commanding officer and be AR proficient. WSOs shall be AS, CAS, and AR proficient with the AS, AR/SCAR, and CAS events of the section leader work-up syllabus completed (section leader SL-6301 through SL-6314 complete).

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(3) Nonqualified aircrew will fly FAC(A)-3803 through FAC(A)-3811 with a MAWTS-1 certified FA-18D FAC(A)I designated by the commanding officer. The FAC(A)I may be in the FAC(A) or escort aircraft. The FAC(A)I may simulate the JTAC if one is not available. The SFAC(A)-3801 and 3802 will be completed with a FAC(A)I at the simulator console.

(4) Upon successful completion of FAC(A)-3801 through FAC(A)-3811 and compliance with JFAC(A) MOA certification requirements, the commanding officer may issue a T&R FAC(A) qualification as well as a JFAC(A) MOA FAC(A) certification.

(5) A non-qualified FAC(A) aircrew must have a FAC(A)I in the section and may not control CAS aircraft delivering actual ordnance closer than the most conservative of minimum safe distance, 1000 meters, or range regulations. A FAC(A) qualified aircrew (pilot and WSO for FA-18D) may not employ CAS aircraft delivering actual ordnance closer than the most conservative of minimum safe distance or range regulations.

(6) In an FA-18D aircraft, separate work-up sorties are preferred for each crew member. If both FA-18D aircrew are undergoing FAC(A) qualification concurrently, they should split the tactical briefing and debriefing responsibilities for each flight.

(7) FAC(A)-3809 through FAC(A)-3811 are exercises in integrating the fire support assets previously controlled separately in the FAC(A) syllabus. The intent is to expose prospective FAC(A) aircrew to the unique challenges posed by each asset when integrated with FW CAS. Each sortie should concentrate on the integration procedures for a different asset, culminating in a final FAC(A)-3811 checkride using multiple fire support assets. If FAC(A)-3809 integrates IDF assets, FAC(A)-3810 should integrate RW/UAS CAS and vice versa. If RW/UAS assets are integrated, emphasis should be on combined or sectored (sequential or simultaneous) attacks. If IDF is integrated, emphasis should be on altitude or lateral deconfliction of fires. At a minimum, IDF must be integrated into one of the sorties in the FAC(A)-3809 through FAC(A)-3811, with FAC(A)-3809 being the preferred sortie.

(8) Failure to meet JFAC(A) MOA currency requirements or loss of T&R proficiency (delinquent refly factor) for all associated FAC(A) qualification events (per paragraph 500.1.b) constitutes loss of the FAC(A) qualification.

(9) Aircrew who have lost the FAC(A) qualification due to failure to meet JFAC(A) MOA currency requirements shall regain the FAC(A) qualification by successfully completing events as delineated in the appropriate T&R syllabus under the supervision of a current and qualified FAC(A) or FAC(A)I. At a minimum, such aircrew must complete the number and category (appropriate night, control type, ordnance, etc.) of controls the individual failed to accomplish during the appropriate six-month currency period (6 controls; 4 of these 6 controls must be Type 1, 2 controls must be fixed wing Type 1, 1 control must have CAS assets expend live or training ordnance, and at least 1 must be at night).

(10) Aircrew who have lost the FAC(A) qualification due to exceeding the refly interval in all associated qualification events, or who have been FAC(A) unqualified for 18 consecutive months per the JFAC(A) MOA, shall regain qualification by completing the refresher FAC(A) syllabus under the supervision of a FAC(A)I and conduct a minimum of 6 controls (4 of these 6 controls must be Type 1, 2 controls must be fixed wing Type 1, 1 control must

have CAS assets expend live or training ordnance, and at least 1 must be at night).

(11) The intent of the T&R refly intervals is to meet the JFAC(A) MOA minimum requirements for currency controls:

JFAC(A) MOA Requirements				
Interval	Total Controls	Type 1	FW Type 1	Ordnance/Night
180 days	6	4	2	1/1

(12) Escort aircraft that are not flown by a FAC(A)I conducting instruction during a FAC(A) workup will log a FAC(A)-3812 (FAC(A) Escort) code. Escort aircraft that are flown by a FAC(A)I conducting instruction during a FAC(A)/FAC(A)I workup will log the appropriate FAC(A) code and log the FAC(A) controls. Escort aircraft will not fulfill the external support requirement of a FW CAS element for any FAC(A) qualification workup sortie.

(13) Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD (Litening/ATFLIR), LST, KY-58, DCS/VMF, MIDS, JHMCS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (12 Events, 15 Hours).

SFAC(A)-3801 1.0 * 2 TOFT S

Goal. Type 1/2/3 FAC(A) control procedures.

Requirement. Conduct Type 1/2/3 FAC(A) controls. Emphasize C³ integration, target area flow/timing, sensor management, switchology, and crew resource management. Two Type 1, two Type 2, and two Type 3 controls required for completion. FAC(A)I at the simulator console must simulate C3 agencies, TACP, and CAS aircraft.

Performance Standards

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for CAS attacks.

Position FAC(A) aircraft appropriately to provide marking and control while executing FAC(A) profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. CAS-3104, SCAR-3302.

SFAC(A)-3802 1.0 * 2 TOFT S

Goal. Adverse weather, high-threat (restrictive) FAC(A) control procedures.

Requirement. Conduct Type 1 high-threat FAC(A) controls. Emphasize C3 integration, target area flow/integration/timing, sensor management, switchology, and crew resource management. Four Type 1 controls required for completion. SEAD CFF mission must be given for each TOT. FAC(A)I at the simulator

console must simulate C³ agencies, TACP, indirect fire assets, and CAS aircraft. Simulated weather is overcast at 8K'.

Performance Standards

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for IDF and CAS attacks.

Employ proper communications format with the firing unit.

Position FAC(A) aircraft appropriately to provide marking and control while executing FAC(A) profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. SFAC(A)-3801.

FAC(A)-3803 1.3 90 R 1 FA-18D and 1 Escort A (NS)

Goal. Introduce FAC(A) FW Type 1 and 2 control procedures with laser/PGMs in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft using level and roll-in delivery profiles. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate laser mark on target and guide one LGW to impact. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Provide laser mark using proper J-LASER terminology and successfully guides LGW to impact, if required.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2313, SFAC(A)-3802.

Ordnance. 2 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements with live, inert, or captive PGMs and a JTAC. LSTs are desired.

FAC(A)-3804 1.3 * 1 FA-18D and 1 Escort A

Goal: Introduce FAC(A) FW Type 1/3 control procedures with GP ordnance in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control three Type 1 and one Type 3 attacks by FW aircraft using low threat tactics and GP ordnance. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate marking rounds on target, with a minimum of one mark via aircraft ordnance. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft and the ability to provide talk-ons. Provide BHA. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Provide accurate verbal description during talk-on attacks. When required, mark the target with a CEP less than 300 meters.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendlies, systems, and environment.
Execute FAC(A) Type 1/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2309, SFAC(A)-3802.

Ordnance. Two pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements with live or inert GP ordnance and a JTAC.

FAC(A)-3805 1.3 * 1 FA-18D and 1 Escort A (NS)

Goal. Introduce FAC(A) RW Type 1, 2, and 3 control procedures in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control one Type 1, two Type 2, and two Type 3 attacks by attack helicopters. Use appropriate RW CAS briefing and control procedures. Perform authentication procedures. Deliver marking rounds/talk-on (rockets/guns/TOW) or provide laser designation (Hellfire). If conducted at night, use appropriate tactics for target illumination if necessary. For Type 1 (rockets/guns) controls, emphasis should be on providing corrections, ensuring compliance with limit-of-advance and providing threat lookout for RW assets in the target area. For Type 2 (TOW) controls, emphasis should be on providing a target sort and ensuring no friendlies in the SDZ. Two TOW/Hellfire controls are required for completion. One of the two controls must have the FAC(A) lasing for Hellfire employment. Simulated TOW and captive Hellfire are acceptable.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Provide accurate verbal description during talk-on attacks. If required, mark the target with a CEP less than 300 meters.
Provide laser mark using proper J-LASER terminology.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendlies, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2313, SFAC(A)-3802.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two RW CAS elements with live/captive Hellfire and a JTAC.

FAC(A)-3806 1.3 * 1 FA-18D and 1 Escort A (NS)

Goal. Introduce FAC(A) Type 1/2/3 control procedures in an urban environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets in an urban environment, generating target coordinates with aircraft systems. Plot targets on Gridded Reference Graphic (GRG) and prepare target briefs. Control two Type 1 and two Type 2/3 attacks by aircraft. Use appropriate CAS briefing and control procedures. Deliver or coordinate marks as required. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft, and the ability to provide GRG-based talk-ons. Integrate fires with JTAC via datalink from TPOD to remote station, if so equipped. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate, 9-line and BHA generation.
Provide accurate verbal description during GRG talk-on attacks.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.
Prerequisite. CAS-3104, SFAC(A)-3802.

Ordnance. 1 AGM-65E (captive or live), 1 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP, URBN WPNS.

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External Syllabus Support. One or more FW or RW CAS elements, and a JTAC. JTAC should have capability to receive TPOD video via datalink.

FAC(A)-3807 1.3 * 1 FA-18D and 1 Escort A (NS)

Goal. Introduce mortar/artillery airspot.

Requirement. Perform visual/sensor reconnaissance on three tactical targets, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare a call-for-fire brief. Emphasize accurate call-for-fire communications and adjustment procedures. One adjust fire (laser grid), one immediate suppression, one SEAD mission, and one high threat SEAD mission required for completion. Emphasis on high-threat airspot is FAC(A) positioning to provide redundant mark and accurate corrections for IDF with simulated weather of overcast at 8K' MSL. Both SEAD missions must include marking and suppression of targets.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Employ proper communications format with the firing unit.
Provide timely and accurate corrections to the firing unit.
Complete an immediate suppression CFF within 60 seconds of receiving the mission from the JTAC.

Prerequisite. SFAC(A)-3802.

Ordnance. 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP.

External Syllabus Support. IDF asset (mortars or artillery) and a JTAC or FO. IDF asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.

FAC(A)-3808 1.3 180 R 1 FA-18D and 1 Escort A NS

Goal. Introduce FAC(A) Night Systems procedures in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate marking rounds or IR/laser mark on target. At least one Type 1 control must use an IR pointer, if so equipped. At least one Type 1 control must be supported by air-delivered covert illumination (LUU-19). Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with

simulated JDAM/LGB deliveries. If LUU-19s are not available, LUU-2s/illum rockets may be substituted.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Provide IR/laser mark using proper terminology.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2307, NS-2402, SFAC(A)-3803.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 4 LUU-19/LUU-2 or 1 pod 2.75" Illum rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements and a JTAC.

FAC(A)-3809 1.3 365 R 1 FA-18D and 1 Escort A

Goal. Introduce FAC(A) two-element integration procedures in a day, medium (restrictive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control four Type 1 attacks by FW aircraft utilizing medium threat tactics. A minimum of two CAS profiles must be pop-up attacks. Emphasis during these pop-up attacks is on FAC(A) positioning for redundant marking and Type 1 control. Deliver or coordinate marks on target. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Ensure proper coordination and approval for IDF, rotary wing, and fixed wing attacks.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A)-3803-3807.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. One FW CAS element, one additional fire support asset (RW CAS/UAS CAS/IDF) and a JTAC. If IDF is to be used 10 HE rds, 4 WP rds for marking or suppression required.

FAC(A)-3810 1.3 365 R 1 FA-18D and 1 Escort A NS

Goal. Introduce FAC(A) two-element integration procedures in a night, medium (restrictive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft utilizing medium threat tactics. Deliver or coordinate marks on target. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for IDF, rotary wing, and fixed wing attacks.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. NS-2402, FAC(A)-3803, FAC(A)-3808, FAC(A)-3809.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. One FW CAS element, one additional fire support asset (RW CAS/UAS CAS/IDF), and a JTAC. If IDF is to be used 10 HE rds, 4 WP rds for marking or suppression required.

FAC(A)-3811 1.3 365 R 1 FA-18D and 1 Escort A (NS)

Goal. Practice FAC(A) multi-element and supporting arms integration.

Requirement. Perform visual/sensor reconnaissance, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Plan and execute at least one integrated attack utilizing three or more elements. For FW/RW/UAS integration, emphasis is on conducting a sectored or combined (simultaneous or sequential) attack. For CAS/IDF integration, time, altitude, or lateral deconfliction can be used. This evaluation sortie should be flown in a MAGTF-level exercise if possible.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Ensure proper coordination and approval for IDF and CAS attacks.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A)-3810.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. Minimum of 3 fire support assets (FW CAS/RW CAS/UAS CAS/IDF) and a JTAC. IDF asset requires 10 HE rds, 4 WP rds.

ESC-3812 1.3 * 1 FA-18D A (NS)

Goal. Introduce escort procedures for FAC(A) wingman.

Requirement. Perform wingman duties during a FAC(A) mission. Provide mutual support, threat lookout, and duties assigned by the FAC(A) aircraft. Emphasis on communication relay and backup marks.

Performance Standards

Maintain mutual support and threat lookout throughout mission. Maintain situational awareness to rapidly assist FAC(A) with backup marks and alternate radio communications.

Prerequisite. AS-2307, CAS-3103.

Ordnance. 1 AGM-65E (captive or live), 1 GBU-12/16 or 2 pods 2.75"/5.0" rockets, 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. Two or more CAS aircraft. Indirect fire and C³ agencies preferred.

11. Tactical Air Coordinator (Airborne) TAC(A)

a. Purpose. To develop proficiency in TAC(A).

b. General

(1) This phase of training is designed for experienced aircrew.

(2) Prior to commencing the TAC(A) syllabus, aircrew must be FAC(A) qualified. Non-qualified aircrew will fly TAC(A)-3901 and TAC(A)-3902 with a MAWTS-1 certified TAC(A)I designated by the commanding officer. The TAC(A)I may be in the escort aircraft.

(3) The commanding officer may designate aircrew as TAC(A) qualified upon successful completion of this phase of training through TAC(A)-3902.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

TAC(A)-3901 1.3 545 R 1+ FA-18D A (NS)

Goal. Introduce TAC(A) procedures.

Requirement. Integrate CAS with a single terminal controller [JTAC/FAC(A)]. Manage airspace and multiple ingressing/egressing aircraft. Conduct airborne relay of target briefs. Minimum of two CAS elements required for completion.

Performance Standards

Accurately copy immediate JTAR.

Coordinate timely CAS in response to immediate request.

Pass CAS aircraft BHA via the C³ system.

Prerequisite. FAC(A)-3811, QUAL-6207, FAC(A) qualified.

Range Requirements. MOA.

External Syllabus Support. Two CAS elements and one terminal controller [JTAC/FAC(A)].

TAC(A)-3902 1.3 * 1+ FA-18D A (NS)

Goal. Practice TAC(A) procedures with multiple terminal controllers.

Requirement. Perform coordination of attack aircraft and multiple terminal controllers. Receive attack briefings from the JTAC/FAC(A) and assign appropriate CAS aircraft. Coordinate target mark and control with the JTAC/FAC(A). Manage assigned airspace and provide command and control system with essential elements of information. Perform authentication procedures (as required).

Performance Standards

Accurately copy immediate JTAR.

Coordinate timely CAS in response to immediate request.

Pass CAS aircraft BHA via the C3 system.

Prerequisite. TAC(A)-3901.

Range Requirements. MOA.

External Syllabus Support. JTAC/FAC(A) and two or more CAS elements.

212. CORE PLUS SKILL PHASE

1. General. This phase contains Core Plus Skills training a community may accomplish. Although Core Plus Skills training events may provide valuable training opportunities, they are not measured as part of unit capability reporting. Skills contained in this phase are associated with low probability of execution and/or theater/basing specific requirements. This phase of training allows additional unit training flexibility.

2. Field Expeditionary/Carrier Landing Qualification (FCLP/CQ)

a. Purpose. To practice for carrier operations or qualify for SELF operations.

b. General. The FCLP simulator is a prerequisite for the corresponding training flight when qualification is aboard a CV. Each FCLP flight is a training flight for CV qualification. Completion of FCLP-4102 completes the SELF qualification syllabus. Completion of CQ-4104 completes the CV qualification syllabus.

c. Ground Training. IAW LSO NATOPS.

d. Flight and Simulator Event Training. (5 Events, 5.0 Hours).

SCQ-4101 1.0 * R 1+ TOFT S

Goal. Conduct simulated carrier landings using Case I and Case III procedures. Emphasize pattern procedures, landing technique, deck procedures, and emergency procedures.

Requirement. Perform Case I and two Case III recoveries to multiple carrier landings. Four passes required for completion. Simulator must be monitored by an LSO.

Prerequisite. FAM-2102.

External Syllabus Support. LSO.

FCLP-4102 1.0 365 R 1+ FA-18A/C/D A

Goal. Practice day FCLP procedures or qualify for day expeditionary landing operations.

Requirement. Conduct FCLPs under the control of an LSO. Six touch and go's required for completion. For EQ, perform four touch and go's, an arrested landing, and a launch from an expeditionary airfield.

Performance Standards

Fly five passes IAW LSO NATOPS criteria.

Respond quickly and safely to all communications and comm out signals from LSO if required.

Prerequisite. FAM-2102, SCQ-4101.

Range Requirement. SELF or airfield with FCLP pattern, carrier box, and fresnel lens.

External Syllabus Support. LSO.

FCLP-4103 1.0 365 R 1+ FA-18A/C/D A N

Goal. Practice night FCLP procedures or qualify for night expeditionary landing operations.

Requirement. Conduct FCLPs under the control of an LSO. Six touch and go's required for completion. For EQ, perform four touch and go's, an arrested landing, and a launch from an expeditionary airfield.

Performance Standards

Fly five passes IAW LSO NATOPS Criteria.
Respond quickly and safely to all communications and comm out signals from LSO if required.

Prerequisite. FAM-2102, FCLP-4102.

Range Requirement. SELF or airfield with FCLP pattern, carrier box, and fresnel lens. For CQ, CV-compatible ACLS or ICLS.

External Syllabus Support. LSO.

CQ-4104 1.0 365 R 1+ FA-18A/C/D A

Goal. Qualify for day carrier landing operations.

Requirement. IAW LSO NATOPS.

Performance Standards
IAW LSO NATOPS.

Prerequisite. FAM-2102, FCLP-4102.

External Syllabus Support. LSO.

CQ-4105 1.0 365 R 1+ FA-18A/C/D A N

Goal. Qualify for night carrier landing operations.

Requirement. IAW LSO NATOPS.

Performance Standards
IAW LSO NATOPS.

Prerequisite. FAM-2102, FCLP-4103, CQ-4104.

External Syllabus Support. LSO.

3. Multi-sensor Imagery Reconnaissance (MIR)

a. Purpose. Develop proficiency at multi-sensor imagery reconnaissance with a targeting sensor (TPOD) or the Advanced Tactical Airborne Reconnaissance System (ATARS).

b. General

(1) Emphasize integrated mission planning, search profiles, sensor employment, and information flow through the C3 system. Both pre-planned collection and targets of opportunity techniques will be executed. Aircraft should also be configured with operable CVRS, ALQ-126B, ALR-67, KY-58, CATM-9X, and chaff/flare.

(2) ATARS aircraft must be configured with two operable Digital Tape Recorders, ATARS sensors, and APG-73. MIR-4205 also requires an AN/ARQ-56 Data Link Pod and coordination with a Marine Tactical Exploitation Group (TEG) or similarly equipped ground imagery exploitation system.

c. Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. . (5 Events, 6.2 hours).

SMIR-4201 1.0 * 2 TOFT S (NS)

Goal. Introduce tactics, techniques, and procedures associated with Non-Traditional Intelligence, Surveillance and Reconnaissance (NTISR) missions with an advanced targeting sensor (Gen 3 or later TPOD). Emphasize mission planning, target acquisition and employment of a TPOD in a permissive environment.

Requirement. Conduct medium altitude NTISR within a notional killbox as a section to detect both pre-planned targets and targets of opportunity within a permissive environment.

Performance Standards

Conduct NTISR of named areas of interest and detect targets. Properly identify targets within the area of interest. Effectively communicate position and description of target. Effectively manage sensor search to minimize time to detect.

Prerequisite. SAS-2301, SAS-2302, SAR-3201.

MIR-4202 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Introduce tactics, techniques, and procedures associated with Non-Traditional Intelligence, Surveillance and Reconnaissance (NTISR) missions with an advanced targeting sensor (Gen 3 or later TPOD). Emphasize mission planning, target acquisition, and employment of a TPOD in a permissive environment.

Requirement. Conduct medium altitude NTISR as a section to detect both pre-planned targets and targets of opportunity within an permissive urban environment.

Performance Standards

Conduct NTISR of named areas of interest and detect targets. Properly identify targets within the area of interest. Effectively communicate position and description of target. Effectively manage sensor search to minimize time to detect.

Prerequisite. AR-3203, SMIR-4201.

Range Requirements. MOA, URBN TRG.

MIR-4203 1.3 365 1+ FA-18D A

Goal. Introduce Electro-optical (EO) and Infrared (IR) imagery collection using the Advanced Tactical Airborne Reconnaissance System (ATARS). Emphasize mission planning, target acquisition, and employment of EO and IR sensors while executing a day AR mission.

Requirement. Conduct high and low altitude AR to detect and collect EO/IR imagery of both pre-planned targets and targets of opportunity. A minimum of one vertical, one high oblique,

and one low oblique EO image will be collected. Complementary IR imagery will be collected simultaneously when applicable.

Performance Standards

Conduct AR of named areas of interest and detect targets.
Collect preplanned imagery using all EO and IR sensors.
Collect imagery of targets of opportunity with all EO and IR sensors.

Prerequisite. SAS-2302.

Ordinance. 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, EXP.

MIR-4204 1.3 365 R 1+ FA-18D A (NS)

Goal. Introduce Synthetic Aperture Radar (SAR) imagery collection while employing ATARS. Emphasize mission planning, target acquisition, and employment of both SAR and the Infrared Line Scanner (IRLS) in a night AR mission.

Requirement. Conduct night AR as a section to locate targets and collect both SAR and IR imagery of pre-planned targets and targets of opportunity. A minimum of two SAR strip maps and two SAR spot maps are required. Complementary IR imagery will be collected of the same targets.

Performance Standards

Conduct AR of named areas of interest and detect targets.
Collect pre-planned imagery using both SAR and IRLS.
Collect imagery of targets of opportunity using both SAR and IRLS.

Prerequisite. MIR-4203.

Ordinance. 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, EXP.

MIR-4205 1.3 * 1+ FA-18D A (NS)

Goal. Introduce employment of the AN/ARQ-56 ATARS Datalink Pod. Emphasize mission planning, sensor employment, and datalink of time-critical imagery while executing a medium threat AI mission.

Requirement. Execute a medium threat AI mission, collect pre-planned targets and targets of opportunity, and datalink time-critical imagery to the TEG.

Performance Standards

Collect preplanned imagery en route using EO, IR, and SAR sensors.
Collect pre-strike and post-strike imagery of assigned DMPIs.
Conduct imagery review inflight and datalink time-sensitive imagery to the TEG.

Prerequisite. MIR-4204.

Ordnance. 40 Chaff/20 Flare.

Range Requirements. RSTD, TGT, EXP, LSR.

External Syllabus Support. TEG or similarly equipped ground imagery exploitation system required.

4. Aerial Escort (AESC)

a. Purpose. To develop proficiency in conducting convoy and assault support escort missions.

b. General. Emphasize mission planning, tactical decision making, element positioning, threat acquisition, neutralization or destruction. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD, KY-58, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

AESC-4301 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Conduct convoy escort. Emphasize mission planning, target precedence, search pattern, attack parameters, delivery modes, designation techniques, and information flow through the C³ system.

Requirement. Conduct convoy escort along a route to locate and destroy targets of opportunity in a low or medium threat environment.

Performance Standards

Locate and attack targets.

Inform convoy leader of threats.

Maintain mutual support with convoy.

Effectively communicate status of convoy to C³ agencies.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. AR-3203.

Ordnance. CATM-9X, 4 BDU-45/MK-83 inert, 40 Chaff/20 Flare.

Range Requirements. RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT.

External Syllabus Support. One vehicle convoy. Two rotary wing escort aircraft desired.

AESC-4302 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Conduct assault support escort. Emphasize mission planning, target precedence, search pattern, attack parameters, delivery modes, designation techniques, and information flow through the C³ system.

Requirement. Conduct assault support along a route to locate and destroy targets of opportunity in a low or medium threat environment.

Performance Standards

Locate and attack targets.
Inform assault support flight of threats.
Maintain mutual support with assault support package.
Effectively communicate status of assault support package to C³ agencies.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Prerequisite. AR-3203.

Ordnance. CATM-9X, 4 BDU-45/MK-83 inert, 40 Chaff/20 Flare.

Range Requirements. RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT.

External Syllabus Support. One Helicopter/Assault element.

5. Attack Enemy Maritime Targets (AMT)

a. Purpose. To conduct sea control missions.

b. General. These sorties are designed to be flown by a squadron as part of their training program in preparation for deployment as part of a CVW/MAW.

c. Ground/Academic Training. Refer to NSAWC and applicable Strike-Fighter Wing Weapons School courses.

d. Flight and Simulator Event Training. (4 Events, 4.6 Hours).

SAMT-4401 1.0 * 1+ TOFT S (NS)

Goal. Conduct simulated mine-laying operations. Emphasize mine line planning, proper stores management, switchology, and mine placement.

Requirement. Perform a minimum of three runs using flight director(FD) mode and one run using AUTO.

Performance Standards

Mine placement IAW mission planning.
Mine delivery IAW specified profile.
Proper use of Flight Director mode.

SAMT-4402 1.0 365 R 2 TOFT S (NS)

Goal. Practice employment of SLAM-ER/Harpoon munitions. Emphasize weapons capabilities and limitations, mission planning factors, stores management and cockpit displays, and employment techniques.

Requirement. Plan and conduct multiple SLAM-ER and Harpoon deliveries. A minimum of four SLAM-ER and two Harpoon deliveries are required for completion. Each of the SLAM-ER deliveries will be from launch through datalink and terminal guidance.

Performance Standards

Adhere to USMC FA-18 ADMIN SOP and TACSOP.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Execute proper procedures for weapon programming and release.

Execute proper procedures for weapon terminal guidance.

AMT-4403 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Conduct a Sea Surface Control (SSC) mission in support of the Anti-Surface Warfare Commander's objectives. Emphasize target acquisition, identification, command and control coordination, and weapons employment, if required.

Requirement. Conduct SSC in the assigned sector to locate, classify, identify, and engage surface contacts.

Performance Standards

Locate assigned targets using all available sensors.

Classify and identify surface contacts based on briefing and mission planning.

Obtain mission recorder data and/or target photographs of assigned targets.

Engage surface contacts with appropriate weapons.

Use clear, concise, correct communication with command and control agencies to maintain information flow.

Prerequisite. AR-3203.

Range Requirement. MOA.

External Syllabus Support Required. Controlling naval surface platform.

AMT-4404 1.3 365 R 2 FA-18A/C/D A (NS)

Goal. Conduct a section or division War-at-Sea Exercise (WASEX) strike mission. Emphasize mission planning, target acquisition, tactical decision-making, mutual support, threat reaction, and target destruction.

Requirement. Attack and destroy hostile naval forces. Select appropriate weapons for assigned target/target sets. Execute ingress, ordnance delivery, and egress tactics consistent with the threat.

Performance Standards

Locate assigned targets using all available sensors.

Classify and identify surface contacts based on briefing and mission planning.

Maintain pre-briefed formation and mutual support.

Recognize and reacts appropriately to threats.

Engage surface contacts with appropriate weapons.

Use clear, concise, correct communication with command and control agencies to maintain information flow.

Prerequisite. AI-3604.

Range Requirements. MOA.

External Syllabus Support Required. Controlling naval surface platform.

6. Active Air Defense (AAD)

a. Purpose. To utilize Core Skills in employing the FA-18 in Active Air Defense missions.

b. General. Emphasize mission planning, mutual support, knowledge of air-to-air weapons and tactics, sensor usage, standardized communication, weapons employment, AIC integration, short range radar mechanics, and targeting.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

AAD-4501 1.3 365 R 2 FA-18A/C/D vs. 1+ RW/Prop A (NS)

Goal. Introduce aircrew to helicopter/prop aircraft attack. Emphasize optimum weapons employment profiles.

Requirement. Conduct visual attacks against helicopters/prop aircraft using appropriate captive air-to-air and simulated air-to-ground ordnance. One attack with a radar missile, one attack with the CATM-9X, one attack with the air-to-air gun, one attack with the air-to-ground gun, and one attack with GP bomb required for completion.

Performance Standards

Maintain offensive position on adversary aircraft.
Valid air-to-air and air-to-ground weapons employment.

Prerequisite. AAD-3702.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

External Syllabus Support. One or more helicopters/prop aircraft.

AAD-4502 1.3 180 R 4 FA-18D vs. 2+ (DISS) Adversaries A

Goal. Conduct a day division DCA (Area Defense) against an unknown number of adversaries with SAR-2 or AR-1/IR-3 missiles with EA. Emphasize commit criteria, reset criteria, desired engagement zone, targeting/sorting, timeline awareness, valid weapons employment, and standardized communications.

Requirement. One defined vulnerability period required for completion. Adversaries will be level 3 or 4 IAW the TACSOP and employ EA. Fighter weapons control status is tight with PHID criteria set by flight lead according to theater of operation. One run, PHID criteria will not be satisfied until after planned weapons employment range.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.

Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AAD-3702.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more (dissimilar) adversaries.

7. Large Force Exercise (LFE)

a. Purpose. To conduct advanced LFE missions.

b. General. Emphasize mission planning, large force integration both ground and airborne, administrative and tactical decision making, and mission accomplishment. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TACTS/TCTS pod, TPOD, KY-58, and chaff/flare. Upon the completion of the LFE log the LFE T&R code and the appropriate 3000 phase T&R code.

c. Ground/Academic Training. None.

d. Flight and Simulator Event Training. (2 Events, 2.6 Hours).

LFE-4601 1.3 365 R 6+ FA-18A/C/D vs. 4+ Adversaries A

Goal. Participate in a day LFE. Emphasize mission planning, integration, decision making and mission accomplishment.

Requirement. Participate in the planning and execution of a day LFE AI, OCA or DCA mission with a minimum of 10 aircraft.

Performance Standards

Effectively integrate into the LFE package.

Prerequisite. 2000 phase complete.

Ordnance. As required.

Range Requirements. AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP.

External Syllabus Support. One tanker (if AAR required), four or more adversaries.

LFE-4602 1.3 365 R 6+ FA-18A/C/D vs. 4+ Adversaries A NS

Goal. Participate in a night LFE. Emphasize mission planning, integration, decision making and mission accomplishment.

Requirement. Participate in the planning and execution of a night LFE AI, OCA or DCA mission with a minimum of 10 aircraft.

Performance Standards
Effectively integrates into the LFE package.

Prerequisite. 2000 phase complete.

Ordnance. As required.

Range Requirements. AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP.

External Syllabus Support. One tanker (if AAR required), four or more adversaries.

8. Night Systems (Low) [NS(Low)]

a. Purpose. To develop proficiency using Night Vision Devices (NVDs) in the low altitude environment.

b. General

(1) A MAWTS-1 certified NSI(Low) pilot flight lead is required to fly with non-NS(Low) qualified aircrew for NS(Low)-4701 through NS(Low)-4703 in FA-18C/D aircraft.

(2) At the discretion of the commanding officer, NS(Low) qualified aircrew may fly any night or night optional event in the T&R with the aid of NVDs. NS(Low) qualified aircrew may fly to a minimum altitude of 1K' AGL in LLL conditions (lux less than 0.0022) and down to 300' AGL in HLL conditions (lux greater than 0.0022).

(3) After successful completion of NS(Low)-4703, the aircrew is eligible to be designated NS(Low) qualified by the commanding officer.

(4) Aircrew shall be NS-2405 complete and LAT qualified prior to NS(Low) training. Consult T&R Program Manual for LAT and NS training policy.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (3 Events, 3.9 Hours).

NS(Low)-4701 1.3 * 2 FA-18C/D A NS

Goal. Practice low altitude ingress, target acquisition and target attacks at night in the LAT environment.

Requirement. Evaluated by NSI(Low). Conduct a section low level and section attacks. One low level and four section attacks on a scored raked range required for completion.

Performance Standards

Know and understand visual illusions associated with NVD usage.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters.

Prerequisite. AS-2309, NS-2402, NS-2405, LAT-2602, LAT-2603.

Ordnance. 6 MK-76, 40 Chaff/20 Flare.

Range Requirements. MTR, RSTD, RKD RNG, WISS, EXP.

NS(Low)-4702 1.3 * 2 FA-18C/D A NS

Goal. Introduce night single ship 2D LAT using NVDs. Emphasize LAT procedures using NVDs, communications, and maneuver techniques.

Requirement. Evaluated by NSI(Low). As a single ship, perform descent to CL, straight and level, ridgeline crossings, and check/hard/break turns and Level S. Two circuits required for completion, the first circuit at CL no lower than 500' AGL and the remaining circuits at CL no lower than 300' AGL.

Performance Standards

Know and understand visual illusions associated with NVD usage.

Know and understand mission cross check times.

Prerequisite. NS 2402, LAT-2602, NS(Low)-4701.

Range Requirements. LAT.

NS(Low)-4703 1.3 365 R 2 FA-18C/D A NS

Goal. Introduce night section 2D LAT using NVDs.

Requirement. Evaluated by a NSI(Low). As a section, perform a descent to CL, straight and level, turns, ridgeline crossings, night formations, section level S, and section attacks. Two circuits required for completion, the first circuit at CL no lower than 500' AGL and the remaining circuits at CL no lower than 300' AGL.

Performance Standards

Maintain formation in the LAT environment.

Know guidelines for NVD use outlined in T&R Program Manual.

Execute successful target attack and maintains mutual support. Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Adhere to tactical abort parameters.

Prerequisite. NS-2402, LAT-2602, NS(Low)-4702.

Ordnance. 6 MK-76, 40 Chaff/20 Flare.

Range Requirements. LAT.

8. Forward Air Controller (Airborne) FAC(A) FA-18A/C

a. Purpose. To develop proficiency in FAC(A).

b. General

(1) The JCAS AP MOA 2004-02 with update of 21 July 2008 (referred to as the JFAC(A) MOA) provides the minimum standard for certification and qualification as a FAC(A). Meeting the T&R syllabus requirements for FAC(A) will meet or exceed the JFAC(A) MOA requirements for training and controls (12 controls; 8 of these 12 controls must be Type 1, 8 controls must be fixed wing, 4 controls must have CAS assets expend live or training ordnance, and

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at least 1 must be at night). The JFAC(A) MOA can be found on the SIPRNET at <http://jfac.mawtsl.usmc.smil.mil>. Aircrew conducting FAC(A) operations shall comply with the policies contained in the most recent version of the JFAC(A) MOA.

(2) Prior to beginning this stage, FA-18A/C pilots will be either a division leader with prior ground FAC or FAC(A) experience or a mission commander.

(3) FA-18A/C FAC(A) pilots will log 4000-phase codes for their FAC(A) syllabus [e.g., FAC(A)-3804 becomes FAC(A)-4804]. FAC(A)4813 through FAC(A)-4816 sorties are not required for initial FAC(A) qualification and are FAC(A) core plus sorties for both FA-18D and FA-18A/C.

(4) Nonqualified aircrew will fly FAC(A)-4803 through FAC(A)-4811 with a MAWTS-1 certified FA-18A/C FAC(A)I or an FA-18D FAC(A)I crew designated by the commanding officer. The FAC(A)I will be in the escort aircraft. The FAC(A)I may simulate the JTAC if one is not available. The SFAC(A)-4801 and 4802 will be completed with a FAC(A)I at the simulator console.

(5) Upon successful completion of FAC(A)-4801 through FAC(A)-4811 and compliance with JFAC(A) MOA certification requirements, the commanding officer may issue a T&R FAC(A) qualification as well as a JFAC(A) MOA FAC(A) certification.

(6) A non-qualified FAC(A) pilot must have a FAC(A)I in the section and may not control CAS aircraft delivering actual ordnance closer than the most conservative of minimum safe distance, 1000 meters, or range regulations. A FAC(A) qualified pilot may not employ CAS aircraft delivering actual ordnance closer than the most conservative of minimum safe distance or range regulations.

(7) FAC(A)-4809 through FAC(A)-4811 are exercises in integrating the fire support assets previously controlled separately in the FAC(A) syllabus. The intent is to expose prospective FAC(A) aircrew to the unique challenges posed by each asset when integrated with FW CAS. Each sortie should concentrate on the integration procedures for a different asset, culminating in a final FAC(A)-4811 checkride using multiple fire support assets. If FAC(A)-4809 integrates IDF assets, FAC(A)-4810 should integrate RW/UAS CAS and vice versa. If RW/UAS assets are integrated, emphasis should be combined or sectorized sequential/simultaneous attacks. If IDF is integrated, emphasis should be on altitude or lateral deconfliction of fires. At a minimum, IDF must be integrated into one of the sorties in the FAC(A)-4809 through FAC(A)-4811, with FAC(A)-4809 being the preferred sortie.

(8) Due to the high-task loading nature of the FAC(A) mission, pilots who achieved their initial FAC(A) qualification in an FA-18D, will complete the entire qualification syllabus in an FA-18A/C under the supervision of a FAC(A)I, in accordance with paragraph (4) above, prior to being FAC(A) qualified in an FA-18A/C squadron. An FA-18D FAC(A)I may attain an FA-18A/C FAC(A)I in accordance with the requirements of the MAWTS-1 Course Catalog.

(9) Failure to meet JFAC(A) MOA currency requirements, or loss of proficiency (delinquent refly factor), for all associated FAC(A) qualification events (per paragraph 500.1.b), constitutes loss of the FAC(A) qualification.

(10) Aircrew who have lost the FAC(A) qualification due to failure to meet JFAC(A) MOA currency requirements shall regain the FAC(A) qualification by successfully completing events as delineated in the appropriate T&R

syllabus under the supervision of a qualified FAC(A) (recommend a current and qualified FAC(A) or FAC(A)I). At a minimum, such aircrew must complete the number and category (appropriate night, control type, ordnance, etc.) of controls the individual failed to accomplish during the appropriate six-month currency period (6 controls; 4 of these 6 controls must be Type 1, 2 controls must be fixed wing Type 1, 1 control must have CAS assets expend live or training ordnance, and at least 1 must be at night).

(11) Aircrew who have lost the FAC(A) qualification due to exceeding the refly interval in all associated qualification events, or who have been FAC(A) unqualified for 18 consecutive months per the JFAC(A) MOA, shall regain qualification by completing the Refresher FAC(A) syllabus under the supervision of a FAC(A)I and conduct a minimum of 6 controls (4 of these 6 controls must be Type 1, 2 controls must be fixed wing Type 1, 1 control must have CAS assets expend live or training ordnance, and at least 1 must be at night).

(12) The intent of the T&R refly intervals is to meet the JFAC(A) MOA minimum requirements for currency/proficiency controls:

JFAC(A) MOA Requirements				
Interval	Total Controls	Type 1	FW Type 1	Ordnance/ Night
180 days	6	4	2	1/1

(13) Escort aircraft that are flown by a FAC(A)I conducting instruction during a FAC(A)/FAC(A)I workup will log the appropriate FAC(A) code and log the FAC(A) controls. FA-18A/C FAC(A) flights should fly as a section, and the escort for an FA-18A/C FAC(A) shall be 2000 phase complete. Escort aircraft will not fulfill the external support requirement of a FW CAS element for any FAC(A) qualification workup sortie.

(14) Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9X, TPOD (Litening/ATFLIR), LST, KY-58, DCS/VMF, MIDS, JHMCS, and chaff/flare.

c. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (16 Events, 20.2 hours).

SFAC(A)-4801 1.0 * 2 TOFT S

Goal. Type 1/2/3 FAC(A) control procedures.

Requirement. Conduct Type 1/2/3 FAC(A) controls. Emphasize C³ integration, target area flow/timing, sensor management, switchology, and crew resource management. Two Type 1, two Type 2, and two Type 3 controls required for completion. FAC(A)I at the simulator console must simulate C3 agencies, TACP, and CAS aircraft.

Performance Standards

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for CAS attacks. Position FAC(A) aircraft appropriately to provide marking and control while executing FAC(A) profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. CAS-3104, SCAR-3302, division leader with FAC/FAC(A) experience or mission commander.

SFAC(A)-4802 1.0 * 2 TOFT S

Goal. Adverse weather, high-threat (restrictive) FAC(A) control procedures.

Requirement. Conduct Type 1 high-threat FAC(A) controls. Emphasize C3 integration, target area flow/integration/timing, sensor management, switchology, and crew resource management. Four Type 1 controls required for completion. SEAD CFF mission must be given for each TOT. FAC(A)I at the simulator console must simulate C³ agencies, TACP, indirect fire assets, and CAS aircraft. Simulated weather is overcast at 8K'.

Performance Standards

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for IDF and CAS attacks.

Employ proper communications format with the firing unit. Position FAC(A) aircraft appropriately to provide marking and control while executing FAC(A) profiles appropriate for threat, friendly locations, systems, and environment. Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. SFAC(A)-4801.

FAC(A)-4803 1.3 90 R 1 FA-18A/C and 1 Escort A (NS)

Goal. Introduce FAC(A) FW Type 1 and 2 control procedures with laser/PGMs in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft using level and roll-in delivery profiles. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate laser mark on target and guide one LGW to impact. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Performance Standards

Execute appropriate Search/Detection/ID profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Provide LASER mark using proper J-LASER terminology and successfully guides LGW to impact, if required.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2313, SFAC(A)-4802.

Ordnance. 2 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements with live, inert, or captive PGMs and a JTACS. LSTs are desired.

FAC(A)-4804 1.3 * 1 FA-18A/C and 1 Escort A

Goal. Introduce FAC(A) FW Type 1/3 control procedures with GP ordnance in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control three Type 1 and one Type 3 attacks by FW aircraft using low threat tactics and GP ordnance. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate marking rounds on target, with a minimum of one mark via aircraft ordnance. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft and the ability to provide talk-ons. Provide BHA. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Provide accurate verbal description during talk-on attacks. When required, mark the target with a CEP less than 300 meters.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendlies, systems, and environment.

Execute FAC(A) Type 1/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2309, SFAC(A)-4802.

Ordnance. Two pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements with live or inert GP ordnance and a JTAC.

FAC(A)-4805 1.3 * 1 FA-18A/C and 1 Escort A (NS)

Goal. Introduce FAC(A) RW Type 1, 2, and 3 control procedures in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control one Type 1, two Type 2, and two Type 3 attacks by attack helicopters. Use appropriate RW CAS briefing and control procedures. Perform

authentication procedures. Deliver marking rounds/talk-on (rockets/guns/TOW) or provide laser designation (Hellfire). If conducted at night, use appropriate tactics for target illumination if necessary. For Type 1 (rockets/guns) controls, emphasis should be on providing corrections, ensuring compliance with limit-of-advance and providing threat lookout for RW assets in the target area. For Type 2 (TOW) controls, emphasis should be on providing a target sort and ensuring no friendlies in the SDZ. Two TOW/Hellfire controls are required for completion. One of the two controls must have the FAC(A) lasing for Hellfire employment. Simulated TOW and captive Hellfire are acceptable.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Provide accurate verbal description during talk-on attacks. If required, mark the target with a CEP less than 300 meters. Provide laser mark using proper J-LASER terminology.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendlies, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2313, SFAC(A)-4802.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. RSTD, JCAS, SST, EXP.

External Syllabus Support. One or two RW CAS elements with live/captive Hellfire and a JTAC.

FAC(A)-4806 1.3 * 1 FA-18A/C and 1 Escort A (NS)

Goal. Introduce FAC(A) Type 1/2/3 control procedures in an urban environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets in an urban environment, generating target coordinates with aircraft systems. Plot targets on Gridded Reference Graphic (GRG) and prepare target briefs. Control two Type 1 and two Type 2/3 attacks by aircraft. Use appropriate CAS briefing and control procedures. Deliver or coordinate marks as required. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft, and the ability to provide GRG-based talk-ons. Integrate fires with JTAC via datalink from TPOD to remote station, if so equipped. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate, 9-line and BHA generation.
Provide accurate verbal description during GRG talk-on attacks.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. CAS-3104, SFAC(A)-4802.

Ordnance. 1 AGM-65E (captive or live), 1 GBU-12/16, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP, URBN WPNS.

External Syllabus Support. One or more FW or RW CAS elements, and a JTAC. JTAC should have capability to receive TPOD video via datalink.

FAC(A)-4807 1.3 * 1 FA-18A/C and 1 Escort A (NS)

Goal. Introduce mortar/artillery airstop.

Requirement. Perform visual/sensor reconnaissance on three tactical targets, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare a call-for-fire brief. Emphasize accurate call-for-fire communications and adjustment procedures. One adjust fire (laser grid), one immediate suppression, one SEAD mission, and one high threat SEAD mission required for completion. Emphasis on high-threat airstop is FAC(A) positioning to provide redundant mark and accurate corrections for IDF with simulated weather of overcast at 8,000 ft MSL. Both SEAD missions must include marking and suppression targets.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Employ proper communications format with the firing unit.
Provide timely and accurate corrections to the firing unit.
Complete an immediate suppression CFF within 60 seconds of receiving the mission from the JTAC.

Prerequisite. SFAC(A)-4802.

Ordnance. 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP.

External Syllabus Support. IDF asset (mortars or artillery) and a ground JTAC or FO. IDF asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.

FAC(A)-4808 1.3 180 R 1 FA-18A/C and 1 Escort A NS

Goal. Introduce FAC(A) Night Systems procedures in a low (permissive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded

imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate marking rounds or IR/LASER mark on target. At least one Type 1 control must use an IR pointer, if so equipped. At least one Type 1 control must be supported by air-delivered covert illumination (LUU-19). Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries. If LUU-19s are not available, LUU-2s/illum rockets may be substituted.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Provides IR/laser mark using proper terminology.
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.
Execute FAC(A) Type 1/2 control TTPs IAW JCAS using proper terminology.

Prerequisite. AS-2307, NS-2402, FAC(A)-4803.

Ordinance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 4 LUU-19/LUU-2 or 1 pod 2.75" Illum rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, SST, EXP.

External Syllabus Support. One or two FW CAS elements and a JTAC.

FAC(A)-4809 1.3 365 R 1 FA-18A/C and 1 Escort A

Goal. Introduce FAC(A) two-element integration procedures in a day, medium (restrictive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control four Type 1 attacks by FW aircraft utilizing medium threat tactics. A minimum of two CAS profiles must be pop-up attacks. Emphasis during these pop-up attacks is on FAC(A) positioning for redundant marking and Type 1 control. Deliver or coordinate marks on target. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and 9-line generation.
Ensure proper coordination and approval for IDF, rotary wing, and fixed wing attacks.
Execute FAC(A)/CAS attack profiles appropriate for threat,

friendly locations, systems, and environment.
Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A)-4803-4807 complete.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. One FW CAS element, one additional fire support asset (RW CAS/UAS CAS/IDF) and a JTAC. If IDF is to be used 10 HE rds, 4 WP rds for marking or suppression required.

FAC(A)-4810 1.3 365 R 1 FA-18A/C and 1 Escort A NS

Goal. Introduce FAC(A) two-element integration procedures in a night, medium (restrictive) threat environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 and two Type 2 attacks by FW aircraft utilizing medium threat tactics. Deliver or coordinate marks on target. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for IDF, rotary wing, and fixed wing attacks.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. NS-2402, FAC(A)-4803, FAC(A)-4808, FAC(A)-4809.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. One FW CAS element, one additional Fire support asset (RW CAS/UAS CAS/IDF), and a JTAC. If IDF is to be used 10 HE rds, 4 WP rds for marking or suppression required.

FAC(A)-4811 1.3 365 R 1 FA-18A/C and 1 Escort A (NS)

Goal. Practice FAC(A) multi-element and supporting arms integration.

Requirement. Perform visual/sensor reconnaissance, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Plan and execute at least one integrated attack utilizing three or more elements. For FW/RW/UAS integration, emphasis is on conducting a sectored or combined (simultaneous or sequential attack). For CAS/IDF integration, time, altitude, or lateral deconfliction can be used. This evaluation sortie should be flown in a MAGTF-level exercise if possible.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Ensure proper coordination and approval for IDF and CAS attacks.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 1/2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A)-4803, FAC(A)-4810.

Ordnance. 2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff/20 Flare.

Range Requirements. JCAS, EXP.

External Syllabus Support. Minimum of three fire support assets (FW CAS/RW CAS/UAS CAS/IDF) and a JTAC. IDF asset requires 10 HE rds, 4 WP rds.

FAC(A)-4812 1.3 * 1 FA-18A/C A (NS)

Goal. Introduce escort procedures for FAC(A) wingman.

Requirement. Perform wingman duties during a FAC(A) mission. Provide mutual support, threat lookout, and duties assigned by the FAC(A) aircraft. Emphasis on communications relay and backup marks.

Performance Standards

Maintain mutual support and threat lookout throughout mission. Maintain situational awareness to rapidly assist FAC(A) with backup marks and alternate radio communications.

Prerequisite. AS-2307, CAS-3103.

Ordnance. 1 AGM-65E (captive or live), 1 GBU-12/16 or 2 pods 2.75"/5.0" rockets, 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. 2+ CAS aircraft. Indirect fire and C³ agencies preferred.

FAC(A)-4813 1.3 * R (D only) 1 FA-18A/C/D and 1 Escort A (NS)

Goal. Introduce FAC(A) adverse weather procedures in an elevated-threat (restrictive) environment.

Requirement. Perform visual/sensor reconnaissance of three separate targets on a tactical range, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare target briefs. Control two Type 1 pop-up attacks and two Type 2 standoff attacks by FW CAS aircraft. Deliver or coordinate marking/suppression rounds on target. For IDF integration, emphasis is on altitude or lateral de-confliction of fires effects using standard SEAD templates. Demonstrate the ability to provide timely, accurate corrections for CAS aircraft. Provide BHA. Four controls required for completion. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries. Simulated weather is overcast at 8K'. This flight may be flown at night once it has been successfully completed during the daytime.

Performance Standards

Execute appropriate search, detection, and identification profiles.

If required, mark the target with a CEP less than 300 meters.

Ensure proper coordination and approval for IDF and fixed wing attacks.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendlies, systems, and environment.

Execute FAC(A) Type 1/2 control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A) Qual, FAC(A)-3811(D)/4811(A/C).

Ordnance. 2 pods 2.75"/5.0" RP rockets or 4 Mk-82/83, 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. One or two FW CAS elements, one IDF asset and a JTAC. IDF asset requires 10 HE rds, 4 WP rds.

FAC(A)-4814 1.3 * 1 FA-18A/C/D and 1 Escort A (NS)

Goal. Introduce UAS/UCAV integration.

Requirement. Perform visual/sensor reconnaissance on three tactical targets, generating target coordinates with aircraft systems. Receive one laser spot/target handoff from a UAS/UCAV. Plot targets on gridded imagery/chart and prepare an attack brief. Control two Type 2 and two Type 3 attacks by UAS/UCAV aircraft. Use appropriate CAS briefing and control procedures. Perform authentication procedures. Deliver or coordinate LASER mark on target and guide one LGW to impact. Provide BHA and coordinate with UAS/UCAV to provide BHA. Four controls required for completion. If a range that permits Type 2 Control is not available, Type 2 Control may be evaluated with simulated LGW deliveries.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and 9-line generation.

Provides laser mark using proper J-LASER terminology.

Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment.

Execute FAC(A) Type 2/3 Control TTPs IAW JCAS using proper terminology.

Prerequisite. FAC(A)-3811(D)/4811(A/C).

Ordnance. 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. UAS/UCAV asset with LGWs and a JTAC or FO.

FAC(A)-4815 1.3 * 1 FA-18A/C/D and 1 Escort A (NS)

Goal. Introduce Naval Surface Fire Support airspot TTPs.

Requirement. Perform visual/sensor reconnaissance on three tactical targets, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare a call-for-fire brief. Emphasize accurate call-for-fire communications and adjustment procedures. One adjust fire (laser if feasible) and two mark or SEAD missions.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Employ proper communications format with the firing unit.

Provide timely and accurate corrections to the firing unit.

Require four rounds or less to achieve a bracket sufficient for a fire for effect.

Prerequisite. FAC(A)-3811(D)/4811(A/C).

Ordnance. 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. Naval Surface Fire Support asset and a JTAC, FO, or NGLO. NSFS asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.

FAC(A)-4816 1.3 * 1 FA-18A/C/D and 1 Escort A

Goal. Introduce FAC(A) AC-130 Call For Fire procedures.

Requirement. Perform visual/sensor reconnaissance on three tactical targets, generating target coordinates with aircraft systems. Plot targets on gridded imagery/chart and prepare a call-for-fire brief. Emphasize accurate call-for-fire communications and adjustment procedures. Three missions required for completion.

Performance Standards

Execute appropriate search, detection, and identification profiles.

Correctly use aircraft systems for target coordinate and call-for-fire brief generation.

Provide accurate verbal description during talk-on attacks.

If required, mark the target with a CEP less than 300 meters.

Employ proper communication format with the AC-130.

Prerequisite. FAC(A)-3811(D)/4811(A/C).

Ordnance. 40 Chaff/20 Flare.

Range Requirements. MOA, JCAS, EXP.

External Syllabus Support. One AC-130 and a JTAC.

9. Offensive Anti-Air Warfare (OAAW) - For D only

a. Purpose. To utilize Core Skills in employing the FA-18 in Offensive Anti-Air Warfare missions. Emphasize mission planning, mutual support, knowledge of air-to-air weapons and tactics, sensor usage, standardized communication, weapons employment, timeline awareness, AIC integration, short range radar mechanics, and targeting.

b. General

(1) AIC, MIDS, CATM-9X, CATM-7/120, JHMCS, chaff/flare, and TACTS/TCTS range should be utilized to the maximum extent possible. If co-located with AIC controllers, a face-to-face brief and debrief should be conducted for all engagements.

(2) To gain and maintain proficiency in AAW missions.

d. Ground/Academic Training. Refer to MAWTS-1 FA-18 Course Catalog.

e. Flight and Simulator Event Training. (4 Events, 4.9 Hours).

SOAAW-4901 1.0 365 R 2+ TOFT S

Goal. Conduct an OCA (Sweep) mission against an unknown number of adversaries with SAR-1/IR-3 missiles. Emphasize section intercept procedures, targeting and sorting, valid weapons employment, timeline awareness, and standardized communication.

Requirement. With a minimum of 50 NM separation, the fighters will execute drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 IAW the TACSOP. Four intercepts required for completion.

Performance Standards

Execute proper radar mechanics.

Target as directed.

Recognize threat tactics.

Take valid shots.

Timeline awareness.

Prerequisite. SAA-2508.

OAAW-4902 1.3 180 R 2+ FA-18D vs. 2+ (DISS) ADV A (NS)

Goal. Conduct an OCA (Screen/Close Escort) mission against an unknown number of dissimilar adversaries with SAR-1/IR-3 missiles. Emphasize section intercept procedures, maintaining proper formation and geometry, targeting and sorting, and standardized communications.

Requirement. With a minimum of 50 NM separation, the fighters will conduct close escort tactics of another element (strikers) and execute notch-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AA-2510, SOAAW-4901.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS.

External Syllabus Support. Two or more (dissimilar) adversaries.

OAAW-4903 1.3 180 R 4 FA-18D vs. 2+ (DISS) ADV A

Goal. Conduct a division OCA (Pre-Strike Sweep), in direct support of a strike package, against an unknown number of adversaries with SAR-2 and/or AR-1/IR-3 missiles. Emphasize division intercept procedures, maintaining proper formation, targeting and sorting, valid weapons employment, timeline awareness, and standardized communications.

Requirement. With a minimum of 60 NM separation, the fighters will conduct a PSS for a defined vul period utilizing drag-to-defend tactics. Fighter weapon control status is tight with PHID criteria set by the flight lead according to theater of operation. Adversaries will be level 3 or 4 IAW the TACSOP.

Performance Standards

Maintain mutual support.
Execute proper radar mechanics.
Target as directed.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.

Prerequisite. AA-2510, SOAAW-4901.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, MACH 1+, TACTS..

External Syllabus Support. Two or more (dissimilar) adversaries.

213. INSTRUCTOR TRAINING PHASE

1. Instructor and Standardization Training. Training shall be conducted in accordance with the MAWTS-1 FA-18 Course Catalog.

2. Low Altitude Tactics Instructor (LATI)

a. Purpose. To certify a FA-18 pilot as an instructor capable of safely conducting ground and airborne instruction of the FA-18 LAT flight syllabus.

b. General. Aircrew shall be LAT qualified and current prior to beginning this stage of training. Reference the MAWTS-1 FA-18 Course Catalog for all LATI POI requirements.

c. Flight and Simulator Event Training. (4 Events, 4.9 hours).

<u>SLATI-5101</u>	<u>1.0</u>	<u>*</u>	<u>2 TOFT</u>	<u>S</u>
<u>LATI-5102</u>	<u>1.3</u>	<u>*</u>	<u>2 FA-18A/C/D</u>	<u>A</u>
<u>LATI-5103</u>	<u>1.3</u>	<u>*</u>	<u>2 FA-18A/C/D</u>	<u>A</u>
<u>LATI-5104</u>	<u>1.3</u>	<u>*</u>	<u>R 2 FA-18A/C/D</u>	<u>A</u>

3. Night System Instructor (Low) [NSI(Low)]

a. Purpose. To certify a FA-18 pilot as an instructor capable of safely conducting ground and airborne instruction of the FA-18 night systems low flight syllabus.

b. General. Aircrew shall be designated as a LATI and current prior to beginning this stage of training. Reference the MAWTS-1 FA-18 Course Catalog for all NSI(Low) POI requirements.

c. Flight and Simulator Event Training. (2 Events, 2.3 hours).

<u>SNSI(Low)-5201</u>	<u>1.0</u>	<u>*</u>	<u>2 TOFT</u>	<u>S</u>	<u>NS</u>
<u>NSI(Low)-5202</u>	<u>1.3</u>	<u>*</u>	<u>R 2 FA-18A/C/D</u>	<u>A</u>	<u>NS</u>

4. Forward Air Controller (Airborne) Instructor [FAC(A)I]

a. Purpose. To certify FA-18 aircrew as a FAC(A)I capable of conducting ground and airborne instruction of the FAC(A) mission and capable of safely controlling CAS in close proximity to friendly troops. Emphasize demonstration of ability to coordinate simultaneous FW and RW CAS, artillery, or NSFS, while working for a TACP and operating with a MACCS.

b. General. Reference the MAWTS-1 FA-18 Course Catalog for all FAC(A)I requirements.

c. Flight and Simulator Event Training. (3 Events, 3.9 hours).

<u>FAC(A)I-5301</u>	1.3	*		2	FA-18A/C/D	A	(NS)
<u>FAC(A)I-5302</u>	1.3	*		2	FA-18A/C/D	A	(NS)
<u>FAC(A)I-5303</u>	1.3	*	R	2	FA-18A/C/D	A	NS

5. Flight Lead Standardization Evaluator (FLSE)

a. Purpose. To certify FA-18 aircrew capable of safely and tactically evaluating specific FA-18 events throughout all flight leadership syllabi. Aircrew must be designated by the MAG CO. Once designated an FLSE, aircrew shall evaluate FLSE events only in squadrons other than the one assigned. FLSE aircrew assigned as MAG/Wing staff may evaluate events in any unit approved by the MAG CO.

b. General. Prior to beginning the FLSE-5400 stage, aircrew shall be designated mission commanders and shall be graduates of at least one of the following: Weapons and Tactics Instructor Course (WTI), Marine Division Tactics Course (MDTC), or the Naval Fighter Weapons School (TOPGUN). This requirement is only waivable by the cognizant Wing Commanding General. After completing all six FLSE events in the 5400 stage, aircrew may be designated FLSEs by the MAG CO. Reference the FLSE Program Guide contained in the MAWTS-1 FA-18 Course Catalog for all FLSE POI requirements. FLSE pilots can evaluate any event in the section leader, division leader, and mission commander syllabi. FLSE WSOs can evaluate any WSO FLSE events (SL FLSE-6304, SL FLSE-6310, SSL FLSE-6312, SL FLSE-6324, MC FLSE-6502), any pilot FLSE event when crewed with a non-FLSE pilot one designation higher than the pilot under instruction, or all mission commander events.

c. Flight and Simulator Event Training. (6 Events, 7.2 hours).

<u>FLSE-5401</u>	1.3	545		2	FA-18A/C/D	A	
<u>FLSE-5402</u>	1.3	545		2	FA-18A/C/D	A	
<u>SFLSE-5403</u>	1.0	545		2	TOFT	S	
<u>SFLSE-5404</u>	1.0	545		2	TOFT	S	NS
<u>FLSE-5405</u>	1.3	545		2	FA-18A/C/D	A	NS
<u>FLSE-5406</u>	1.3	545	R	4+	FA-18A/C/D	A	NS

6. Tactical Air Coordinator (Airborne) Instructor [TAC(A)I]

a. Purpose. To certify an FA-18D aircrew as a TAC(A)I capable of conducting ground and airborne instruction of the TAC(A) mission. Emphasize ability to coordinate with the GCE, coordinate mission assignments with the DASC and TACPs, and execute airspace management.

b. General. Reference the MAWTS-1 FA-18 Course Catalog for all TAC(A)I POI requirements.

c. Flight and Simulator Event Training. (1 Event, 1.3 hours).

<u>TAC(A)I-5501</u>	1.3	*	R	1+	FA-18D	A	(NS)
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214. REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RQD) PHASE

1. FA-18 NATOPS Evaluation

a. Purpose. To evaluate the aircrew's knowledge of aircraft systems, performance limitations, emergency procedures, and ground/flight operations.

b. General

(1) NATOPS Evaluators/Instructors shall conduct the NATOPS evaluation in accordance with OPNAVINST 3710.7 Series and other applicable directives, instructions, and orders.

(2) The NATOPS Evaluator shall utilize the NATOPS Model Manager generated NATOPS Aviation Training Form (ATF) and the evaluation metrics required for the accomplishment and performance of the standardized criterion to determine whether the aircrew completed the sortie. Prior to the Oral Examination, the NATOPS Evaluator shall review the aircrew's NATOPS jacket. At the discretion of the squadron commanding officer, a letter designating the pilot as NATOPS qualified shall be placed in the NATOPS jacket and APR.

(3) Prior to the commencement of the NATOPS evaluation event (RQD-6101), the NATOPS Open Book, Closed Book, and Oral Examination events (NTPS-6801, 6802, and 6803) shall be completed and graded.

c. NATOPS Training. All requirements delineated in the matrix below shall be completed prior to designation as NATOPS qualified.

SELF PACED READINGS		DATE COMP
USMC FA-18 ADMIN SOP		
FA-18 NATOPS Flight Manual		
OPNAVINST 3710		
NAVAIR 00-80T-112		
REQUIRED Evaluation Events	DATE COMP/GRADED	INSTRUCTOR
FA-18 Open Book Examination		
FA-18 Closed Book Examination		
FA-18 Oral Examination		
FA-18 Evaluation (Simulator/ Aircraft)		

d. Academic Evaluation Events. 3 events, 3.0 hours.

NTPS-6801 1.5 365 R Open Book NATOPS Examination

Goal. The open book examination shall consist of, but not be limited to the question bank. The purpose of the open book examination portion of the written examination is to evaluate the aircrew's knowledge of the appropriate publications and the aircraft.

Performance Standard

Achieve a minimum grade of qualified on the open book examination.

NTPS-6802 1.0 365 R Closed Book NATOPS Examination

Goal. The closed book examination shall be limited to the question bank. The purpose of the open book examination

portion of the written examination is to evaluate the aircrew's knowledge of the concerning normal/emergency procedures and aircraft limitations.

Performance Standard

Achieve a minimum grade of qualified on the closed book examination.

NTPS-6803 0.5 365 R Oral NATOPS Examination

Goal. The oral examination shall consist of, but not be limited to the question bank. The instructor/evaluator may draw upon their experience to propose questions of a direct and positive manner and in no way be opinionated to evaluate the aircrew's knowledge of the concerning normal/emergency procedures, aircraft limitations, and performance.

Performance Standard

Achieve a minimum grade of qualified on the oral examination.

e. NATOPS Flight or Simulator Evaluation Event. 1 event, 1.0 hours.

RQD-6101 1.0 365 R 1+ TOFT/FA-18A/C/D S/A

Goal. Conduct an objective evaluation of the aircrew's knowledge of normal operating procedures (flight and ground), crew resource management, out-of-control flight, aircraft systems, performance criteria, and emergency procedures. The focus is on normal and emergency procedures, not tactical execution. Emphasis shall be placed on the aforementioned items with the addition of USMC Admin SOP, local course rules, local SOP addendum, and admin flight procedures. The NATOPS evaluation is intended to evaluate compliance with NATOPS procedures. The NATOPS evaluation is the means to measure the aircrew's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. The NATOPS evaluation process should be as much a learning tool and/or experience as it is an evaluation.

Requirement. Demonstrate comprehensive knowledge and understanding of NATOPS, USMC FA-18 ADMIN SOP, and local course rules.

Performance Standard

Executes flight and/or ground operations safely IAW OPNAV 3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules.

Complies with local course rules.

Adhere to USMC FA-18 ADMIN SOP.

Prerequisite. Successful completion of the open book, closed book, and oral examinations.

2. FA-18 Instrument Evaluation

a. Purpose. To evaluate the pilot's knowledge of and adherence to NATOPS instrument procedures.

b. General

(1) The NATOPS instrument evaluation event shall consist of those items delineated in OPNAVINST 3710.7 series (NATOPS), NAVAIR 00-80T-112 (NATOPS Instrument Flight Manual), and FAR/AIM.

(2) The NATOPS instrument evaluator shall utilize the NATOPS model manager-generated NATOPS instrument Aviation Training Form (ATF) and the evaluation metrics required for the accomplishment and performance of the standardized criterion to determine whether the aviator completed the sortie. A letter designating the pilot as NATOPS instrument qualified shall be placed in the NATOPS jacket upon successful completion.

(3) Prior to the commencement of the NATOPS instrument evaluation event (RQD-6102), Instrument Ground School and the Instrument Examination (NTPS-6804 and 6805) shall be completed and graded, and annual instrument minimums shall be met in accordance with OPNAVINST 3710.7 series.

(4) A designated FA-18 instrument check pilot will observe and certify that the PUI is instrument qualified per OPNAVINST 3710.7 series.

c. NATOPS Instrument Training. All requirements delineated in the matrix below shall be completed prior to designation as NATOPS Instrument qualified.

ACADEMIC TRAINING		DATE COMP
Instrument Ground School		
REQUIRED Evaluation Events	DATE COMP/GRADED	INSTRUCTOR
FA-18 Instrument Examination (during Instrument Ground School)		
FA-18 Instrument Evaluation (Simulator/Aircraft)		

d. Academic Evaluation Events. 2 events, 5.0 hours.

INST-6804 1.0 365 R Instrument Ground School Examination

Goal. The instrument ground school examination shall be administered as a part of instrument ground school. The examination shall include questions on the following subjects:

- 1) Pertinent Navy or Marine Corps regulations, orders, and instructions.
- 2) Pertinent parts of the Federal Aviation Regulations (FAR), other regulations, and/or aeronautical publications which are applicable.
- 3) Interpretation of weather information normally used in flight planning.

Performance Standard

Achieve a minimum grade of qualified on the IGS examination.

INST-6805 4.0 365 R Instrument Ground School

Goal. The instrument ground school shall be an approved Commander Naval Air Forces (CNAF) approved syllabus.

Performance Standards

Achieve a minimum grade required for the IGS examination.

e. Flight or Simulator Instrument Evaluation Event. 1 event, 1.0 hours.

RQD-6102 1.0 365 R 1+ TOFT/FA-18A/C/D S/A (NS)

Goal. Following completion of the ground evaluation events, an instrument flight/simulator evaluation event shall be flown and completed with a grade of "Qualified." Conduct an objective evaluation of the aircrew's knowledge of flight planning, filing, briefing, conduct of flight under normal operating conditions, emergency procedures, closing out flight plans, and debriefing.

Requirement. Upon successful completion of these events, the evaluator shall log the appropriate training code for tracking purposes.

Performance Standards

Executes flight and/or ground operations safely IAW OPNAV 3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules.

Prerequisite. Successful completion of the NATOPS evaluation, IGS, and the IGS examination.

3. Required Events (RQD)

a. Purpose. To track training codes associated with required evaluations and flight leadership proficiency.

b. General. Flight leadership proficiency tracking codes (RQD-6103-6105) shall be logged in conjunction with the appropriate 2000-5000 phase event training code every time an aircrew flies an event as a designated section leader, division leader, or mission commander.

c. Flight and Simulator Event Training. (4 Events, 4.9 hours).

RQD-6103 90 R 2 FA-18A/C/D A (NS)

Goal. Track section leader proficiency.

Requirement. To maintain proficiency as a section leader a pilot shall brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

Prerequisite. Designated section leader.

RQD-6104 180 R 4 FA-18A/C/D A (NS)

Goal. Track division leader proficiency.

Requirement. To maintain proficiency as a division leader a pilot shall brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

Prerequisite. Designated division leader.
RQD-6105 365 R 6+ FA-18A/C/D A (NS)

Goal. Track mission commander proficiency.

Requirement. To maintain proficiency as a mission commander aircrew shall brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

Prerequisite. Designated mission commander.
RQD-6106 545 R 4 FA-18A/C/D A (NS)

Goal. Track FLSE currency since last evaluation.

Requirement. To track FLSE currency from the MAWTS-1 FLSE Stan Recheck.

Prerequisite. FLSE-5406.
RQD-6107 1.3 * 1 FA-18A/C/D A

Goal. Provide air-to-air JHMCS introductory flight exposure.

Requirement. Conduct an air-to-air sortie and gain proficiency in the use of JHMCS.

Prerequisite. AA-2506.
RQD-6108 1.3 * 1 FA-18A/C/D A

Goal. Provide air-to-ground JHMCS introductory flight exposure.

Requirement. Conduct an air-to-ground sortie and gain proficiency in the use of JHMCS.

Prerequisite. AS-2309.
RQD-6109 1.3 * 1 FA-18A/C/D A NS

Goal. Provide JHMCS Quad Eye introductory flight exposure.

Requirement. Conduct a night systems sortie utilizing the JHMCS quad eye system.

Prerequisite. AS 2307, NS 2402.
RQD-6110 545 R 1+ FA-18A/C/D A (NS)

Goal. Track proficiency in day or night strategic aerial refueling.

Requirement. Two day contacts or two night contacts required for completion.

External Syllabus Support. KC-135, KC-10 tanker or similar.

Prerequisite. AR-2201.

SRQD-6111 1.0 1095 R 1 TOFT S

Goal. Introduce and demonstrate techniques and procedures associated with the Functional Check Flight (FCF).

Requirement. Simulator shall be used under the supervision of a designated FCF pilot. All portions of the FCF checklist shall be reviewed during the simulator period.

4. Qualification Events (QUAL)

a. Purpose. To track training codes associated with qualifications.

b. General. Once the flight to attain the qualification is complete, a letter from the squadron commanding officer awarding the qualification shall be placed in the NATOPS jacket and APR.

c. Ground/Academic Training. Refer to the MAWTS-1 FA-18 Course Catalog.

d. Flight and Simulator Event Training. (1 Event, 1.3 hours). All other events are executed in the context of another code.

QUAL-6201 * 1+ FA-18A/C/D A

Goal. Tracking code for day Carrier Qualification (CQ).

Requirement. Completion of CQ-4104 meets the requirements for the PUI to be day CQ. At the discretion of the squadron commanding officer a letter assigning the PUI as day CQ shall be placed in the NATOPS jacket.

Prerequisite. CQ-4104.

QUAL-6202 * 1+ FA-18A/C/D A N

Goal. Tracking code for night CQ.

Requirement. Completion of night CQ IAW current Naval Instructions meet the requirements for the PUI to be night CQ. At the discretion of the squadron commanding officer a letter assigning the PUI as night CQ shall be placed in the NATOPS jacket.

Prerequisite. CQ-4105.

QUAL-6203 * 2 FA-18A/C/D A

Goal. Tracking code for LAT qualification.

Requirement. Completion of LAT-2603 meets the requirements for the aircrew to be LAT qualified. At the discretion of the squadron commanding officer a letter assigning the aircrew as LAT qualified shall be placed in the NATOPS jacket.

Prerequisite. LAT-2602, LAT-2603.

QUAL-6204 * 2 FA-18A/C/D A NS

Goal. Tracking code for NS(Low).

Requirement. Completion of NS(Low)-4703 meets the requirements for the aircrew to be NS(Low) qualified. At the discretion of the squadron commanding officer a letter assigning the aircrew as NS(Low) shall be placed in the NATOPS jacket.

Prerequisite. NS(Low)-4703.

QUAL-6205 * LSO Qual

Prerequisite. QUAL-6201, QUAL-6202, LSO required training.

QUAL-6206 1.3 * 1+ FA-18A/C/D A

Goal. Demonstrate proficiency in the execution of FCF checklist.

Requirement. At the discretion of the squadron commander, will be flown in a known "up" aircraft. Completion of the FCF checklist.

Performance Standards

Completion of the applicable FCF checklist.

Prerequisite. RQD-6111.

QUAL-6207 * 2 FA-18A/C/D A (NS)

Goal. Tracking code for FAC(A) qualification.

Requirement. Completion of FAC(A)-3811 (D) or FAC(A)-4811 (A/C) meets the requirements for the aircrew to be FAC(A) qualified. At the discretion of the squadron commanding officer a letter assigning the aircrew as FAC(A) qualified shall be placed in the NATOPS jacket.

Prerequisite. FAC(A)-4811 (A/C) or FAC(A)-3811 (D).

QUAL-6208 * 1+ FA-18D A (NS)

Goal. Tracking code for TAC(A) qualification.

Requirement. Completion of TAC(A)-3902 meets the requirements for the aircrew to be TAC(A) qualified. At the discretion of the squadron commanding officer a letter assigning the aircrew as TAC(A) qualified shall be placed in the NATOPS jacket.

Prerequisite. TAC(A)-3902.

5. Section Leader Standardization and Designation (SL)

a. Purpose. To prepare and evaluate the prospective section leader's ability to plan, brief, lead, and debrief a mission-oriented event as a section leader.

4 Mar 10

b. Background. The removal of the ACTI and NSI programs place additional instructional and ORM requirements on section leaders. For this reason the SL syllabus was re-built in order to produce section leaders that have been exposed to more in depth rigor in tactics and flight leadership standardization via the FLSE program by MATSS. The requirements for each flight as well as the FLSE requirements on certain flights will prepare the PSL to provide the level of instruction, standardization, risk management required for 2000/3000 phase T&R training. Additionally the program was re-written assuming that when a PSL begins the evaluated syllabus outlined below, they will have already had some experience leading sections administratively.

c. General

(1) Prospective section leaders (PSL) shall have a minimum of 200 hours in model, 400 hours total, and be complete with all 2000 and 3000 phase events (except FAC(A) and TAC(A) for FA-18D crews) prior to commencing the section lead syllabus (SL-6301-6326). WSOs are also required to complete the section leader syllabus. WSOs shall have a minimum of 200 hours in model and be complete with all 2000 and 3000 phase events (except FAC(A) and TAC(A)) prior to commencing the section leader syllabus (SL-6301-6326). WSOs may begin transition to the FAC(A) syllabus once they have completed the air-to-surface stages of the section leader syllabus (complete with SL-6301 through SL-6314). WSOs are required to brief and debrief events SL FLSE-6304, SL FLSE-6310, SSL FLSE-6312, and SL FLSE-6324. Prior to attending a school or beginning the mission commander syllabus, WSOs must complete the section leader syllabus.

(2) Aircrew who retain a Section Leader designation prior to the new T&R Syllabus (3500.50A) outlined below must complete a conversion syllabus prior to any flight leadership flights. This conversion syllabus will ensure that Section Leaders who have not attained their designation under the present construct get the required events to mitigate ORM concerns and provide them with the appropriate level of flight leadership to conduct specific sorties. The following matrix provides guidance on the events that need to be completed:

1. SIM NS circle the wagons evaluated by a NSI or Division Leader (new T&R construct 3500.50A).
2. SIM NS CAS evaluated by a NSI or Division Leader (new T&R Construct 3500.50A).
3. BFM briefing lab evaluated by an ACTI or Division Leader (new T&R construct 3500.50A).
1. SIM NS circle the wagons evaluated by an NSI or Division Leader (new T&R construct 3500.50A).

These are the minimum required events for conversion to be a Section Leader under the new T&R construct. Additional events to foster a solid understanding of NS and BFM/ACM concepts and execution may be required and are at the discretion of the commanding officer. These events must be documented and placed in the APR and NATOPS jacket.

(3) To the greatest extent possible, PSLs should conduct the following day and night syllabus sorties in order. All SL events shall be evaluated by a designated division leader or mission commander. Nine specific SL events (labeled SL FLSE) shall be evaluated by a standardized, MAG CO designated, FLSE assigned by the MATSS OIC. **SL FLSE events shall not be evaluated by**

internal squadron FLSE's. A WSO FLSE may evaluate any WSO FLSE event (SL FLSE-6304, SL FLSE-6310, SSL FLSE-6312, SL FLSE-6324) or any pilot FLSE event when crewed with a non-FLSE pilot one designation higher than the pilot under instruction.

(4) The SL evaluator will use the sortie requirement accomplishment criteria (mission performance standards) to determine whether the PSL completed the sortie. The PSL will use the performance standards to debrief the flight. All simulator events will include full mission briefs (excluding admin) for a duration of not less than 1 hour.

(5) Completion of the SL syllabus meets the requirements for designation as section leader. At the discretion of the squadron commanding officer, a letter designating the pilot as a section leader or a WSO as a section leader equivalent shall be placed in the NATOPS jacket and APR. Re-designation for aircrew that do not require Core Skill Introduction Refresher training is at the discretion of the commanding officer. For aircrew that require Refresher training, the minimum re-designation requirement is successful completion of the R-coded events.

(6) Aircraft should be configured with operable VTR/CVRS, ALQ-126B, ALR-67, KY-58, TPOD, MIDS, CIT, DCS/VMF, LST, TACTS/TCTS pods, and chaff/flare.

d. Academic Training. Academic training shall be conducted IAW FA-18 Course Catalog.

e. Administrative Flight Requirements. Administrative flight requirements are to be performed on the flights assigned below. If the requirements can not be accomplished on the designated flight (weather, runway, etc.) it shall be completed prior to the SL-6326.

ADMINISTRATIVE FLIGHT REQ.	FLIGHT
LEAD OVERHEAD BREAK	SL-6317
LEAD SECTION PAR	SL-6301
LEAD SIM NORDO APPROACH	SL-6316
LEAD SIM HUNG ORD APPROACH	SL-6304
LEAD STRT IN FLT LD SEP	SL-6304
LEAD OVERHEAD BREAK - NT	SL-6314
LEAD PAR - NT	SL-6306
LEAD STR IN FLT LD SEP - NT	SL-6303
SECTION LANDING	SL-6320
INTERVAL TAKEOFF	SL-6301
SECTION TAKEOFF	SL-6315
CONDUCT TACTS/TCTS DEBRIEF	SL-6321
FLY AS DASH THREE IN A DIV	

f. Flight and Simulator Event Training. (26 Events, 35.8 hours).

SL-6301 1.3 * 2 FA-18A/C/D A

Goal. Conduct a lvl all-weather intercept sortie in a local area training range. Target audience is a new aircrew recently complete with the FRS and unfamiliar with SOP and

local area procedures. Emphasis shall be placed on knowledge of NATOPS, USMC FA-18 ADMIN SOP, local course rules, local SOP addendum, and admin flight procedures.

Requirement. Plan, brief, lead, and debrief lvl intercepts that departs via an interval take-off and recovers via a section PAR. With a minimum of 50 NM separation, conduct a minimum of three all weather intercepts from a medium altitude versus forward quarter capable, maneuvering adversaries, commencing at high, medium, and low altitude. Demonstrate comprehensive knowledge and understanding of TACSOP recommendations, NATOPS, USMC FA-18 ADMIN SOP, and local course rules. Validate all shots.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute intercepts safely IAW OPNAV 3710 and training rules.
Demonstrate proficiency in basic radar mechanics.
Take valid shots.
Accurately recall and reconstruct using a white board.
Provide effective flight leadership and direction.

Prerequisite. 2000 and 3000 events complete.

Ordnance. CATM-9X, CATM-7/120. 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

SSL-6302 1.5 * 2 TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute surface-to-air countertactics (SACT) at medium and high altitude to survive in a surface-to-air threat environment. Target audience is a new aircrew who recently completed the FRS who is conducting his SAS-2301 for the first time. Emphasis will be placed on correctly assessing RWR indications based on location on the route, executing the appropriate preemptive and/or reactive maneuvers IAW the TACSOP.

Requirement. Plan, brief, lead, and debrief a section air interdiction mission in a medium to high threat surface-to-air environment. Conduct preemptive and reactive maneuvers to defeat the IADs. Adhere to current tactical recommendations put forth by the TACSOP for appropriate maneuvers. IADs construction is at the discretion of the IP but will cover every form of threat reaction dealing with both tactical and strategic SAMs. Brief a strike route and a target area attack addressing key terms (FAP, DP/IP, etc). Demonstrate knowledge in SACT. Validate all deliveries and evaluate SACT defensive reactions. Debrief target area attack and overall mission execution. Three runs are required for completion.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Accurately recall and reconstruct using white board or the briefing debriefing station (BDS).
Provide valid learning points.
Correctly assess the threat based upon the briefed scenario

and aircraft cueing (ALR-67, MIDS, etc.).
Correctly perform briefed TTPs while maintaining situational awareness and mutual support.
Survive the threat to continue with the mission.
Provide effective flight leadership and direction.

SL-6303 1.3 * 2 FA-18A/C/D A NS

Goal. Conduct a night, section ordnance delivery sortie on a raked range, utilizing high/medium angle delivery profiles. Target audience is an aircrew that has recently completed the SNS-2401 and is familiar with local course rules and USMC FA-18 ADMIN SOP. Emphasis should be on night system considerations (NVD setup, illusions, formation procedures), planning delivery profiles (Z-diagrams), ordnance delivery mechanics, night air-to-surface delivery considerations, illusions, pattern deconfliction and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a section ordnance delivery sortie in a raked range that recovers via a visual straight in. Six high angle and six medium angle deliveries are required for completion of the event. Use of air-to-ground planning tools (WASP) are required to produce valid delivery profiles. The prospective flight lead shall plan two delivery profiles with aim off angles of less than 10 degrees and with a min alt no lower than 3K' AGL. Carriage and release limits, MRI, stick length, valid delivery and abort considerations for a notional live ordnance load in addition to actual loadout shall be briefed. Debrief pattern, delivery safety and deconfliction, evaluate flight leadership and validate all deliveries.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Adhere to tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Maintain briefed pattern deconfliction IAW range regulations, training rules, and environmental conditions.
Maintain safety awareness of wingman's delivery parameters.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6301, SSL-6302.

Ordnance. 12 Mk-76, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, LSR, WISS, TGT, LT INERT, EXP.

SL FLSE-6304 1.3 * 2 FA-18A/C/D A

Goal. Conduct high drag pop attacks and strafe on a raked range as a single ship and as a section. Target audience is a new aircrew recently completed with the FRS and is familiar with local course rules and USMC FA-18 ADMIN SOP. Emphasis will be placed on planning pop and strafe delivery profiles

(Z-diagrams), ordnance delivery mechanics, and overall flight leadership.

Requirement. Evaluated by FLSE (FA-18D WSO brief/debrief event). Plan, brief, lead, and debrief a section ordnance delivery sortie in a raked range that recovers via a visual straight in simulating an a/c with hung ordnance. Two individual high drag deliveries, two section high drag deliveries, two bunt gun strafes, and two roll in gun strafes are required for completion of this event. Use of WASP is required to produce valid delivery profiles. Plan one delivery profile for the high drag ordnance with a min alt no lower than 500' AGL; two strafe profiles with a min alt no lower than 500' AGL. Brief carriage and release limits, MRI, stick length, valid delivery and abort considerations for a notional live ordnance load in addition to actual loadout. A detailed brief of low altitude section maneuvering, section target attacks, and A/G gunnery is required. The brief should cover pop mechanics, target area deconfliction, and symbology to include slant range source and indications and BALT/RADALT considerations. Debrief pattern, delivery safety and deconfliction, evaluate flight leadership, and validate all deliveries.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.

Execute proper admin and tac admin procedures.

Adhere to tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Maintain briefed pattern deconfliction IAW range regulations, training rules, and environmental conditions.

Maintain safety awareness of wingman's delivery parameters.

Draw valid learning points.

Provide effective flight leadership and direction.

Prerequisite. SL-6303.

Ordnance. 6 BDU-48, 500 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, LAT, RKD RNG, LSR, WISS, STRAFE, TGT, LT INERT, EXP.

SSL-6305 1.5 * 2 TOFT S NS

Goal. Demonstrate knowledge and proficiency in being able to teach and execute the delivery of laser guided weapons with a TPOD in a night environment. Target audience is an aircrew that recently completed the NS-2404 who is familiar with the USMC FA-18 ADMIN SOP and MAWTS-1 FA-18 TACSOP. Emphasis will be placed on night systems capabilities and limitations, cockpit displays, switchology, and employment techniques for LGB's and laser maverick with the TPOD and NVDs.

Requirement. Plan, brief, lead, and debrief section employment on a predetermined target with different types of laser guided weapon deliveries based off of employment recommendations. With laser guided bombs, three self-lase profiles (2 level, 1 dive), three buddy lase (2 level, 1 dive), and 2 buddy bomb (level) attacks required for

completion. With laser maverick, two buddy lase (1 lasing, 1 as shooter) attacks required. The delivery profiles will be planned and briefed with the required TOF to support a LGB in a level and dive delivery and to support a LMAV. LGB and LMAV preflight and employment ROTs should be covered in the brief. Brief carriage and release limits, MRI, stick length, valid delivery and abort considerations for simulated loadout. Demonstrate proficiency in weapons delivery, knowledge of all pertinent systems to include TPOD use and symbology, and validate all deliveries. Debrief pattern, delivery safety and deconfliction, evaluate flight leadership and validate all deliveries.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Adhere to tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Execute proper procedures for weapon release and guidance.
Demonstrate familiarity with the TPOD and employment.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6302.

SL-6306 1.3 * 2 FA-18A/C/D A NS

Goal. Conduct night section LGB deliveries using buddy lase/buddy bomb tactics. Target audience is an aircrew that recently completed the NS-2404 who is familiar with the USMC FA-18 ADMIN SOP and MAWTS-1 FA-18 TACSOP. Emphasis should be on LGB planning, laser deconfliction, DPI acquisition, laser marksmanship, weapons support, and section target area tactics, to include buddy lase/buddy bomb mechanics.
Requirement. Plan, brief, lead, and debrief a section LGB target area tactics that recovers via a section PAR. Two runs of section self-lase, two runs buddy lase (lead lase), and two runs buddy bomb (wingman system degrade) required for completion of the event. Plan and brief all section LGB delivery profiles to include buddy lase techniques IAW with TACSOP. Brief considerations, capabilities, and limitations of TPOD and laser spot size, placement and deconfliction. Brief air-to-ground timeline and target area tactics IAW TACSOP. Debrief pattern, delivery safety and deconfliction, evaluate flight leadership and validate all deliveries. TPOD required.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Adhere to tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Maintain briefed pattern deconfliction IAW range regulations, training rules, and environmental conditions.
Maintain safety awareness of wingman's delivery parameters.
Acquire and designate briefed target.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6305.

Ordnance. 2 GBU-12/16 or 2 LGTR, 40 Chaff/20 Flare.

Range Requirements. RSTD, RKD RNG, LSR, WISS, TGT, HE, (HVY INERT), LGB, EXP.

SSL FLSE-6307 1.5 * 2 TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute ordnance deliveries of Inertial Aided Munitions (IAMS), JDAM and JSOW. Target audience is a new aircrew recently completed with the FRS and who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on mission planning, system management, valid deliveries, and overall familiarization of all modes of operation with these weapons.

Requirement. Evaluated by a FLSE. Plan, brief, lead, and debrief a section JDAM and JSOW weapons sortie on a predetermined target. Adhere to TACSOP, valid delivery profiles, safe escape, min altitude and abort criteria. 12 deliveries are required for completion of the event. Two deliveries from each weapon shall be conducted using pre-planned, two JDAM from TOO (one POS REL and one POS ABS) and two JDAM using a pre-planned quantity release. Plan and brief JSOW delivery profile to include 2D waypoints and terminal parameters to understand max range and heart of the envelope deliveries. Discuss fuze/tail kit combinations, weapon and aircraft software requirements, symbology and switchology. Brief carriage and release, MRI, stick length, safe escapes, validation, and abort considerations. Demonstrate proficiency in using mission planning software, weapons delivery and knowledge of all pertinent systems. Debrief A/G timeline and delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.

Adhere to tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Acquire and designate briefed target.

Draw valid learning points.

Provide effective flight leadership and direction.

Prerequisite. SSL-6305.

SL-6308 1.3 * 2 FA-18A/C/D A

Goal. Conduct a section Armed Reconnaissance of a target area with unguided bombs and/or cluster munitions. Target audience is an aircrew that has completed the AS-2300 stage and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis should be on reactive weaponeering, WASP planning, MRI and stick length considerations, min frag avoidance, min fuzing. Additional emphasis on search profiles and techniques, target area tactics, delivery profiles, and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a section Armed Reconnaissance mission in a designated area using unguided munitions. Conduct a high altitude area search and a target area search. At a minimum, a direct attack, a delayed attack, and a transition attack must be executed. Be able to locate, plot, and destroy targets of opportunity. Use all available planning tools to brief reactive weaponeering, carriage and release limits, delivery profiles, and safe release/escape profiles. Brief TPOD search and acquisition techniques, offboard cueing sources, and coordinate generation/passage. React appropriately to surface-to-air threats from tactical IR and RF SAMs. Execute section attacks on targets of opportunity IAW a target precedence list (TPL), rules of engagement (ROE), and positive identification (PID). Debrief transitions, profiles, delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Conduct visual/sensor reconnaissance of assigned area and detect targets.
Perform target attacks appropriate for scenario.
Minimize threat exposure and directs appropriate SACT.
Maintain situational awareness of wingman and mutual support.
Locate targets.
Direct coordinated section attacks.
Attack and destroy the correct target.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL FLSE-6304.

Ordnance. 4 Mk-82/83/84 or 2 Mk-82/83/84 and 2 CBU-99B/B, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT), EXP, ICM.

SSL-6309 1.5 * 2+ TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute ordnance deliveries with LGBs and JDAM in an AR/SCAR environment. Target audience is an aircrew that has completed the AS-2300 stage and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on the application of proper AR/SCAR TTPs. This will include the use of both onboard and offboard systems and sensors to detect targets, solve positive identification (PID), and satisfy rules of engagement (ROE) and CDE IOT minimize time to kill IAW a target precedence list (TPL). Additional emphasis on flight leadership to include a battlefield handover and the management of multiple assets within a single assigned area.

Requirement. Plan, brief, lead, and debrief a section Armed Reconnaissance mission in a designated area using precision guided munitions. For completion, conduct a high altitude area search, discuss/pass target information, and execute the most appropriate target area attack (direct, transition, delay). Be able to locate, plot, and destroy targets of

opportunity. Use all available planning tools to brief reactive weaponeering, carriage and release limitations, delivery profiles, and safe release/escape profiles. Brief TPOD search and acquisition techniques, offboard cueing sources, and coordinate generation/passage. React appropriately to surface-air threats. Execute section attacks on targets of opportunity IAW a TPL, PID, and ROE. Debrief transitions, profiles, delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Conduct visual/sensor reconnaissance of assigned area and detect targets.

Perform target attacks appropriate for scenario.

Minimize threat exposure and directs appropriate SACT.

Maintain situational awareness of wingman and mutual support.

Locate targets.

Direct coordinated section attacks.

Attack and destroy the correct target.

Adhere to tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Draw valid learning points.

Provide effective flight leadership and direction.

Proficiency Prerequisite. SSL FLSE-6307.

SL FLSE-6310 1.3 * 2+ FA-18A/C/D 2 FW or RW A NS

Goal. Conduct night, section Strike Coordination and Reconnaissance (SCAR) of a target area armed with PGMs. Target audience is an aircrew that has completed the 2000 phase syllabus and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on the application of proper AR/SCAR TTPs. Additional emphasis on search profiles and techniques, weapon to target match, asset to target match, target area tactics, delivery profiles and overall flight leadership to include a battlefield handover and the management of multiple assets within a single assigned area.

Requirement. Evaluated by a FLSE. FA-18D WSO brief/debrief event. Plan, brief, lead, and debrief a section SCAR mission in a designated area using PGMs. For completion, conduct a high altitude area search, an attack appropriate to the tactical situation, coordinate the use of another section of FW or RW aircraft as the SCAR, and conduct a battlefield handover. Be able to locate, plot, record, pass, and destroy targets IAW the TPL. Use all available planning tools to brief reactive weaponeering, carriage and release limitations, delivery profiles, and safe release/escape profiles. Brief TPOD search and acquisition techniques, offboard cueing sources, and time sensitive targeting (TST). React appropriately to tactical IR and RF surface-to-air threats. Execute coordinated attacks on targets of opportunity IAW TPL, PID, ROE, AGM, CDE, FSCMs, and assets available. Debrief asset management, profiles, delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Conduct visual/sensor reconnaissance of assigned area and detect targets.
Perform target attacks appropriate for scenario.
Minimize threat exposure and directs appropriate SACT.
Maintain situational awareness and mutual support of both wingman and other elements within the designated area.
Locate targets.
Direct coordinated section attacks.
Attack and destroy the correct target.
Adhere to tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6309.

Ordnance. 2 GBU-12/16/10, 1 GBU-38/32/31, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. MOA, RSTD, AA, AAR, TACTS, EW, (URBN TRG), LSR, STRAFE, TGT, HE, (HVY INERT), JDAM, LGB, EXP.

External Syllabus Support. One or more section of fixed wing and/or rotary wing as AR.

SL FLSE-6311 1.3 * 2 FA-18A/C/D A

Goal. Conduct a section close air support (CAS) mission using GP ordnance in support of the GCE. Target audience is an aircrew that has completed the AS-2300 stage and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on JCAS procedures (including all three types of control), JTAC integration, section mutual support, weapon to target match, system management, WASP planning, surface-to-air countertactics, and C3 information flow.

Requirement. Evaluated by a FLSE. Plan, brief, lead, and debrief a section CAS mission on a tactical range. For completion, conduct a minimum of three runs using either Type 1/2/3 control under the direction of a JTAC and/or FAC(A). Adhere to TACSOP, valid delivery profiles, min altitude, abort criteria and safe escape. Plan and brief delivery profiles with a min alt no lower than 3K'AGL for GP ordnance and 500' AGL for strafe. Discuss weapons delivery considerations IAW WASP planning. Brief deconfliction and flow IAW provided SPINS throughout the CAS environment. Demonstrate proficiency in weapons delivery and knowledge of all pertinent systems and how they apply to JCAS procedures. Debrief scenario, threat, TOS, and specific CAS missions to include a review of the 9 lines given, number of exposures, TOTs, weapons effectiveness and BHA. Debrief delivery safety and deconfliction. Evaluate flight leadership, and validate all deliveries.

Performance Standards

Comply with JCAS TTPs.
Comply with TAC abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

TOT +/- 15 secs.
Use effective communication IAW JCAS procedures to establish effective two-way information flow between ground units and CAS section.
Execute appropriate surface-to-air countertactics.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL FLSE-6304.

Ordnance. 4 Mk-82/83/84, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, AAR, EW, (URBN TRG), LSR, STRAFE, TGT, HE, (HVY INERT), EXP.

External Syllabus Support. JTAC and/or FAC(A).

SSL FLSE-6312 1.5 * 2 TOFT S NS

Goal. Demonstrate knowledge and proficiency in being able to teach and execute CAS TTP's specifically pertaining to bomb on target (BOT) and bomb on coordinate (BOC) procedures with both unguided and precision guided munitions. Target audience is an aircrew that has completed the AS-2300 stage and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on JCAS BOC/BOT procedures/requirements, proper system set up, and target area tactics/flow using all three types of terminal control.

Requirement. Evaluated by a FLSE. FA-18D WSO brief/debrief event. Plan, brief, lead, and debrief a section CAS mission. For completion, conduct a minimum of 7 runs: two runs Type 1 (one with and one without a TPOD), unguided ordnance or strafe; one run Type 2 BOC, unguided ordnance; one run Type 2 BOT, LGB (self lase); one run Type 2 BOC, LGB, JTAC/FAC(A) lase; one run Type 2 BOT, JDAM (POS REL); and one run Type 2 BOC, JDAM (POS ABS) under the direction of a JTAC and/or FAC(A). Adhere to TACSOP, valid delivery profiles, min altitude, abort criteria and safe escape. Plan and brief delivery profiles with a min alt no lower than 3K' AGL for GP ordnance and 500' AGL for strafe with appropriate weather and adjusted threat levels back up Z diagrams. Discuss weapons delivery considerations IAW WASP planning. Brief deconfliction and flow IAW provided SPINS throughout the CAS environment. Demonstrate proficiency in weapons delivery and knowledge of all pertinent systems and how they apply to JCAS procedures. Debrief scenario, threat, TOS, and specific CAS missions to include a review of the 9 lines given, number of exposures, TOTs, weapons effectiveness and BHA. Debrief delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Comply with JCAS TTPs.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

TOT +/- 15 secs.

Comply with TAC abort parameters.

Perform the proper system set up IAW the type attack assigned.

Use effective communication IAW JCAS procedures to establish

effective two-way information flow between ground units and CAS section.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6305, SSL FLSE-6307.

SSL-6313 1.5 * 2 TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute CAS TTP's in an urban environment. Target audience is an aircrew that has completed the AS-2300 stage and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on target acquisition, GRG use, holding and TPOD use, system setup/management, and employment considerations when inside of .1 Pi risk estimate distances.

Requirement. Plan, brief, lead, and debrief a section CAS mission on an urban complex. For completion, conduct a minimum of three runs using either Type 1/2/3 control under the direction of a JTAC and/or FAC(A). Adhere to TACSOP, valid delivery profiles, min altitude, abort criteria and safe escape. Plan and brief delivery profiles with a min alt no lower than 3K' AGL for unguided ordnance and 500' AGL for strafe. Discuss weapons delivery considerations IAW WASP planning. Brief deconfliction and flow IAW provided SPINS throughout the CAS environment. Demonstrate proficiency in GRG use, rover employment, weapons delivery, and knowledge of all pertinent systems and how they apply to JCAS procedures. Brief urban considerations to include laser spot size, placement and podium effect, pendulum effect, laser marksmanship, urban canyons, and weapon fuse settings and terminal parameters. Debrief scenario, threat, TOS, and specific CAS missions to include a review of the 9 lines given, number of exposures, TOTs, weapons effectiveness and BHA. Debrief delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Comply with JCAS TTPs.
Comply with tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
TOT +/- 15 secs.
Use effective communication IAW JCAS procedures to establish effective two-way information flow between ground units and CAS section.
Defend against surface-to-air threats.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL FLSE-6312.

SL-6314 1.3 * 2 FA-18A/C/D A NS

Goal. Conduct a night, section close air support (CAS) mission using precision guided munitions in support of the GCE. Target audience is an aircrew that is 2000 phase complete and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on JTAC integration, JCAS procedures

(including all three types of control), weapon to target match, system management, section mutual support, WASP planning, surface-to-air countertactics, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a section CAS mission on a tactical range that recovers via the night overhead break. For completion, conduct a minimum of 3 runs using either Type 1/2/3 control under the direction of a JTAC and/or FAC(A). Adhere to USMC FA-18 TACSOP, valid delivery profiles, min altitude, abort criteria and safe escape. Plan and brief delivery profiles with a back up LGB delivery using a min alt no lower than 5K' AGL and 500' AGL for strafe. Discuss weapons delivery considerations IAW WASP planning. Brief deconfliction and flow IAW provided SPINS throughout the CAS environment. Demonstrate proficiency in weapons delivery and knowledge of all pertinent systems and how they apply to JCAS procedures. Debrief scenario, threat, TOS, and specific CAS missions to include a review of the 9 lines given, number of exposures, TOTs, weapons effectiveness and BHA. Debrief delivery safety and deconfliction. Evaluate flight leadership and validate all deliveries.

Performance Standards

Comply with JCAS TTPs.

Comply with tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

TOT +/- 15 secs.

Use effective communication IAW JCAS procedures to establish effective two-way information flow between ground units and CAS section.

React to and direct section versus surface-air threats.

Draw valid learning points.

Provide effective flight leadership and direction

Prerequisite. SL-6306, SSL FLSE-6312.

Ordnance. 2 GBU-12/16, 1 GBU-38/32/31, 250 20mm, 40 Chaff/20 Flare.

Range Requirements. RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT) JDAM, LGB, EXP.

External Syllabus Support. JTAC or FAC(A)

SL-6315 1.3 * 2 FA-18A/C/D A

Goal. Conduct a lvl offensive BFM sortie vs a CAT 4 adversary. Target audience is aircrew that has just completed the SAA-2501 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on energy management and assessment, turn circle theory, LAR recognition, adherence to training rules, and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a lvl offensive BFM sortie that departs via a section take-off. For completion one SSD, one 9KO, one 6KO, and one 3KO is required. The PSL will brief all sets from the offensive perspective and must include C&D's, throttle, stick and rudder, target

airspeed, target G, alpha control, cockpit gouge/sight picture, LV placement, expendable use, and ACM modes. The flight will be flown with the PSL flying the offensive aircraft. A minimum of 15K' of maneuvering airspace is required with a hard deck no higher than 10K' AGL. The debrief will be primarily focused on evaluating the PSL's offensive BFM execution and shall include a review of start parameters (PADS), reconstruction via the white board and/or models, construction of valid learning points, game plan execution, and assessment and analysis of mission performance standards. The PSL shall also conduct a tape review to include each of the following items: safety of flight, flight leadership, setup, shot validation, airspeed control, alpha control, LV placement, deck transitions, weapons employment, and TCC.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute safely IAW OPNAV 3710 and training rules.
Maintain offensive position.
Employ follow on weapons.
Separate prior to becoming neutral.
Take valid shots.
Accurately recall and reconstruct using white board/models.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6301.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

SL-6316 1.3 * 2 FA-18A/C/D A

Goal. Conduct a 1vl defensive BFM sortie vs a CAT 4 adversary. Target audience is aircrew that has just completed the AA-2502 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on energy management and assessment, turn circle theory, WEZ recognition, expendables usage, adherence to training rules, and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a 1vl defensive BFM sortie that recovers simulating a NORDO wingman. For completion one SSD, one 9KD, one 6KD, and one 3KD is required. The PSL will brief all sets from the defensive perspective and must include C&D's, throttle, stick and rudder, target airseed, target G, alpha control, cockpit gouge/sight picture, LV placement, expendable use, and ACM modes. The flight will be flown with the PSL flying the defensive aircraft. A minimum of 15K' of maneuvering airspace is required with a hard deck no higher than 10K' AGL. The debrief will be primarily focused on evaluating the PSL's BFM execution and shall include a review of start parameters (PADS), reconstruction via the white board and/or models, construction of valid learning points, game plan execution, and assessment and analysis of mission performance standards. The PSL shall also conduct a tape review to include each of the following

items: safety of flight, flight leadership, setup, shot validation, airspeed control, alpha control, LV placement, expendable usage, bug mechanics, deck transitions, and TCC.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute safely IAW OPNAV 3710 and training rules.
Defeat initial weapons employment.
Maneuver to deny follow on WEZ.
Neutralize, separate, or kill the attacker.
Accurately recall and reconstruct using white board/models.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6315.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

SL-6317 1.3 * 2 FA-18A/C/D A

Goal. Conduct a lvl high aspect BFM sortie vs a CAT 4 adversary. Target audience is aircrew that has just completed the AA-2503 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on energy management and assessment, game plan development, offensive and defensive transition recognition, weapons employment, adherence to training rules, and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a lvl high aspect BFM sortie that recovers via the overhead break. For completion one flat, one roller, and one abeam set and one butterfly is required. The PSL will brief all sets from a CAT IV v CAT IV perspective with the exception of the flat scissors which may be briefed/conducted as a CAT 4 vs CAT 3, and must include C&D's, throttle, stick and rudder, target airspeed, target G, alpha control, cockpit gouge/sight picture, LV placement, expendable use, and ACM modes. A minimum of 15K' of maneuvering airspace is required with a hard deck no higher than 10K' AGL. The debrief will be primarily focused on evaluating the PSL's high aspect BFM execution and shall include a review of start parameters (PADS), reconstruction via the white board and/or models, construction of valid learning points, game plan execution and assessment, and analysis of mission performance standards. The PSL shall also conduct a tape review to include each of the following items: safety of flight, flight leadership, setup, game plan execution, shot validation, airspeed control, alpha control, LV placement, OOP maneuvering, expendable usage, controlling merges, bug mechanics, deck transitions, weapons employment, and TCC.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute safely IAW OPNAV 3710 and training rules.
Deny opponent weapon employment opportunities.
Achieve first weapons employment opportunity.

Gain positional advantage.
Employ follow-on weapons.
Transition to offensive or defensive BFM.
Separate or kill attacker.
Maneuver aircraft IAW the brief.
Accurately recall and reconstruct engagements.
Accurately recall and reconstruct using white board/models.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6316.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, EXP.

SL FLSE-6318 1.3 * 2 FA-18A/C/D A

Goal. Conduct a 1v1 BFM sortie vs a CAT 4 adversary that will include PADS for offensive, defensive and high aspect BFM to be assigned by the FLSE. Target audience is aircrew that has just completed the AA-2503 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on energy management and assessment, game plan development, offensive and defensive transition recognition, weapons employment, expendable usage, adherence to training rules, and overall flight leadership.

Requirement. Evaluated by a FLSE. Plan, brief, lead, and debrief a 1v1 high aspect BFM sortie. For completion one SSD, one flat or roller, two offensive or defensive sets, and one abeam set or butterfly is required. The PSL will brief either offensive or defensive sets as assigned by the FLSE. The PSL will brief all sets from a CAT 4 v CAT 4 perspective (the only exception to this may be the flat scissors which may be briefed/conducted as a CAT 4 v CAT 3) and must include C&D's, throttle, stick and rudder, target airspeed, target G, alpha control, cockpit gouge/sight picture, LV placement, expendable use, and ACM modes. The PSL will fly one perch set offensively and one defensively. A minimum of 15K' of maneuvering airspace is required with a hard deck no higher than 10K' AGL. The debrief will be primarily focused on evaluating the PSL's BFM execution, and shall include a review of start parameters (PADS), reconstruction via the white board and/or models, construction of valid learning points, game plan execution and assessment and analysis of mission performance standards. The PSL shall also conduct a tape review to include each of the following items: safety of flight, flight leadership, setup, game plan execution, shot validation, airspeed control, alpha control, LV placement, OOP maneuvering, expendable usage, controlling merges, bug mechanics, deck transitions, weapons employment, and TCC.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute safely IAW OPNAV 3710 and training rules.
Deny opponent weapon employment opportunities.
Achieve first weapons employment opportunity.
Gain positional advantage.

Employ follow-on weapons.
Transition to offensive or defensive BFM.
Separate or kill attacker.
Maneuver aircraft IAW the brief.
Accurately recall and reconstruct engagements.
Accurately recall and reconstruct using white board/models.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6317.

Ordnance. CATM-9X, .40 Chaff/20 Flare.

Range Requirements. AA, EXP.

SSL-6319 1.5 * 2 TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute a section VID sortie against maneuvering and non-maneuvering SAR-1/IR-3 adversaries. Target audience is aircrew that has just completed the AA-2509 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on 3D geometry, radar mech, notch mechanics, VID sort, merge mech, fighter deconfliction, proper VID execution, and comm.

Requirement. Plan, brief, lead, and debrief a section VID sortie. For completion six reactive VIDs are required. The PSL will brief the reactive VID game plan IAW current weapon school recommendations with the emphasis on proper radar mech, PHID indications, deconfliction, notch mech, 3D geometry, proper comm and weapons employment. At least one run will be conducted at low altitude (below 3K' AGL); one run the adversaries will be unaware, one run will be RWR deficient, and on two runs the adversaries will maneuver. For all runs the adversaries will remain a single sortable group. After each run the sim will be paused while the PSL discusses the run and highlights discussion points to be captured in the debrief. The debrief will focus primarily on evaluating the items identified on each run, deconfliction, flight leadership and shot validation.

Performance Standards

Utilize clear and concise comm IAW ALSA comm brevity.
Achieve a radar sort.
Maintain mutual support.
Execute a reactive VID game plan.
Achieve a valid shot at the merge.
Deny opponent weapon employment opportunities.
Accurately ID the threat with available systems.
Accurately recall and reconstruct using white board and/or BDS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL FLSE-6318.

SL FLSE-6320 1.3 * 2 FA-18A/C/D 2 DISS ADV A

Goal. Conduct a 2v2 VID/SEM sortie against two SAR-1/IR-3, CAT 3 or 4, dissimilar, maneuvering adversaries. Target

audience is aircrew that has just completed the AA-2505 and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on 2v1 and 2vX SEM principles and execution while reviewing basic VID fundamentals as well as overall flight leadership.

Requirement. Evaluated by FLSE. Plan, brief, lead, and debrief a section VID/SEM sortie that recovers via a section landing. For completion one reactive VID and two 2v2 visual sets from the abeam and stern set up. The PSL will brief deconfliction and the basic reactive VID game plan but will focus primarily on the principles of SEM. Brief shall include C&D's and differences between 2v1 and 2vX SEM execution, approaching the merge, merge geometry, VID and visual sort, out of plane and phase maneuvering, comm priorities, assumptions, deconfliction ROT, roles of the fighters, extension criteria, and clearing the merge. For the VID run the adversaries will remain a single sortable group. A minimum of 15K' of maneuvering airspace is required with a maximum hard deck of 15K' AGL. Using a 15K' AGL hard deck may not satisfy the performance standards of the mission. The debrief shall be comprised of a fighter element scrub, mass whiteboard debrief, fighter debrief and tape review. The fighter debrief and tape review shall cover: safety of flight, flight leadership, mission objectives, analyze mission performance standards, game plan execution/assessment, comm review (can be covered simultaneously with the rest of the debrief), radar mechanics, VID mechanics, reactive missile defense, shot validation, expendables usage, merge mechanics, weapons employment, TCC, and mutual support.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Execute safely IAW OPNAV 3710 and training rules.
Utilize clear and concise comm IAW ALSA comm brevity.
Achieve a radar sort.
Maintain mutual support.
Execute briefed VID game plan.
Achieve a valid shot at the merge.
Deny opponent weapon employment opportunities.
Effective coordinated section engaged maneuvering.
Accurately recall and reconstruct using white board.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6319.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, EXP.

External Syllabus Support. Two dissimilar adversaries.

SL-6321 1.3 * 2 FA-18A/C/D 3+ (DISS) ADV A

Goal. Conduct a 2vX OCA (Sweep) against an unknown number of SAR-1/IR-3 adversaries. Target audience is AA-2500 stage complete who is familiar with the USMC FA-18 ADMIN SOP and

TACSOP. Emphasis will be placed on flow requirements, timeline awareness, commit and reset criteria, targeting, maneuvering mechanics, MIDS operations, weapons employment, merge mechanics and overall flight leadership while executing a DTD and/or NTD game plan.

Requirement. Plan, brief, lead, and debrief a section OCA, sweep. Adversaries shall be tasked at level 3 or 4 and at least one three group problem is required. Brief will focus on the mission planning factors, phases of the intercept, targeting, maneuvering target mech, electronic attack, and defensive considerations using a SAR-1 MOR timeline for DTD and/or SAR-1 basic timeline for NTD tactics. PHID should be briefed to allow onboard autonomous ID. Flight will use AIC, RTO, and separate frequencies if available. A minimum of 15K' of maneuvering airspace is required. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face to face with red air to max extent possible. The fighter debrief and tape review will evaluate safety of flight, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL FLSE-6320.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, TACTS, EXP.

External Syllabus Support. Three or more (dissimilar) adversaries, AIC, RTO.

SSL FLSE-6322 1.5 * 2 TOFT S

Goal. Demonstrate knowledge and proficiency in teaching and executing a 2vX DCA (Point Defense) mission against a SAR-2/AR-1/IR-3 threat. Target audience is AA-2500 stage complete and is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on DEZ/JEZ planning and management, timeline awareness, commit and reset criteria, targeting, maneuvering target mech, MIDS, on-board PHID, weapons employment and overall flight leadership while executing an FT game plan.

Requirement. Evaluated by FLSE. Plan, brief, lead, and debrief a section point defense. At least two, three group problems are required. The brief will focus on mission planning factors, FT fundamentals, targeting, timeline, maneuvering mech, tether management, electronic attack, and defensive considerations using a SAR-2/AR-1 MOR timeline. Scenarios should force fighter to a flow required mindset if pushed to the back of their DEZ. PHID should be briefed to allow onboard autonomous ID. The flight should be run using two continuous defined vults vice individual runs. After each vul the PSL should verbally recall the events and identify pertinent discussion points for the debrief. Debrief should be conducted using the BDS and should focus on the points identified by each run. The debrief will include an evaluation of targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards and mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL FLSE-6320.

SSL-6323 1.5 * 2 TOFT S

Goal. Conduct a low altitude, unguided ordnance Air Interdiction mission vs unknown number of SAR-1/IR-3 adversaries. Target audience is 2000 phase complete who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on strike route planning, WASP planning, weaponeering, tactical decision making, target acquisition and destruction, threat countertactics, and overall flight leadership. Additional emphasis will be placed on terrain clearance tasks, fuel management, route timing, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a low altitude strike against a target protected by IADS with unguided ordnance. For completion, four target attacks that include a complete ingress and egress from the target area. TOT should be within a two minute notional SEAD window for strike route timing. Brief will focus on the mission planning factors, route planning, ordnance requirements for mission accomplishment, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DMPI acquisition, ordnance employment, BHA, and surface-to-air countertactics. PHID should be briefed to allow onboard autonomous ID. After each run the PSL should verbally recall the events and identify pertinent discussion points for the

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debrief. Debrief should be conducted using the BDS and should focus on the points identified by each run. The debrief will evaluate ordnance delivery, effectiveness, DMPI acquisition, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, weapons employment, weapons employment validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.

Effective targeting/retargeting.

Tactical decision making IAW mission objectives.

Accurately recall and reconstruct using whiteboard/BDS.

Deliver weapons on planned DMPI.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Take valid shots.

Maintain mutual support.

Draw valid learning points.

Provide effective flight leadership and direction.

Prerequisite. SSL FLSE-6322.

SL FLSE-6324 1.3 * 2 FA-18A/C/D 2+ ADV A

Goal. Conduct a low altitude, unguided ordnance Air Interdiction mission vs an unknown number of SAR-1/IR-3 adversaries. Target audience is 2000 phase complete who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on strike route planning, WASP planning, weaponeering, tactical decision making, target acquisition and destruction, threat countertactics, and overall flight leadership. Additional emphasis will be placed on terrain clearance tasks, fuel management, route timing, and C3 information flow.

Requirement. Evaluated by a FLSE. FA-18D WSO brief/debrief event. Plan, brief, lead, and debrief a low altitude strike against a target protected by IADS with unguided ordnance. For completion, the flight must successfully attack and achieve desired P_o against a given target. TOT should be within a two-minute notional SEAD window for strike route timing. Brief will focus on the mission planning factors, ordnance requirements for mission accomplishment, route planning, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DMPI acquisition, ordnance employment, BHA, and surface-to-air countertactics. Adversaries should be tasked as level 2 or 3 with no greater than 2 group problems with a PHID not satisfied option off target. PHID should be briefed to allow onboard autonomous ID. Debrief should be conducted using TACTS/TCTS playback and should include a face-to-face red air debrief to the maximum extent possible. The fighter debrief and tape review will cover safety of flight, ordnance delivery & effectiveness, DMPI acquisition, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, weapons employment, weapons

employment validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.
Effective targeting/retargeting.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Deliver weapons on planned DMPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.
Maintain mutual support.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SSL-6323.

Ordnance. 4 MK-82/83/84 or 6 MK-76/BDU-48, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. MOA, RSTD, MTR, LAT, AA, MACH 1+, AAR, TACTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), EXP.

External Syllabus Support. Two or more (dissimilar) Adversaries, AIC, RTO.

SSL-6325 1.5 * 2 TOFT S NS

Goal. Demonstrate knowledge and proficiency in being able to teach and execute a night high altitude, JDAM Air Interdiction mission against an unknown number of SAR-1/IR-3 adversaries. Target audience is 2000 phase complete who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on strike route planning, WASP planning, weaponing, timeline awareness, tactical decision making, target acquisition and destruction, threat countertactics, and overall flight leadership. Additional emphasis will be placed on, fuel management, route timing, BHA, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a night, high altitude strike against a target protected by IADS with JDAM. For completion, the flight must successfully attack and achieve desired P_D against a given target. TOT should be within a two-minute notional SEAD window for strike route timing. Brief will focus on the mission planning factors, ordnance required for mission accomplishment, route planning, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DPI acquisition, ordnance employment, BHA, and surface-to-air countertactics. Adversaries should be tasked as level 2 or 3 with no greater than 2 group problems. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face to face with red air to max extent possible. The fighter debrief and tape review will evaluate safety of flight, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications,

defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.

Effective targeting/retargeting.

Tactical decision making IAW mission objectives.

Accurately recall and reconstruct using TACTS/TCTS.

Deliver weapons on planned DPI.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Takes valid shots.

Maintain mutual support.

Draw valid learning points.

Provide effective flight leadership and direction.

Prerequisite. SSL-6323.

SL CHECK-6326 1.3 * R 2 FA-18A/C/D vs. 2 ADV A NS

Goal. Conduct a night, high altitude, LGB Air Interdiction mission against an unknown number of SAR-1/IR-3 adversaries. Target audience is 2000 phase complete who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on route planning, WASP planning, weaponeering, tactical decision making, timeline awareness, target acquisition and destruction, threat countertactics, and overall flight leadership. Additional emphasis will be placed on fuel management, route timing, BHA, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a night, high altitude strike against a target protected by IADS with LGBs. For completion, the flight must successfully attack and achieve desired Pd against a given target. TOT should be within a two-minute notional SEAD window for strike route timing. Brief will focus on the mission planning factors, ordnance requirements to accomplish mission, route planning, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DPI acquisition, TPOD employment, laser marksmanship, laser deconfliction, ordnance employment, BHA, and surface-to-air countertactics. Adversaries should be tasked as level 2 or 3 with no greater than 2 group problems. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face to face with red air to max extent possible. The fighter debrief and tape review will cover safety of flight, ordnance delivery and effectiveness, DPI acquisition, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.

Effective targeting/retargeting.

Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Deliver weapons on planned DPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.
Maintain mutual support.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6301 through 6325, ACPM-8630, 8660.

Ordnance. 2 GBU-12/16 or 2 LGTR, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, AAR, TACTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), LGB, EXP.

External Syllabus Support. Two or more (dissimilar) Adversaries, AIC, RTO.

6. Division Leader Standardization and Designation (DL)

a. Purpose. To prepare and evaluate the prospective division leader's ability to plan, brief, execute and lead a mission-oriented event as a division leader.

b. Background. The removal of the ACTI and NSI programs place additional instructional and ORM requirements on division leaders. For this reason the DL syllabus was re-built in order to produce division leaders that have been exposed to more in depth rigor in tactics and flight leadership standardization via the resident MATSS FLSE staff. The requirements for each flight as well as the FLSE requirements on certain flights will prepare the PDL to provide the level of instruction, standardization, risk management required for 2000/3000 phase T&R training. Additionally the program was re-written assuming that when a PDL begins the evaluated syllabus outlined below, they will have already had some experience leading sections administratively.

c. General

(1) Prospective division leaders (PDL) shall have a minimum of 400 hours in model, 600 hours total, and have flown a minimum of three flights as a designated section leader. There is no division leader equivalent for WSOs. WSOs are required to complete all academics and simulator (SDL-6403) prior to beginning their mission commander workup.

(2) Aircrew who retain a Division Leader designation prior to the new T&R syllabus outlined below must complete a conversion syllabus prior to any flight leadership flights. This conversion syllabus will ensure that Division Leaders who have not attained their designation under the present construct get the required events to mitigate ORM concerns and provide them with the appropriate level of flight leadership to conduct specific sorties. The following matrix provides guidance on the events that need to be completed:

1. SIM NS low pops/strafe evaluated by a NSI or Division Leader (new T&R construct 3500.50A).
2. SIM 2/4vX evaluated by an ACTI or Division Leader (new T&R construct 3500.50A).
3. BFM briefing lab evaluated by an ACTI or Division Leader (new T&R construct 3500.50A).
1. SIM NS low pops/strafe evaluated by a NSI or Division Leader (new T&R construct 3500.50A).
1. SIM 2/4vX evaluated by an ACTI or Division Leader (new T&R construct 3500.50A).
2. BFM briefing lab evaluated by an ACTI or Division Leader (new T&R construct 3500.50A).

These are the minimum required events for conversion to be a Division Leader under the new T&R construct. Additional events to foster a solid understanding of NS and BFM/ACM concepts and execution may be required and are at the discretion of the commanding officer. These events must be documented and placed in the APR and NATOPS jacket.

(3) To the greatest extent possible, PDLs should conduct the following day and night syllabus sorties in order. All DL events shall be evaluated by a designated mission commander. Three specific DL events (labeled DL FLSE) shall be evaluated by a standardized, MAG CO designated, FLSE assigned by the MATSS OIC from outside of the squadron. A WSO FLSE may evaluate any pilot FLSE event when crewed with a non-FLSE pilot one designation higher than the pilot under instruction.

(4) The DL evaluator will use the sortie requirement accomplishment criterion (mission performance standards) to determine whether the PDL completed the sortie. The PDL will use the performance standards to debrief the flight. All simulator events will include full mission briefs (excluding admin) for a duration of not less than 1 hour.

(5) Completion of the DL syllabus meets the requirements for designation as division leader. At the discretion of the squadron commanding officer, a letter designating the pilot as division leader shall be placed in the NATOPS jacket and APR. Re-designation for aircrew that do not require Core Skill Introduction Refresher training is at the discretion of the commanding officer. For aircrew that require Refresher training, the minimum re-designation requirement is successful completion of the R-coded events.

(6) Aircraft should be configured with operable VTR/CVRS, ALQ-126B, ALR-67, KY-58, TPOD, MIDS, CIT, DCS/VMF, LST, and TACTS/TCTS pods, and chaff/flare.

d. Academic Training. Academic training shall be conducted IAW FA-18 Course Catalog.

e. Administrative Flight Requirements. Administrative flight requirements are to be performed on the flights assigned below. If the requirements can not be accomplished on the designated flight (weather, runway, etc.) it shall be completed prior to the DL-6408.

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ADMIN FLT LEADERSHIP REQ.	FLIGHT
LEAD DIV. RDR TRAIL	DL-6404
LEAD OVERHEAD BREAK	DL-6404
LEAD SIM NORDO APPROACH	DL-6402
LEAD SIM HUNG ORD APP	DL-6406
LEAD STRT IN FLT LD SEP	DL-6402
LEAD OVERHEAD BREAK - NT	DL-6408
LEAD STRT IN FLT LD SEP - NT	DL-6406

d. Flight and Simulator Event Training. (8 Events, 10.8 Hours).

DL FLSE-6401 1.3 * 2 FA-18A/C/D 2 DISS ADV A

Goal. Conduct a 2v2 VID/SEM sortie against two SAR-1/IR-3, CAT 3 or 4, dissimilar, maneuvering adversaries. Target audience is AA-2505 complete who is familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on 2v1 and 2vX SEM principles and execution while reviewing basic VID fundamentals as well as overall flight leadership.

Requirement. Evaluated by a FLSE. Plan, brief, lead, and debrief a section VID/SEM sortie. For completion one reactive VID and two 2v2 visual sets from the abeam and stern set up. The PDL will brief deconfliction and the basic reactive VID game plan but will focus primarily on the principles of SEM. Brief shall include C&Ds and differences between 2v1 and 2vX SEM execution, approaching the merge, merge geometry, VID and visual sort, out of plane and phase maneuvering, comm priorities, assumptions, deconfliction ROT, roles of the fighters, extension criteria, and clearing the merge. For the VID run the adversaries will remain a single sortable group. A minimum of 15K' of maneuvering airspace is required with a maximum hard deck of 15K' AGL. Using a 15K' AGL hard deck may not satisfy the performance standards of the mission. The debrief will be comprised of a fighter element scrub, mass whiteboard debrief, fighter debrief and tape review. The fighter debrief and tape review shall cover: safety of flight, flight leadership, mission objectives, analyze mission performance standards, game plan execution/assessment, comm review (can be covered simultaneously with the rest of the debrief), radar mechanics, VID mechanics, reactive missile defense, shot validation, expendables usage, merge mechanics, weapons employment, TCC, and mutual support.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
 Execute proper admin and tac admin procedures.
 Execute safely IAW OPNAV 3710 and training rules.
 Utilize clear and concise comm IAW ALSA comm brevity.
 Achieve a radar sort.
 Maintain mutual support.
 Execute briefed VID game plan.
 Achieve a valid shot at the merge.
 Deny opponent weapon employment opportunities.
 Effective coordinated section engaged maneuvering.
 Accurately recall and reconstruct using white board.

Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SL-6326.

Ordnance. CATM-9X, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, EXP.

External Syllabus Support. Two dissimilar adversaries.

DL-6402

1.3 * 4 FA-18A/C/D 3+ ADV A

Goal. Conduct a 4vX OCA (Sweep) against an unknown number of SAR-2/AR-1/IR-3 adversaries. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on flow, commit and reset criteria, targeting, maneuvering mech, on/offboard PHID, EA, weapons employment and overall flight leadership while executing a DTD game plan.

Requirement. Plan, brief, lead, and debrief a division OCA that recovers via a visual straight in with one wingman simulated NORDO. Adversaries shall be tasked level 3 or 4 and at least one three group problem is required. Brief will focus on the mission planning factors, DTD fundamentals, timeline awareness, tether management, targeting, maneuvering target mech, electronic attack and defensive considerations using a MOR timeline, DTD tactics. Flight will use AIC, RTO, and separate frequencies if available. A minimum of 15K' of maneuvering airspace is required. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face to face with red air to max extent possible. The fighter debrief and tape review will evaluate safety of flight, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. DL FLSE-6401.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, TACTS, EW, EXP.

External Syllabus Support. Three or more (dissimilar)
Adversaries, AIC, RTO.

SDL-6403 1.5 * 4 TOFT S NS

Goal. Demonstrate knowledge and proficiency in being able to teach and execute a night 4vX DCA (Point Defense) against unknown number of SAR-2/AR-1/IR-3 adversaries. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on night considerations, DEZ planning and management, commit and reset criteria, targeting, maneuvering mech, on/offboard PHID, weapons employment. Game plan will be to use DTD.

Requirement. Plan, brief, lead, and debrief a division DCA DTD using a FEZ/MEZ. At least two, three group problems are required. Brief will focus on the mission planning factors, DTD fundamentals, targeting, timeline awareness, tether management, maneuvering target mech, electronic attack and defensive considerations using a MOR timeline, DTD tactics. VID game plan shall be briefed as a decoy. PHID should be briefed to allow onboard autonomous ID. The flight should be run using two defined vuls (20 mins). After each vul the PDL will verbally recall the events and identify the pertinent learning points to discuss in the debrief. Debrief should be conducted using BDS and should focus on the learning points identified post each run. Debrief will include an evaluation of targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards and mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. DL FLSE-6402.

DL FLSE-6404 1.3 * 4 FA-18A/C/D 3+ ADV A

Goal. Conduct a 4vX DCA (Point Defense) against unknown number of SAR-2/AR-1/ IR-3 adversaries. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on DEZ planning and management, timeline awareness, commit and reset criteria, targeting, maneuvering mech, on/offboard PHID, EA, weapons employment and overall flight leadership while executing a DTD game plan.

Requirement. Evaluated by FLSE. Plan, brief, lead, and debrief a division area DCA using a FEZ/MEZ. Adversaries

shall be tasked at level 3 or 4 and at least one three group problem is required. Brief will focus on the mission planning factors, DTD fundamentals, targeting, tether management, timeline awareness, maneuvering targeting mech, electronic attack and defensive considerations using a MOR timeline, DTD tactics. VID game plan shall be briefed based on flow mindset. PHID should be briefed to allow onboard autonomous ID. Flight will use AIC, RTO, and separate frequencies if available. A minimum of 15K' of maneuvering airspace is required. The flight should be run using one continuous defined vul. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face-to-face with red air to max extent possible. The fighter debrief and tape review will evaluate safety of flight, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. SDL-6403.

Ordinance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, TACTS, EW, EXP.

External Syllabus Support. Three or more (dissimilar) adversaries, AIC, RTO.

SDL FLSE-6405 1.5 * 4 TOFT S

Goal. Demonstrate knowledge and proficiency in being able to teach and execute 4vX DCA (Point Defense) mission against an unknown number of SAR-2/AR-1/IR-3 adversaries. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on JEZ planning and management, commit and reset criteria, targeting, timeline awareness, maneuvering mech, on/offboard PHID, EA, weapons employment and overall flight leadership while executing a FT game plan.

Requirement. Evaluated by FLSE. Plan, brief, lead, and debrief a division DCA using a JEZ. At least two three group problems are required. Brief will focus on the mission planning factors, DTD fundamentals, timeline awareness, tether management, targeting, maneuvering mech, electronic attack, and defensive considerations using a MOR timeline, FT tactics.

VID game plan shall be briefed as a decoy. PHID should be briefed to allow onboard autonomous ID. The flight should be run using two defined vuls (20 mins). After each vul the PDL will verbally recall the events and identify the pertinent learning points to discuss in the debrief. Debrief should be conducted using BDS and should focus on the learning points identified post each run. Debrief shall include an evaluation of targeting/tactical decision making, radar mech, timeline awareness, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards and mission accomplishment and overall flight leadership.

Performance Standards

Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Recognize threat tactics.
Take valid shots.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. DL FLSE-6404.

DL-6406 1.3 * 4 FA-18A/C/D A NS

Goal. Conduct coordinated division pop attacks and strafe on a raked range. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis shall be placed on night employment, planning pop and strafe delivery profiles (Z-diagrams), pattern flow, ordnance delivery mechanics, frag avoidance, deconfliction and overall flight leadership.

Requirement. Plan, brief, lead, and debrief a night division ordnance delivery sortie to a raked range that recovers via a visual straight-in with an aircraft simulating hung ordnance. Four division low or high drag deliveries and two strafe runs are required for completion of this event. The first two deliveries shall be as singles, the second two deliveries shall be as sections. Use of WASP is required to produce valid delivery profiles. One delivery profile for the low and/or high drag ordnance with a min alt no lower than 500' AGL and 3K' AGL respectively; one med angle strafe profiles with a min alt no lower than 700' AGL. Brief carriage and release, MRI, stick length, valid delivery and abort considerations for a notional live ordnance load in addition to actual loadout. A detailed brief of division target area tactics and deconfliction required. Debrief pattern, delivery safety and deconfliction, evaluate flight leadership and validate all deliveries.

Performance Standards

Brief and comply with USMC FA-18 ADMIN SOP and TACSOP.
Execute proper admin and tac admin procedures.
Adhere to tactical abort parameters.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Maintain briefed pattern deconfliction IAW range regulations, training rules, and environmental conditions.
Maintain safety awareness of wingman's delivery parameters.
Draw valid learning points.
Provide effective flight leadership and direction.

Ordnance. 4 BDU-45, 250 20mm, 40 Chaff/20 Flare.

Prerequisite. DL-6405.

Range Requirements. RSTD, LAT, RKD RNG, LSR, WISS, STRAFE, TGT, HVY INERT, EXP.

DL-6407 1.3 * 4 FA-18A/C/D vs. 2+ ADV A

Goal. Conduct a low altitude, division, Air Interdiction mission against an unknown number of SAR-1/IR-3 adversaries. Target audience is 2000 phase complete. Emphasis will be placed on strike route planning, WASP planning, tactical decision making, target acquisition and destructions, timeline awareness, threat countertactics, and overall flight leadership. Additional emphasis will be placed on terrain clearance tasks, fuel management, route timing, BHA, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a low altitude strike against a target protected by IADS with unguided ordnance that recovers via the overhead break. For completion, the flight must successfully attack and achieve desired Pd against a given target. TOT should coincide with a preplanned SEAD window based mission planning factors provided by the FLSE. Brief will focus on the mission planning factors, strike-fighter route planning, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DMPI acquisition, ordnance employment, BHA, and surface to air counter-tactics. Adversaries should be tasked as level 2 or 3 with no greater than two group problems. Debrief should be conducted using TACTS/TCTS playback and should include a face-to-face red air debrief to the maximum extent possible. The fighter debrief shall include a tape review and will evaluate safety of flight, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, target acquisition, weapons employment, shot and ordnance delivery validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.
Effective targeting/retargeting.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using TACTS/TCTS.
Deliver weapons on planned DMPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.

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Maintain mutual support.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. DL-6406.

Ordnance. 2 MK-82/83/84 or 6 MK-76 and/or BDU-48, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. MOA, RSTD, MTR, LAT, AA, MACH 1+, AAR, TACTS, EW, LSR, TGT, HE, (HVY INERT), (LGB), EXP.

External Syllabus Support. Two or more (dissimilar) adversaries, AIC, RTO.

DL CHECK-6408 1.3 * R 4 FA-18A/C/D vs. 2+ ADV A NS

Goal. Conduct a medium to high altitude, night, division, PGM Air Interdiction mission against an unknown number of SAR-1/IR-3 adversaries and an integrated air defense system. Target audience is 2000 phase complete who are familiar with the USMC FA-18 ADMIN SOP and TACSOP. Emphasis will be placed on strike route planning, weaponeering, SEAD mission planning, tactical decision making, target acquisition and destruction, threat counter tactics, and overall flight leadership. Additional emphasis will be placed on fuel management, route timing, BHA, and C3 information flow.

Requirement. Plan, brief, lead, and debrief a medium to high altitude strike against a target protected by IADS with LGBs and/or JDAM. For completion, the flight must successfully attack and achieve desired P_b against a given target. TOT should coincide with a preplanned SEAD window based on mission planning factors. Brief will focus on the mission planning factors, ordnance required to accomplish the mission, route planning, differences in flow desired (inbound) and flow required (off target), target area tactics/deconfliction, DPI acquisition, ordnance employment, BHA, and surface-to-air countertactics. Adversaries should be tasked as level 2 or 3 with no more than two group problems. The debrief will be comprised of a fighter element scrub, mass TACTS/TCTS debrief, fighter debrief and tape review. The mass debrief should be face to face with red air to max extent possible. The fighter debrief and tape review will cover safety of flight, ordnance delivery & effectiveness, DPI acquisition, targeting/tactical decision making, timeline awareness, radar mech, comm, PHID indications, RWR indications, EA indications, defensive considerations, shot validation, mission performance standards, mission accomplishment and overall flight leadership.

Performance Standards

Recognize and react appropriately to both surface-to-air and air-to-air threats.

Effective targeting/retargeting.

Tactical decision making IAW mission objectives.

Accurately recall and reconstruct using TACTS/TCTS.

Deliver weapons on planned DPI.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.

Take valid shots.
Maintain mutual support.
Draw valid learning points.
Provide effective flight leadership and direction.

Prerequisite. DL-6407, ACPM-8640, 8641.

Ordnance. 2 GBU-10/12/16 or 2 LGTRS and/or 2 GBU 31/32/38, CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, MACH 1+, AAR, TACTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), (JDAM), (LGB), EXP.

External Syllabus Support. Two or more (dissimilar) adversaries, AIC, RTO.

7. Mission Commander Standardization and Designation (MC)

a. Purpose. To prepare and evaluate the prospective mission commander's ability to plan, brief and lead an event as a mission commander.

b. General

(1) Prospective Mission Commanders (PMC) shall have a minimum of 500 hours in type, have flown a minimum of three flights as a designated division leader (pilots only). PMC WSOs shall have 500 hours in type, have completed the entire section leader flight syllabus and division leader academics and simulator event. When feasible, pilot and WSO mission commander T&R events should be completed separately. When events are completed as a crew, the briefing and debriefing responsibilities shall be split equally between the pilot and WSO. Pilot and WSO crews shall change briefing and debriefing responsibilities between the three mission commander events.

(2) To the greatest extent possible, PMCs should conduct the following day and night syllabus sorties in order. All MC events shall be evaluated by a designated WTI, NSAWC Airwing Strike Lead, or squadron commanding officer. One specific MC event (labeled MC FLSE) shall be evaluated by a FLSE.

(3) The MC evaluator will use the sortie requirement accomplishment criterion to determine whether the PMC completed the sortie. The PMC will use the performance standards to debrief the flight.

(4) Completion of the MC syllabus meets the requirements for designation as a mission commander. At the discretion of the squadron commanding officer, a letter designating the aircrew as a mission commander shall be placed in the NATOPS jacket and APR. Re-designation for aircrew that do not require Core Skill Introduction Refresher training is at the discretion of the commanding officer. For aircrew that require Refresher training, the minimum re-designation requirement is successful completion of the R-coded events.

(5) Aircraft should be configured with operable VTR/CVRS, ALQ-126B, ALR-67, KY-58, TPOD, CIT, MIDS, DCS/VMF, and LST when required.

d. Flight and Simulator Event Training. (3 Events, 3.9 Hours).

MC-6501 1.3 * 6+ Blue a/c vs. 4+ (DISS) Adversary A (NS)

Goal. Conduct an Air Defense mission of defended assets for a continuous defined vul period. Emphasis shall be placed on

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coordinating mission planning, asset integration, information flow, cap management, ROE, PHID, and overall mission accomplishment.

Requirement. Plan, brief, lead, and debrief an Air Defense mission against an unknown number of adversaries. Incorporate AC2W, ground-based air defense, air-refueling, and multiple fighter elements in the mission planning to achieve a cohesive defense of the defended assets. Adversaries present a level 3 or 4 adversary simulation IAW the TACSOP. Fighter weapons control status is tight with ROE and PHID criteria set by the mission commander during mission planning according to theater of operation. Incorporate missile and fighter engagement zones as appropriate. Conduct the mass brief and the FA-18 fighter brief. Conduct the mass debrief. Draw valid learning points.

Performance Standards

Supervise mission planning IOT ensure a timely and tactically sound plan.

Effectively act as CAP manager.

Effectively and safely lead a FA-18 division.

Decision-making and communications directs and coordinates blue fighters and agencies to accomplish the mission.

Manage fallouts, alibis, and exceptions.

Debrief relevant learning points from all participants.

Accurately assess mission success or failure.

Make effective recommendations to improve overall mission performance.

Prerequisite. DL CHECK-6408.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, TACTS, EXP, MACH 1+.

External Syllabus Support. AIC, four or more (dissimilar) adversaries. Tanker support preferred.

MC FLSE-6502

1.3 * 6+ Blue a/c vs. 4+ (DISS) Adversary A

Goal. Conduct a day Air Interdiction Large Force Exercise. Emphasis shall be placed on coordinating mission planning, airborne decision-making, asset management and integration, and control of multiple aircraft elements and agencies.

Requirement. Evaluated by FLSE. Plan, brief, lead, and debrief an Air Interdiction Large Force Exercise as a mission commander. Incorporate multiple blue air fighter, SEAD, EW, and strike elements. Lead the FA-18 strike element. Adversaries present a level 3 or 4 adversary simulation IAW the TACSOP. Conduct the mass brief and the FA-18 fighter brief. Conduct the mass debrief. Draw valid learning points.

Performance Standards

Supervise mission planning IOT ensure a timely and tactically sound plan under a constrained timeline.

Effectively and safely lead and direct the strike package.

Manage fallouts, alibis, and exceptions.

Draw out and brief relevant learning points from all participants.

Accurately assess mission success or failure.
Make effective recommendations to improve overall mission performance.

Prerequisite. DL CHECK-6408.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, TACTS, EXP, EW.

External Syllabus Support. AIC, four or more blue fighters, four or more (dissimilar) adversaries, two SEAD aircraft preferred, one electronic attack aircraft preferred, tanker support preferred.

MC CHECK-6503 1.3 * R 6+ Blue a/c vs. 4+ (DISS) Adversary A NS

Goal. Conduct a night Air Interdiction Large Force Exercise. Emphasis shall be placed on coordinating mission planning, airborne decision-making, asset management and integration, and control of multiple aircraft elements and agencies.

Requirement. Plan, brief, lead, and debrief an Air Interdiction Large Force Exercise as a mission commander. Incorporate multiple blue air fighter, SEAD, EW, and strike elements. Lead the FA-18 strike element. Adversaries present a level 3 or 4 adversary simulation IAW the TACSOP. Conduct the mass brief and the FA-18 fighter brief. Conduct the mass debrief. Draw valid learning points.

Performance Standards

Supervise mission planning IOT ensure a timely and tactically sound plan under a constrained timeline.
Effectively and safely lead and direct the entire strike package.
Manage fallouts, alibis, and exceptions.
Debrief relevant learning points from all participants.
Accurately assess mission success or failure.
Make effective recommendations to improve overall mission performance.

Prerequisite. MC-6501, FLSE-6502, ACPM-8620.

Ordnance. CATM-9X, CATM-7/120, 40 Chaff/20 Flare.

Range Requirements. AA, EXP, TACTS, TGT, LGB, TGT-DISP.

External Syllabus Support. AIC, four or more blue fighters, four or more (dissimilar) adversaries, two SEAD aircraft, one electronic attack aircraft preferred, tanker support preferred.

8. Weapons School Graduate Instructor (INST)

a. Purpose. To track completion of Weapons Schools and designation as graduate instructors.

b. General. Letters from the squadron commanding officer awarding the these designations shall be placed in the NATOPS jacket and APR.

INST-6601 Weapons and Tactics Instructor (WTI) Course graduate.

INST-6602 Marine Division Tactics Course (MDTC) graduate.

INST-6603 Naval Fighter Weapons School (TOPGUN) graduate.

9. Specific Weapons Delivery Proficiency [Surface (SSWD); Aerial (ASWD)]

a. Purpose. To track proficiency in specific weapons employment. SSWD-6701 - SSWD-6710 constitute weapons proficiency requirements as part of the Core Model Minimum Requirement (CMMR).

b. General

(1) Emphasize safe, effective employment of all weapons.

(2) Since air-to-air weapons employment involves live firing, flight leads, lead safes, and tractor aircrew will closely monitor aircrew for any unsafe tendencies.

(3) Due to the dynamic nature of employing air-to-air weapons systems, commanding officers will ensure each ASWD brief includes detailed discussion of avoiding airborne debris and towed targets after air-to-air weapons employment.

(4) In order to perform proper post flight analysis, all aircraft participating in ASWD sorties require operable VTR/CVRS.

c. Flight and Simulator Event Training. (6 Events, 7.8 Hours).

SSWD-6701 180 R 1 FA-18A/C/D A

Goal. Track proficiency in firing the M61A1 20mm Gun at a surface target.

Requirement. Must successfully employ the gun on two separate runs against a surface target for completion.

Ordnance. At least 250 20mm.

External Syllabus Support. Live strafing range.

SSWD-6702 90 R 1 FA-18A/C/D A

Goal. Track proficiency in dropping MK-76s.

Requirement. Must drop one MK-76 for completion.

Ordnance. At least one MK-76.

External Syllabus Support. Light inert ordnance range.

SSWD-6703 180 1 FA-18A/C/D A

Goal. Track proficiency in dropping inert MK-82, 83, or 84 bombs.

Requirement. Must drop one bomb for completion.

Ordnance. At least one inert MK-82, 83, or 84 bomb.

External Syllabus Support. Heavy inert ordnance range.

SSWD-6704 180 R 1 FA-18A/C/D A

Goal. Track proficiency in dropping live MK-82, 83, or 84 bombs.

Requirement. Must drop one bomb for completion.

Ordnance. At least one MK-82, 83, or 84 bomb.

External Syllabus Support. Live ordnance range.

SSWD-6705 90 R 1 FA-18A/C/D A

Goal. Track proficiency in dropping LGTRs.

Requirement. Must drop one LGTR for completion.

Ordnance. At least one LGTR.

External Syllabus Support. Light inert ordnance, laser safe range.

SSWD-6706 180 R 1 FA-18A/C/D A

Goal. Track proficiency in dropping inert laser guided bombs.

Requirement. Must drop one inert GBU-10, 12, 16, or 24 for completion.

Ordnance. At least one GBU-10, 12, 16, or 24.

External Syllabus Support. Inert ordnance range, laser safe range.

SSWD-6707 365 R 1 FA-18A/C/D A

Goal. Track proficiency in dropping laser guided bombs.

Requirement. Must drop one GBU-10, 12, 16 or 24 for completion.

Ordnance. At least one GBU-10, 12, 16, 24 or an LGTR.

External Syllabus Support. Live or inert ordnance range, laser safe range.

SSWD-6708 180 1 FA-18A/C/D A

Goal. Track proficiency in captive carry of a JDAM.

Requirement. Captive carry one JDAM.

Ordnance. One captive JDAM.

SSWD-6709 180 R 1 FA-18A/C/D A

Goal. Track proficiency in delivering inert JDAM.

Requirement. Deliver one inert JDAM.

Ordnance. One inert JDAM.

External Syllabus Support. Heavy inert ordnance range.

SSWD-6710 365 R 1 FA-18A/C/D A

Goal. Track proficiency in delivering JDAM.

Requirement. Deliver one JDAM.

Ordnance. One JDAM.

External Syllabus Support. Live ordnance range.

SSWD-6711 180 1 FA-18A/C/D A

Goal. Track proficiency in captive carry AGM-65E Laser Maverick employment.

Requirement. Functional captive AGM-65E Laser Maverick.

Ordnance. At least one captive AGM-65E Laser Maverick.

External Syllabus Support. Laser safe range.

SSWD-6712 1095 1 FA-18A/C/D A

Goal. Track proficiency in shooting AGM-65E Laser Maverick.

Requirement. Must shoot one AGM-65E Laser Maverick.

Ordnance. At least one AGM-65E Laser Maverick.

External Syllabus Support. Live Surface-to-Air missile range that is laser safe.

SSWD-6713 365 1 FA-18A/C/D A

Goal. Track proficiency in shooting live or inert 5.0" or 2.75" rockets.

Requirement. Shoot one pod of rockets for completion.

Ordnance. At least four 5.0" or seven 2.75" rocket.

External Syllabus Support. Live or inert ordnance range.

SSWD-6714 365 1 FA-18A/C/D A

Goal. Track proficiency in employing battlefield illumination.

Requirement. Shoot two illumination rockets or drop two LUU-2/19 flares for completion.

Ordnance. At least four 5.0" or seven 2.75" illumination rockets and/or 4 LUU-2/19.

External Syllabus Support. Inert ordnance range.

SSWD-6715 365 1 FA-18A/C/D A

Goal. Track proficiency in dropping live or inert CBU-99/100 Rockeye.

Requirement. Drop one Rockeye for completion.

Ordnance. At least one Rockeye.

External Syllabus Support. Live CBU range.

SSWD-6716 545 1 FA-18A/C/D A

Goal. Track proficiency in dropping MK-77 Fire Bomb munition.

Requirement. Drop one MK-77 Fire Bomb for completion.

Ordnance. At least one MK-77 Fire Bomb.

External Syllabus Support. Live ordnance range.

SSWD-6717 545 1 FA-18A/C/D A

Goal. Track proficiency in captive carry of a JSOW.

Requirement. Captive carry one JSOW.

Ordnance. One captive JSOW.

SSWD-6718 1095 1 FA-18A/C/D A

Goal. Track proficiency in delivering JSOW.

Requirement. Deliver one JSOW.

Ordnance. One JSOW.

External Syllabus Support. Live ordnance range.

SSWD-6719 180 1 FA-18A/C/D A

Goal. Track proficiency in captive carry of AGM-88 HARM.

Requirement. Functional captive AGM-88 HARM.

Ordnance. At least one captive AGM-88 HARM.

SSWD-6720 1095 1 FA-18A/C/D A

Goal. Track proficiency in shooting the AGM-88 HARM.

Requirement. Shoot one AGM-88 HARM.

Ordnance. At least one AGM-88 HARM.

External Syllabus Support. Live Air-to-Surface missile range with a range safety officer, emitter on the range.

SSWD-6721 545 1 FA-18A/C/D A

Goal. Track proficiency in captive carry of the SLAM(ER).

Requirement. Functional captive SLAM(ER), 1 AAW-13 pod.

Ordnance. One SLAM(ER), 1 AAW-13 pod.

SSWD-6722 1095 1 FA-18A/C/D A

Goal. Track proficiency in shooting the SLAM(ER).

Requirement. Shoot one SLAM(ER).

Ordnance. At least one SLAM(ER), 1 AAW-13 pod.

External Syllabus Support. Live Air-to-Surface missile range with a range safety officer.

SSWD-6723 1095 1 FA-18A/C/D A

Goal. Track proficiency in dropping a TALD.

Requirement. Drop one TALD.

Ordnance. At least one TALD.

External Syllabus Support. Inert or live ordnance range.

ASWD-6724 730 2+ FA-18A/C/D A

Goal. Introduce aerial gunnery (circular pattern). Emphasize pattern procedures, pipper control, firing technique, and postflight analysis.

Requirement. Conduct a dry or live fire aerial gunnery pattern. Eight runs on a maneuvering or non-maneuvering banner/dart required for completion.

Performance Standards

Achieve 10% hits.

Flies a consistent pattern.

Responds to range safety officer commands.

Prerequisite. AA-2510.

Ordnance. 500 20mm.

External Syllabus Support. One banner/dart tow aircraft, live aerial gunnery range.

ASWD-6725 730 2+ FA-18A/C/D A

Goal. Practice aerial gunnery (forward quarter pattern) and evaluate firing technique.

Requirement. Conduct live fire aerial gunnery (forward quarter pattern). Eight runs on a maneuvering or non-maneuvering banner/dart required for completion.

Performance Standards

Achieve 10% hits.
Flies a consistent pattern.
Responds to range safety officer commands.

Prerequisite. ASWD-6724.

Ordnance. 500 20mm.

External Syllabus Support. One banner/dart tow aircraft, live aerial gunnery range.

ASWD-6726 1095 2+ FA-18A/C/D A

Goal. Track proficiency in employment of an AIM-9.

Requirement. Fire an AIM-9 against an airborne target.

Ordnance. 1 AIM-9M/X.

External Syllabus Support. Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc). One BQM, AQM, or TALD with IR augmentation package.

ASWD-6727 1095 2+ FA-18A/C/D A

Goal. Track proficiency in employment of an AIM-7.

Requirement. Fire an AIM-7 against an airborne target.

Ordnance. 1 AIM-7M/H.

External Syllabus Support. Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc.). One BQM, AQM, or TALD with radar augmentation package.

ASWD-6728 1095 2+ FA-18A/C/D A

Goal. Track proficiency in employment of an AIM-120.

Requirement. Fire an AIM-120 against an airborne target.

Ordnance. 1 AIM-120A/B/C.

External Syllabus Support. Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc). One BQM, AQM, or TALD with radar augmentation package.

ASWD-6729 1095 2 FA-18A/C/D A

Goal. Track proficiency in towing the banner.

Requirement. Tow the banner.

Ordnance. One banner.

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215. MOS SYLLABUS AND SUPPORT REQUIREMENTS MATRICES. The MOS Syllabus Matrix for each platform (1.a and 2.a) displays specific 2000 - 6000 phase event information such as flight/simulator hours, refly interval, prerequisites, chaining, etc. The Ordnance and External Support Matrix for each platform (1.b and 2.b) shows ordnance, range, and external support requirements by event. These matrices are intended to support the squadron Flight Officer and schedule writers in effective scheduling of squadron aircrew and external support resources.

1. FA-18A/C

a. FA-18A/C Syllabus Matrix

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REFLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	SIM HOURS	ELT EVENTS	ELT HOURS	EVENT COM
CORE SKILLS (2000 PHASE EVENTS)																
FAMILIARIZATION (FAM)																
AIR - TO - AIR REFUELING (AAR)																
AS - TO - SURFACE (AS)																
NIGHT SYSTEMS (NS)																
SFAM	2101	EP SIM		S	1	(NS)	30	M	R			X	1.0			200
FAM	2102	DAY FAM/1V0		A	1		90		R	2101				X	1.3	201
FAM	2103	1V1 AWI		A	2		180		R	2102				X	1.3	202
FAM TOTAL																
AIR - TO - AIR REFUELING (AAR)																
AAR	2201	DAY AAR		A	1+	(NS)	365		R	2103	2102			X	1.3	210
AAR	2202	NIGHT AAR		A	1+	(NS)	365	M	R	2201	2102, 2201, 2402~NS			X	1.3	211
AAR TOTAL																
AS - TO - SURFACE (AS)																
SAS	2301	SACT SIM		S	1+	(NS)	365					X	1.0			230
SAS	2302	SENSOR/TPOD/LST SIM		S	1	(NS)	*					X	1.0			231
SAS	2303	HI/MED/LOW ANGLE DIVE (GP/GUN/CBU/ROCKET) SIM		S	1+	(NS)	365					X	1.0			232
SAS	2304	JDAM/IJDAM SIM		S	1+	(NS)	365		R			X	1.0			233
SAS	2305	LMAV/LGB/DMLGB SIM		S	1+	(NS)	365			2302		X	1.0			234
AS	2306	SACT		A	2	(NS)	365		R	2301	2102, 2402~NS			X	1.3	235
AS	2307	HI ANGLE/MED ANGLE DIVE		A	2+	(NS)	90	M	R	2303	2102, 2402~NS			X	1.3	237
AS	2308	MED/LOW STRAFE		A	2+	(NS)	90	M	R	2307	2102, 2402~NS			X	1.3	238
AS	2309	SGL/SEC LOW ANGLE POP		A	2+	(NS)	180		R	2308	2102, 2402~NS			X	1.3	239
AS	2310	TPOD DELIVERIES		A	2+	(NS)	180			2305	2102, 2402~NS			X	1.3	240
AS	2311	LMAV/LGB ATK		A	2+	(NS)	365			2310	2102, 2310, 2402~NS			X	1.3	241
AS	2312	JDAM		A	2+	(NS)	*			2304	2102, 2402~NS			X	1.3	242
AS	2313	BUDDY LAZE/BUDDY BOMB		A	2+	(NS)	180	M	R	2311	2102, 2310, 2311, 2402~NS			X	1.3	243
AS TOTAL																
NIGHT SYSTEMS (NS)																
SNS	2401	FAM SIM	DL	S	2	NS	*			2103		X	1.0			250
NS	2402	FAM/FORM/AWI	SL	A	2	NS	180	M	R	2103, 2401	2102, 2103			X	1.3	251
NS	2403	2V2 INTERCEPTS	DL	A	2	NS	*			2402	2102, 2103, 2402			X	1.3	252
NS	2404	LOW/MED ANGLE DIVE/POP	DL	A	2	NS	*		R	2309, 2402	2102, 2307, 2402			X	1.3	253
NS	2405	SEC LGB DELIVERIES	SL	A	2	NS	*			2311, 2404	2102, 2310, 2311, 2402			X	1.3	254
NS TOTAL																
AIR - TO - AIR (AA)																
SAA	2501	RADAR/SRR MECH SIM	SL	S	1		365			2103		X	1.0			264
AA	2502	1V1 OFFENSIVE BFM	DL	A	2		180	M	R	2103, 2501	2102			X	1.3	260
AA	2503	1V1 DEFENSIVE BFM	DL	A	2		180	M	R	2502	2102			X	1.3	261

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STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	HOURS	EVENTS	ELM HOURS	EVENTS	ANNO
CORE PLUS SKILLS (4000 PHASE EVENTS)																	
FIELD EXPEDITIONARY / CARRIER LANDING QUALIFICATION (FCLP / CQ)																	
SCQ	4101	EP CQ SIM		S	1+	(NS)	*	R	2102	2101		X	1.0				400
FCLP	4102	DAY FCLP		A	1+	(NS)	365	R	2102, 4101	2102				X	1.0		401
FCLP	4103	NIGHT FCLP		A	1+	(NS)	365	M	R 2102, 4102	2102, 4102, 2402-NS				X	1.0		402
CQ	4104	DAY CQ		A	1+	(NS)	365	R	2102, 4102	2102, 4102				X	1.0		403
CQ	4105	NIGHT CQ		A	1+	(NS)	365	M	R 2102, 4103, 4104	2102, 4102, 4103, 4104, 2402-NS				X	1.0		404
FCLP / CQ TOTAL																	
MULTI - SENSOR IMAGERY RECONNAISSANCE (MIR)																	
SMIR	4201	NTISR SIM		S	2	(NS)	*		2301, 2302, 3201	2301, 3201		X	1.0				231
MIR	4202	NTISR (THEATER DEP)		A	2	(NS)	365	M	R 3203, 4201	2102, 2402-NS				X	1.3		236
MIR TOTAL																	
AERIAL ESCORT (AESC)																	
AESC	4301	CONVOY ESCORT		A	2	(NS)	365	M	R 3203	2102, 2402-NS				X	1.3		440
AESC	4302	ASSAULT SPT ESCORT		A	2	(NS)	365	M	R 3203	2102, 2402-NS				X	1.3		441
AESC TOTAL																	
ATTACK ENEMY MARITIME TARGETS (AMT)																	
SAMT	4401	MINE LAYING OPS SIM		S	1+	(NS)	*					X	1.0				410
SAMT	4402	SLAM-ER/HARPOON		S	2	(NS)	365	M	R			X	1.0				
AMT	4403	SEA SURFACE CONTROL (SSC)		A	2	(NS)	365	M	R 3203	2102, 3202, 2402-NS, 3203-NS				X	1.3		411
AMT	4404	WAR AT SEA EXERCISE (WASEX)		A	2	(NS)	365	M	R 3604	2102, 3603, 2402-NS, 3604-NS				X	1.3		412
AMT TOTAL																	
ACTIVE AIR DEFENSE (AAD)																	
AAD	4501	HELO/PROP ATTACKS		A	2	(NS)	365	M	R 3702	2102, 2402-NS				X	1.3		450
AAD TOTAL																	
LARGE FORCE EXERCISE (LFE)																	
LFE	4601	DAY LFE		A	6+	(NS)	365	M	R 2000 PHASE	2102				X	1.3		470
LFE	4602	NIGHT LFE		A	6+	(NS)	365	M	R 2000 PHASE	2102, 2402, 4601				X	1.3		471
LFE TOTAL																	
NIGHT SYSTEMS LOW ALTITUDE TACTICS (NS LAT)																	
NS (LOW)	4701	SEC LOW LEVEL/TGT ATK	NSI (L)	A	2	(NS)	*		2309, 2402, 2405, 2602, 2603	2102, 2309, 2402				X	1.3		430
NS (LOW)	4702	SGL LAT W/CHASE	NSI (L)	A	2	(NS)	*		2402, 2602, 4701	2102, 2402, 2602				X	1.3		431
NS (LOW)	4703	SEC LAT TGT ATK	NSI (L)	A	2	(NS)	365	M	R 2402, 2602, 4702	2102, 2309, 2402, 2602				X	1.3		432
NS LAT TOTAL																	
FORWARD AIR CONTROLLER (AIRBORNE) [FAC(A)]																	
SFAC(A)	4801	TYPE 1/2/3 SIM	FAC(A) I	S	2	(NS)	*		3104, 3302			X	1.0				480

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	SIM HOURS	ELT EVENTS	ELT HOURS	EVENTS CONT
SFAC (A)	4802	ADVERSE WX HI THREAT SIM	FAC (A) I	S	2		*			4801		X	1.0			481
FAC (A)	4803	FW PGM/LOW THREAT	FAC (A) I	A	2		90	M	R	2313, 4802	2102, 2310, 2313, 3102, 3301, 2402-NS, 3203-NS			X	1.3	482
FAC (A)	4804	FW GP/LOW THREAT	FAC (A) I	A	2		*			2309, 4802	2102, 2307, 2702, 3202, 4803			X	1.3	483
FAC (A)	4805	RW TYPE 1/2/3 LOW THREAT	FAC (A) I	A	2	(NS)	*			2313, 4802	2102, 3202, 3301, 4803, 2402-NS, 3203-NS, 3302-NS			X	1.3	484
FAC (A)	4806	URBAN TYPE 1/2/3	FAC (A) I	A	2	(NS)	*			3104, 4802	2102, 3104, 4803, 2402-NS			X	1.3	485
FAC (A)	4807	AIRSPOT	FAC (A) I	A	2	(NS)	*			4802	2102, 2402-NS			X	1.3	486
FAC (A)	4808	NIGHT FAC(A)/LOW THREAT	FAC (A) I	A	2	NS	180	M	R	2307, 2402, 4803	2102, 2310, 2313, 2402, 2703, 3102, 3103, 3201, 3203, 3302, 4803			X	1.3	487
FAC (A)	4809	DAY MED THREAT	FAC (A) I	A	2		365	R	R	4803, 4804, 4805, 4806, 4807	2102, 2702, 3102, 3202, 3301, 4803			X	1.3	488
FAC (A)	4810	NIGHT MED THREAT	FAC (A) I	A	2	NS	365	M	R	2402, 4803, 4808, 4809	2102, 2310, 2313, 2402, 2702, 2703, 3102, 3103, 3202, 3203, 3301, 3302, 4803, 4808, 4809			X	1.3	489
FAC (A)	4811	TARGET AREA INTEGRATION (FAC (A) QUAL)	FAC (A) I	A	2	(NS)	365	M	R	4803, 4810	2102, 2310, 2313, 2702, 3102, 320			X	1.3	490
ESC	4812	FAC (A) ESCORT		A	1	(NS)	*			2307, 3103	2102, 2402-NS			X	1.3	495
FAC (A)	4813	ADVERSE WX, ELEVATED THREAT		A	2	(NS)	*			4811	2102, 2310, 2313, 2702, 3102, 320			X	1.3	491
FAC (A)	4814	UAS/UCAV INTEGRATION		A	2	(NS)	*			4811	2102, 2402-NS			X	1.3	492
FAC (A)	4815	NSFS AIRSPOT		A	2	(NS)	*			4811	2102, 2402-NS			X	1.3	493
FAC (A)	4816	AC-130 CFF		A	2	(NS)	*			4811	2102, 2402-NS			X	1.3	494
FAC(A) TOTAL																
CORE PLUS SKILLS TOTAL																
INSTRUCTOR / STANDARDIZATION TRAINING (5000 PHASE EVENTS)																
SLATI	5101		LATI	S	2		*			2602	2301	X	1.0			510
LATI	5102	IAW MAWTS-1 LATI	LATI	A	2		*			2602, 5101	2102, 2602, 2306, 2309			X	1.3	511
LATI	5103	PROGRAM GUIDE	LATI	A	2		*			2602, 5102	2102, 2602, 2306, 2309			X	1.3	512
LATI	5104		LATI	A	2		*	R		2602, 5103	2102, 2602, 2306, 2309			X	1.3	513
LATI TOTAL																
NIGHT SYSTEMS INSTRUCTOR (LOW) [NSI (LOW)]																
SNSI (LOW)	5201	IAW MAWTS-1 NSI (LOW) PROGRAM GUIDE	MAWTS-1	S	2	NS	*			2602, 5104	2301	X	1.0			531

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	HOURS	FLY EVENTS	FLY HOURS	EVENT CONV
NSI (LOW)	5202		MAWTS-1	A	2	NS	*	R	R	2402, 2602, 4703, 5201, 4703	2102, 2306, 2309, 2402, 2602, 4703		1.0	1	1.3	533
NSI (LOW) TOTAL																
FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR [FAC (A) I]																
FAC (A) I	5301		MAWTS-1	A	2	(NS)	*			4803, 4811	4803, 4804, 4808, 2402-NS, 4809-NS		1.0	1	1.3	540
FAC (A) I	5302	IAW MAWTS-1 FAC (A) I PROGRAM GUIDE	MAWTS-1	A	2	(NS)	*			4803, 4811	2102, 2310, 2313, 2702, 3102, 320, 2, 3301, 4803, 4809, 4811, 2402-NS, 2703-NS, 3103-NS, 3203-NS, 3302-NS, 4808-NS, 4810-NS		1.0	1	1.3	541
FAC (A) I	5303		MAWTS-1	A	2	NS	*	R	R	4803, 4811	2102, 2310, 2313, 2702, 3102, 320, 2, 3301, 4803, 4809, 4811, 2402-NS, 2703-NS, 3103-NS, 3203-NS, 3302-NS, 4808-NS, 4810-NS		0.0	3	3.9	
FAC (A) I TOTAL																
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)																
FLSE	5401		SEE NOTE	A	2		545 M			6503, 6601, 6602, 6003	2102, 2502, 2503, 2504			X	1.3	
FLSE	5402	IAW FLSE PROGRAM GUIDE	SEE NOTE	A	2		545 M				2102, 2103, 2506, 2510			X	1.3	
FLSE	5403	NOTE EVENTS EVALUATED BY MAWTS-1/MATSS OR MAG WTI FLSE	SEE NOTE	S	2		545 M				2501, 2507, 2508, 3701		1.0	X		
FLSE	5404		SEE NOTE	S	2+	NS	545 M				2301, 2303, 2305, 3201		1.0	X		
FLSE	5405		SEE NOTE	A	2+	NS	545 M				2102, 2310, 2402, 3103			X	1.3	
FLSE	5406		SEE NOTE	A	4+	(NS)	545 M	R	R	5403	2102, 2306, 2310, 2402, 3604, 3605			X	1.3	
FLSE TOTAL																
INSTRUCTOR / STANDARDIZATION TRAINING TOTAL																
REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS (6000 PHASE EVENTS)																
REQUIRED TRAINING AND/OR PROFICIENCY EVENTS (REQD)																
RQD	6101	NATOPS CHECK		S/A	1+		365	R	R	6801, 6802, 6803	2101		1.0	X		600
RQD	6102	INSTRUMENT CHECK		S/A	1+	(NS)	365	R	R	6804, 6805			1.0	X		601
RQD	6103	SEC LEADER PROF FLT		A	2	(NS)	90	R	R	6326						605
RQD	6104	DIV LEADER PROF FLT		A	4	(NS)	180	R	R	6408						606
RQD	6105	MSN CMDR PROF FLT		A	6+	(NS)	365	R	R	6503						607
RQD	6106	FLSE CHECK FLT		A	4	(NS)	545	R	R	5406	3603					
RQD	6107	A/A JHMCS INTRO		A	1		*			2506	2102, 2103, 2504			X	1.3	
RQD	6108	A/G JHMCS INTRO		A	1		*			2309	2102, 2307, 2309			X	1.3	
RQD	6109	JHMCS QUAD EYE INTRO		A	1	NS	*			2307, 2402	2102, 2308, 2310, 2402			X	1.3	

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REFLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	SIM HOURS	FLTH EVENTS	FLTH HOURS	EVENT COMB
RQD	6110	STRAT TANKER		A	1+	(NS)	545		R	2201	2102,2103,2201,2202~NS,2402~NS	X	1.0			603
SRQD	6111	FCF SIM		S	1		1095		R		2101	X	3.0	3	3.9	604
RQD TOTAL																
QUALIFICATION EVENTS (QUAL)																
QUAL	6201	DAY CQ		A	1+		*			4104						611
QUAL	6202	NIGHT CQ		A	1+	N	*			4105						612
QUAL	6203	LAT QUAL		A	2		*			2602,2603						610
QUAL	6204	NS (LOW) QUAL		A	2	NS	*			4703						616
QUAL	6205	LSO QUAL		-			*			6201,6202						618
QUAL	6206	FCF QUAL		A	1+		*			6111	2102			X	1.3	619
QUAL	6207	FAC(A) QUAL		A	2	(NS)	*			4811						614
QUAL TOTAL																
DESIGNATION EVENTS: SECTION LEAD (SL)																
SL	6301	FAM/FORM 1V1 ATTP	DL	A	2		*			2000,3000 EVTS	2102,2103,2402			X	1.3	
SSL	6302	SACT SIM	DL	S	2		*				2301,2601		1.5			
SL	6303	GP HI/MED ANGLE DIVES	DL	A	2	NS	*			6302	2102,2303,2307,2402			X	1.3	
SL FLSE	6304	HD POPS AND STRAFE	FLSE	A	2		*			6303	2102,2308,2309,2602			X	1.3	
SSL	6305	LGW/TPOD SIM	DL	S	2	NS	*			6302	2305,2310,2402		1.5			
SL	6306	BUDDY LASE/BOMB	DL	A	2	NS	*			6305	2102,2311,2313,2402			X	1.3	
SSL FLSE	6307	GPS WEAPONS SIM	FLSE	S	2		*			6304,3501	2302,3501		1.5			
SL	6308	GP AR	DL	A	2		*			6304	2102,2307,2308,3202			X	1.3	
SSL	6309	PGM AR/SCAR SIM	DL	S	2+		*			6307	2304,2305,3201		1.5			
SL FLSE	6310	PGM SCAR	FLSE	A	2+	NS	*			6309	2102,2310,2313,2402,3203,3301,3302			X	1.3	
SL FLSE	6311	GP CAS	FLSE	A	2		*			6304	2102,2307,2702			X	1.3	
SSL FLSE	6312	BOT/BOC CAS SIM	FLSE	S	2	NS	*			6305,6307	2305,2304,2402,2701,3101		1.5			
SSL	6313	URBAN CAS SIM	DL	S	2		*			6312	3101		1.5			
SL	6314	PGM CAS	DL	A	2	NS	*			6306,6312	2102,2310,2311,2402,3103			X	1.3	
SL	6315	OFF BFM	DL	A	2		*			6301	2102,2502			X	1.3	
SL	6316	DEF BFM	DL	A	2		*			6315	2102,2503			X	1.3	
SL	6317	HA BFM	DL	A	2		*			6316	2102,2504			X	1.3	
SL FLSE	6318	BFM STAN CHECK	FLSE	A	2		*			6317	2102,2504			X	1.3	
SSL	6319	VID SIM	DL	S	2		*			6318	2501		1.5			
SL FLSE	6320	VID/SEM	FLSE	A	2		*			6319	2102,2103,2506,2510			X	1.3	
SL	6321	2VX OCA	DL	A	2		*			6320	2102,2103,2509,3402			X	1.3	
SSL FLSE	6322	2VX DCA SIM	FLSE	S	2		*			6320	2501,2507,2508,3701		1.5			
SSL	6323	LOW GP AI SIM	DL	S	2		*			6322	2301,3401,3502		1.5			
SL FLSE	6324	LOW AI	FLSE	A	2		*			6323	2102,2306,2309,2509,3602,2602~NS			X	1.3	
SSL	6325	MED/HIGH AI JDRAM SIM	DL	S	2	NS	*			6323	2301,2304,2402,2507,3401,3601		1.5			

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REFLY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	SIM HOURS	PLT EVENTS	PLT HOURS	EVENT CONV
SL CHECK	6326	MED/HIGH LGM AI	CO DESIG	A	2	NS	*	R	R	6301-6325, 8630, 8660	2102, 2306, 2310, 2311, 2402, 2509, 3603	10	15.0	16	20.8	
SL TOTAL																
DESIGNATION EVENTS: DIVISION LEAD (DL)																
DL	FLSE	6401 VID/SEM STAN	FLSE	A	2		*			6326	2102, 2103, 2506, 2510			X	1.3	
DL	FLSE	6402 OCA (SWEEP)	MC	A	4		*			6401	2102, 2103, 3402, 3403			X	1.3	
SDL	FLSE	6403 DCA (POINT DEFENSE) SIM	MC	S	4	NS	*			6402	2501, 2507, 2508, 3701	X	1.5			
DL	FLSE	6404 DCA (POINT DEFENSE) DTD	FLSE	A	4		*			6403	2102, 2103, 2509, 3702			X	1.3	
SDL	FLSE	6405 DCA (POINT DEFENSE) FT	FLSE	S	4		*			6404	2501, 2507, 2508, 3701	X	1.5			
DL	FLSE	6406 POP/STRAFE	MC	A	4	NS	*			6405	2102, 2307, 2308, 2309, 2402			X	1.3	
DL	FLSE	6407 LOW AI GP	MC	A	4		*			6406	2102, 2306, 2309, 2402, 2507, 2509, 3602			X	1.3	
DL CHECK	6408	MED/HI AI PGM	CO DESIG	A	4	NS	*	R	R	6407, 8640, 8641	2102, 2306, 2310, 2501, 2507, 2509, 3603	2	3.0	6	7.8	
DL TOTAL																
DESIGNATION EVENTS: MISSION COMMANDER (MC)																
MC	FLSE	6501 LFE DCA	WTI	A	6+	(NS)	*			6408	2102, 2103, 2501, 2507, 3702			X	1.3	
MC	FLSE	6502 LFE DAY AI	FLSE	A	6+		*			6408	2102, 3603, 4601			X	1.3	
MC CHECK	6503	LFE NIGHT AI	CO DESIG	A	6+	NS	*	R	R	6501, 6502, 8620, 4602	2102, 2402, 3604, 3605, 4601, 4602			X	1.3	
MC TOTAL																
DESIGNATION EVENTS: WEAPONS SCHOOL GRADUATE INSTRUCTOR (INST)																
INST	WTI	6601					*									
INST	MDTC	6602					*									
INST	TOPGUN	6603					*									
INST TOTAL																
SPECIFIC WEAPONS DELIVERY PROFICIENCY REQUIREMENTS [SURFACE (SSWD); AERIAL (ASWD)]																
SSWD	M61A1 (A/S)	6701		A	1			180	M	R						711
SSWD	MK-76	6702		A	1			90	M	R						710
SSWD	BDU-45/MK-83 IN/84 IN	6703		A	1			180			6702					710
SSWD	MK-82/83/84	6704		A	1			180	M	R	6702, 6703					710
SSWD	LCPR	6705		A	1			90		R						718
SSWD	GBU-12/16/10/24 INERT	6706		A	1			180		R	6705					718
SSWD	GBU-12/16/10/24	6707		A	1			365	M	R	6705, 6706					719
SSWD	CAPTIVE JDAM	6708		A	1			180								720
SSWD	JDAM INERT	6709		A	1			180		R	6708					720
SSWD	JDAM	6710		A	1			365	M	R	6708, 6709					716
SSWD	CATM AGM-65E	6711		A	1			180								717
SSWD	AGM-65E	6712		A	1			109			6711					714
SSWD	ROCKETS	6713		A	1			5								714
SSWD	ROCKETS	6714		A	1			365								714

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITION	REFRY	MAINTAIN	REFRESH	PREREQ	CHAINING	SIM EVENTS	SIM HOURS	FLT EVENTS	FLT HOURS	EVENTS	CONV
SSWD	6714	ILLUM		A	1		365										715
SSWD	6715	CBU		A	1		365										712
SSWD	6716	FIRE BOMB		A	1		545										713
SSWD	6717	CAPTIVE JSOW		A	1		545										721
SSWD	6718	JSOW		A	1		109				6717						722
SSWD	6719	CATM HARM		A	1		180										723
SSWD	6720	HARM		A	1		109				6719						724
SSWD	6721	CATM SLAM(ER)		A	1		545										725
SSWD	6722	SLAM(ER)		A	1		109				6721						726
SSWD	6723	TALD		A	1		109										727
ASWD	6724	CIRCULAR GUN PATTERN		A	2+		730		2510								700
ASWD	6725	FWD QTR GUN PATTERN		A	2+		730		6724								701
ASWD	6726	AIM-9		A	2+		109										702
ASWD	6727	AIM-7		A	2+		109										703
ASWD	6728	AIM-120		A	2+		109										704
ASWD	6729	BANNER TOW		A	2+		109										705
SSWD / ASWD TOTAL																	
NATOPS AND INSTRUMENT EVALUATION ACADEMIC EVENTS (NTPS / INST)																	
NTPS	6801	NATOPS OPEN BOOK EXAM					365		R								
NTPS	6802	NATOPS CLOSED BOOK EXAM					365		R								
NTPS	6803	NATOPS ORAL EXAM					365		R								
INST	6804	INSTRUMENT EXAM					365		R								
INST	6805	INSTRUMENT GND SCHOOL					365		R								
NTPS / INST TOTAL																	
REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS TOTAL																	
VFMA FA-18 AT/C TOTAL																	
												0	0.0	0	0.0		
												17	24.0	35	45.6		
												44	50.0	114	147.0		

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b. FA-18A/C Ordnance and External Support Requirements

STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITIONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
CORE SKILLS (2000 PHASE EVENTS)											
FAMILIARIZATION (FAM)											
SFAM	2101	EP SIM	S	1	(NS)	30	M	R			MDA
FAM	2102	DAY FAM/1V0	A	1		90		R			SUA, max altitude at least 30,000' above ground level.
FAM	2103	1V1 AWI	A	2		180	R	CATM-9X		1	MDA
AIR - TO - AIR REFUELING (AAR)											
AAR	2201	DAY AAR	A	1+		365		R			AAR: One compatible tactical or strategic tanker.
AAR	2202	NIGHT AAR	A	1+	(NS)	365	M	R			AAR: One compatible tactical or strategic tanker.
AIR - TO - SURFACE (AS)											
SAS	2301	SACT SIM	S	1+	(NS)	365					
SAS	2302	SENSOR/TPOD/LST SIM	S	1	(NS)	*					
SAS	2303	HI/MED/LOW ANGLE DIVE (GP/GUN/CBU/ROCKET) SIM	S	1+	(NS)	365					
SAS	2304	JDAM/LJDAM SIM	S	1+	(NS)	365		R			
SAS	2305	LMAV/LGB/DMLGB SIM	S	1+	(NS)	365					
AS	2306	SACT	A	2	(NS)	365		R	Chaff, Flare, TACTS Pod	40, 20, 1	MDA, URBN, TRG, COMPLEX; EW/TACTS.
AS	2307	HI ANGLE/MED ANGLE DIVE	A	2+	(NS)	90	M	R	Mk-76, Chaff, Flare	12, 40, 20	RSTD, RKD RNG, STRAFE, HVY INERT, EXP.
AS	2308	MED/LOW STRAFE	A	2+	(NS)	90	M	R	Mk-76, 20mm, Chaff, Flare	6, 500, 40, 20	RSTD, RKD RNG, STRAFE, HVY INERT, EXP.
AS	2309	SGL/SEC LOW ANGLE POP	A	2+	(NS)	180		R	BDU-48, Mk-76, Chaff, Flare	6, 6, 40, 20	RSTD, RKD RNG, HVY INERT, EXP.

STAGE	EVENT	DESCRIPTION	DEVICE	RCD #	CONDITIONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
AS	2310	TPOD DELIVERIES	A	2+	(NS)	180			Mk-76, LGTR, Chaff, Flare	6, 2, 40, 20	RSTD, RKD RNG, LSR, IR TGT, RDR TGT, LGB, EXP.
AS	2311	LMAV/LGB ATK	A	2+	(NS)	365			LGTR, CATM-65E	2, 1	RSTD, RKD RNG, LGB; Laser designator (ground or airborne).
AS	2312	JDAM	A	2+	(NS)	*			Captive JDAM, Chaff, Flare	1, 40, 20	RSTD, TGT, JDAM.
AS	2313	BUDDY LASE/BUDDY BOMB	A	2+	(NS)	180	M	R	LGTR, Chaff, Flare	2, 40, 20	RSTD, TGT, LGB, EXP.
NIGHT SYSTEMS (NS)											
SNS	2401	FAM SIM	S	2	NS	*					
NS	2402	FAM/FORM/AWI	A	2	NS	180	M	R	CATM-9X	1	MOA.
NS	2403	2V2 INTERCEPTS	A	2	NS	*			CATM-9X, CATM-78/120, Chaff, Flare	1, 1, 40, 20	MOA, MACH 1+, EXP; Two adversaries, (GCI).
NS	2404	LOW/MED ANGLE DIVE/POP	A	2	NS	*		R	Mk-76, Chaff, Flare	12, 40, 20	RSTD, RKD RNG, EXP.
NS	2405	SEC LGB DELIVERIES	A	2	NS	*			LGTR, Chaff, Flare	2, 40, 20	RSTD, RKD RNG, TGT, LGB.
AIR TO AIR (AA)											
SAA	2501	RADAR/SRR MECH SIM	S	1		365					
AA	2502	1V1 OFFENSIVE BFM	A	2		180	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP.
AA	2503	1V1 DEFENSIVE BFM	A	2		180	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP.
AA	2504	1V1 NEUTRAL BFM (HA/FLAT/ROLLER)	A	2		90	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP.
AA	2505	1V1 DISSIMILAR BFM	A	1		365	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP; One dissimilar adversary.
AA	2506	2V1/2V2 VIS SETS (DISSIMILAR)	A	2		180	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP; Two (dissimilar) adversaries.
SAA	2507	BVR SIM	S	1		365					
SAA	2508	EA SIM	S	1		365					

STAGE	DESCRIPTION	DEVICE	REQ #	CONDITIONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
AA	2509 2V2 BVR	A	2		180		R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two (Dissimilar) Adversaries.
AA	2510 2V2 VID (DISSIMILAR)	A	2		180		R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two (Dissimilar) Adversaries.
LOW ALTITUDE TACTICS (LAT)										
SLAT	2601 LAT SIM	S	1		*		R			
LAT	2602 SGL SHIP LAT (2/3D, TRXN, TGT ATTACK)	A	2		180	M	R	CATM-9X, Chaff, Flare	1, 40, 20	LAT
LAT	2603 SEC LAT (TRXN, TGT ATTACK) - CHECK	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	LAT
CLOSE AIR SUPPORT (CAS)										
SCAS	2701 TYPE 1/2/3 CONTROL SIM	S	1		*		R	Mk-82/83, 25mm, TPOD	4, 250, 1	
CAS	2702 DAY GP CAS	A	2		180		R	Mk-82/83, 25mm, Chaff, Flare	4, 250, 40, 20	RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP; JTAC or FAC(A).
CAS	2703 NIGHT GP CAS	A	2	NS	180	M	R	Mk-82/83, 25mm, Chaff, Flare	4, 250, 40, 20	RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP; JTAC or FAC(A).
MISSION SKILLS (3000 PHASE EVENTS)										
CLOSE AIR SUPPORT (CAS)										
SCAS	3101 TYPE 2/3 CONTROL SIM	S	1+	(NS)	*			JDAM, GBU10/12/16	2, 2	
CAS	3102 DAY PGM CAS	A	2		180	M	R	GBU-31/32/38, GBU-12/16, 20mm, Chaff, Flare	1, 2, 250, 40, 20	RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDAM; JTAC or FAC(A).
CAS	3103 NIGHT PGM CAS	A	2	NS	180	M	R	GBU-31/32/38, GBU-12/16, 20mm, Chaff, Flare	1, 2, 250, 40, 20	RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDAM; JTAC or FAC(A).
CAS	3104 URBAN CAS	A	2	(NS)	365	M	R	GBU-31/32/38 inert, GBU-12/16 inert, 20mm, Chaff, Flare	1, 2, 250, 40, 20	RSTD, TGT, SST, EW, JCAS, URBAN WPNS, TGT-DISP, TGT-MOVE, EXP, JDAM; JTAC or FAC(A).

STAGE	DESCRIPTION	DEVICE	#	COND	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
ARMED RECONNAISSANCE (AR)										
SAR	3201 AR (GP, PGM)	S	2	(NS)	365	M	R	Mk-82/83/84, 20mm, Chaff, Flare	4,250,40,20	RSTD, TGT, HE, SST, TGT-DISP, TGT-MOVE, EW, EXP, LSR.
AR	3202 GP AR	A	2		180	M	R	Mk-82/83, 20mm, Chaff, Flare	1,250,40,20	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.
AR	3203 NIGHT PGM AR	A	2	NS	180	M	R	LMAV/Captive LMAV/GBU-31/32/38, GBU-10/12/16, 20mm, Chaff, Flare	1,1,250,40,20	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.
STRIKE COORDINATION AND RECONNAISSANCE (SCAR)										
SCAR	3301 DAY SCAR	A	2+		365	M	R	2.75"/5.0" Rocket Pods/Mk-82/83/84/GBU-12/16/CBU-99, 20mm, Chaff, Flare	2/4,250,40,20	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR; 1 section AR assets.
SCAR	3302 NIGHT SCAR	A	2+	NS	365	M	R	2.75"/5.0" Rocket Pods/Mk-82/83/84/GBU-12/16/CBU-99, 20mm, Chaff, Flare	2/4,250,40,20	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR; 1 section AR assets.
OFFENSIVE ANTI-AIR WARFARE (OAAW)										
SOAAW	3401 SWEEP SIM	S	2+		365	M	R			
OAAW	3402 SCREEN/CLOSE ESC	A	2+	(NS)	180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1,1,40,20	AA, EXP, MACH 1+, TACTS; Two or more adversaries.
OAAW	3403 PSS	A	4		180	M	R	CATM-9X, CATM-7/120, Flare, Chaff	1,1,20,40	AA, EXP, MACH 1+, TACTS; Two or more dissimilar adversaries, TACTS range.
OAAW	3404 NIGHT SWEEP	A	4	NS	180	M	R	CATM-9X, CATM-7/120, Flare, Chaff	1,1,20,40	AA, EXP, MACH 1+, TACTS; Two or more dissimilar adversaries, TACTS range.
SUPPRESSION OF ENEMY AIR DEFENSES (SEAD)										
SSEAD	3501 SLAM-ER/JSOW SIM	S	1+	(NS)	365	M	R			
SSEAD	3502 HARM SIM (PP/TOO)	S	1+	(NS)	365	M	R			
SEAD	3503 SEAD (HARM)	A	2+	(NS)	365	M	R	CATM-88/AGM-88, Chaff, Flare	1,40,20	MOA, TACTS, Hi Fi EW, ARM.

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STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITIONS	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
AIR INTERDICTION (AI)											
SAI	3601	AI (LGB/JDAM/AGRESSED)	S	2+	(NS)	365	M	R	GBU-10/12/16, JDAM, AIM-7/120, AIM-9	1, 1, 1, 2	
AI	3602	DAY LOW ALT AI (GP/AGRESSED)	A	2+		180	M	R	Mk-82/83/84, CATM-9X, CATM-7/120, Chaff, Flare	4, 1, 1, 40, 20	TGT, AA, EW, SST, TACTS, TGT-DISP, LSR; Two adversaries and one tanker (if AAR required).
AI	3603	DAY HIGH ALT AI (PGM/AGRESSED)	A	4		180	M	R	GBU-31/32/38/GBU-12/16, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR, JDAM.
AI	3604	NIGHT HIGH ALT AI (LGB / UNAGRESSED)	A	4	NS	180	M	R	GBU-10/12/16, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR; One tanker (if AAR required).
AI	3605	NIGHT HIGH ALT AI (JDAM/AGRESSED)	A	4	NS	180	M	R	GBU-31/32/38 live/inert, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR, JDAM; Two adversaries and one tanker (if AAR required).
ACTIVE AIR DEFENSE											
SAAD	3701	DCA (POINT DEFENSE) W/ EA SIM	S	2+		365	M	R			Dissimilar Adversaries
AAD	3702	DAY DCA (AREA DEFENSE)	A	2+		180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.
AAD	3703	DAY DCA (AREA DEFENSE) W/ EA	A	4		180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.
AAD	3704	NIGHT DCA (AREA DEFENSE) W/ EA	A	4	NS	180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.
EXPEDITIONARY SHORE-BASED OPERATIONS (EXP)											
EXP	3800	REVIEW SHORE OPS	A	1	(NS)	365	M	R			Shore based landing site away from home station.

STAGE	EVENT	DESCRIPTION	DEVICE	#	REQD	CONDITIONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
CORE PLUS SKILLS (4000 PHASE EVENTS)												
FIELD EXPEDITIONARY / CARRIER LANDING QUALIFICATION (FCLP / CO)												
SCQ	4101	EP CQ SIM	S	1+			*		R			LSO
FCLP	4102	DAY FCLP	A	1+			365		R			EAF or airfield with FCLP pattern, carrier box, and fresnel lens; LSO
FCLP	4103	NIGHT FCLP	A	1+	N		365	M	R			EAF or airfield with FCLP pattern, carrier box, and fresnel lens. For CO, CV-compatible ACLS or ICLS; LSO.
CQ	4104	DAY CQ	A	1+			365		R			LSO
CQ	4105	NIGHT CQ	A	1+	N		365	M	R			LSO
MULTI - SENSOR IMAGERY RECONNAISSANCE (MIR)												
SMIR	4201	NTISR SIM	S	2	(NS)		*					
MIR	4202	NTISR (THEATER DEP)	A	2	(NS)		365	M	R			
AERIAL ESCORT (AESC)												
AESC	4301	CONVOY ESCORT	A	2	(NS)		365	M	R			RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT; Minimum 1 vehicle convoy. 2 rotary wing escort aircraft desired.
AESC	4302	ASSAULT SPT ESCORT	A	2	(NS)		365	M	R			RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT; Minimum 1 Helicopter/Assault support package.
ATTACK ENEMY MARITIME TARGETS (AMT)												
SAMT	4401	MINE LAYING OPS SIM	S	1+	(NS)		*					
SAMT	4402	SLAM-ER/HARPOON	S	2	(NS)		365	M	R			
AMT	4403	SEA SURFACE CONTROL (SSC)	A	2	(NS)		365	M	R			MOA; Controlling naval surface platform.
AMT	4404	WAR AT SEA EXERCISE (WASEX)	A	2	(NS)		365	M	R			MOA; Controlling naval surface platform.
ACTIVE AIR DEFENSE (AAD)												
AAD	4501	HELO/PROP ATTACKS	A	2	(NS)		365	M	R			AA, EXP; One or more helicopters/prop aircraft.
LARGE FORCE EXERCISE (LIFE)												

STAGE	EVENT	DESCRIPTION	DEVICE	# REQD	CONDITIONS	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
LFE	4601	DAY LFE	A	6+		365		R			AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP; One tanker (if AAR required), 4 or more adversaries.
LFE	4602	NIGHT LFE	A	6+	NS	365	M	R			AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP; One tanker (if AAR required), 4 or more adversaries.
NIGHT SYSTEMS LOW ALTITUDE TACTICS (NS LAT)											
NS (LOW)	4701	SEC LOW LEVEL/TGT ATTK	A	2	NS	*			Mk-76, Chaff, Flare	6, 40, 20	RSTD, RKD RNG, EXP; Approved MTR, scored raked range.
NS (LOW)	4702	SGL LAT W/CHASE	A	2	NS	*					LAT; Certified LAT Course.
NS (LOW)	4703	SEC LAT TGT ATTK	A	2	NS	365	M	R	Mk-76, Chaff, Flare	6, 40, 20	LAT; Certified LAT Course.
FORWARD AIR CONTROLLER (AIRBORNE) [FAC (A)]											
SFAC (A)	4801	TYPE 1/2/3 SIM	S	2		*					
SFAC (A)	4802	ADVERSE WX HI THREAT SIM	S	2		*					
FAC (A)	4803	FW PGM/LOW THREAT	A	2		90	M	R	GBU-12/16, 20mm, Chaff, Flare	2, 250, 40, 20	RSTD, JCAS, SST, EXP; One or two FW CAS elements with live, inert or captive PGMS or Laser Guided Weapons and a ground FAC. LSTs are desired to aid in Type 1 control.
FAC (A)	4804	FW GP/LOW THREAT	A	2		*			2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	RSTD, JCAS, SST, EXP; One or two FW CAS elements with live or inert GP ordnance and a ground FAC.
FAC (A)	4805	RW TYPE 1/2/3 LOW THREAT	A	2	(NS)	*			GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	RSTD, JCAS, SST, EXP; One or two RW CAS elements with live/captive Hellfire and a ground FAC.
FAC (A)	4806	URBAN TYPE 1/2/3	A	2	(NS)	*			CATM-65E/AGM-65E, GBU-12/16, 20mm, Chaff, Flare	1, 1, 250, 40, 20	JCAS, SST, EXP, URBAN WPNS; One or more FW or RW CAS elements, and a ground FAC, Ground FAC/JTAC should have capability to receive TPOD video via datalink.

STAGE	EVENT	DESCRIPTION	DEVICE	# REQD	CONDITIONS	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FAC (A)	4807	AIRSPOT	A	2	(NS)	*			Chaff, Flare	40, 20	JCAS, SST, EXP; Indirect Fire Support (IDFS) asset (mortars or artillery) and a ground FAC or FO. IDFS asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.
FAC (A)	4808	NIGHT FAC (A) / LOW THREAT	A	2	NS	180	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, LUU-19/IUU-2/2.75" Illum Rocket Pod, Chaff, Flare	2, 4/1, 40, 20	JCAS, SST, EXP; One or two FW CAS elements and a ground FAC.
FAC (A)	4809	DAY MED THREAT	A	2		365		R	GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	JCAS, EXP; One FW CAS element, One additional Fire support asset (RW CAS/UAV CAS/IDFS) and a ground FAC. If IDFS is to be used 10 HE rds, 4 WP rds for marking or suppression required.
FAC (A)	4810	NIGHT MED THREAT	A	2	NS	365	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	JCAS, EXP; One FW CAS element, One additional Fire support asset (RW CAS/UAV CAS/IDFS) and a ground FAC. If IDFS is to be used 10 HE rds, 4 WP rds for marking or suppression required.
FAC (A)	4811	TARGET AREA INTEGRATION (FAC (A) QUAL)	A	2	(NS)	365	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	JCAS, EXP; Minimum of 3 Fire Support assets (FW CAS/RW CAS/UAV CAS/IDFS) and a ground FAC. IDFS asset requires 10 HE rds, 4 WP rds.
ESC	4812	FAC (A) ESCORT	A	1	(NS)	*			AGM-65E/CATM-65E, GBU-12/16/2.75"/5.0" Rocket Pods, Chaff, Flare	1, 1/2, 40, 20	MOA, JCAS, EXP; 2+ CAS aircraft. Indirect fire and C3 agencies preferred.

STAGE	FINALS	DESCRIPTION	DEVICE	#	CONDITONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FAC(A)	4813	ADVERSE WX, ELEVATED THREAT	A	2	(NS)	*			2.75"/5.0" RP Rocket Pods/Mk-82/83, Chaff, Flare	2/4, 40, 20	MOA, JCAS, EXP; One or two FW CAS elements, one IDFS asset and a ground FAC. IDFS asset requires 10 HE rds, 4 WP rds.
FAC(A)	4814	UAS/UCAV INTEGRATION	A	2	(NS)	*			Chaff, Flare	40, 20	MOA, JCAS, EXP; UAV/UCAV asset with captive LGMs and a ground FAC or FO.
FAC(A)	4815	NSFS AIRSPOT	A	2	(NS)	*			Chaff, Flare	40, 20	MOA, JCAS, EXP; Naval Surface Fire Support asset and a ground FAC or FO or NGLO. NSFS asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.
FAC(A)	4816	AC-130 CFF	A	2	(NS)	*			Chaff, Flare	40, 20	MOA, JCAS, EXP; One AC-130 and a ground FAC.
INSTRUCTOR / STANDARDIZATION TRAINING (5000 PHASE EVENTS)											
LOW ALTITUDE TACTICS INSTRUCTOR (LATI)											
SLATI	5101		S	2		*					
LATI	5102	IAW MAWTS-1 LATI	A	2		*					
LATI	5103	PROGRAM GUIDE	A	2		*					
LATI	5104		A	2		*		R			
NIGHT SYSTEMS INSTRUCTOR (LOW) [NSI (LOW)]											
SNSI (LOW)	5201	IAW MAWTS-1 NSI (LOW)	S	2	NS	*					
NSI (LOW)	5202	PROGRAM GUIDE	A	2	NS	*		R			
FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR [FAC(A)I]											
FAC(A)I	5301		A	2	(NS)	*					
FAC(A)I	5302	IAW MAWTS-1 FAC(A)I	A	2	(NS)	*					
FAC(A)I	5303	PROGRAM GUIDE	A	2	NS	*		R			
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)											
FLSE	5401	IAW FLSE PROGRAM GUIDE	A	2			545	M			
FLSE	5402		A	2			545	M			

STAGE	EVENT	DESCRIPTION	DEVICE	REQ #	CONDITIONS	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FLSE	5403		S	2		545	M				
FLSE	5404		S	2+	NS	545	M				
FLSE	5405		A	2+	NS	545	M				
FLSE	5406		A	4+	NS	545	M	R			
REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS (6000 PHASE EVENTS)											
REQUIRED TRAINING AND/OR PROFICIENCY EVENTS (REQD)											
RQD	6101	NATOPS CHECK	S/A	1+		365		R			
RQD	6102	INSTRUMENT CHECK	S/A	1+	(NS)	365		R			
RQD	6103	SEC LEADER PROF FLT	A	2	(NS)	90		R			
RQD	6104	DIV LEADER PROF FLT	A	4	(NS)	180		R			
RQD	6105	MSN CMDR PROF FLT	A	6+	(NS)	365		R			
RQD	6106	FLSE CHECK FLT	A	4	(NS)	545		R			
RQD	6107	A/A JHMCS INTRO	A	1		*					
RQD	6108	A/G JHMCS INTRO	A	1		*					
RQD	6109	JHMCS QUAD EYE INTRO	A	1	NS	*					
RQD	6110	STRAT TANKER	A	1+	(NS)	545		R			
SRQD	6111	FCF SIM	S	1		1095		R			
QUALIFICATION EVENTS (QUAL)											
QUAL	6201	DAY CQ	A	1+		*					
QUAL	6202	NIGHT CQ	A	1+	N	*					
QUAL	6203	LAT QUAL	A	2		*					
QUAL	6204	NS (LOW) QUAL	A	2	NS	*					
QUAL	6205	LSO QUAL	-			*					
QUAL	6206	FCF QUAL	A	1+		*					
QUAL	6207	FAC(A) QUAL	A	2	(NS)	*					
DESIGNATION EVENTS SECTION LEAD (SL)											
SL	6301	FAM/FORM 1V1 ATTP	A	2		*			CATM-9, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SSL	6302	SACT SIM	S	2		*					
SL	6303	GP HI/MED ANGLE DIVES	A	2	NS	*			Mk-76, Chaff, Flare	12, 40, 20	
SL FLSE	6304	HD POPS AND STRAFE	A	2		*			BDU-48, 20mm, Chaff, Flare	6, 500, 40, 20	
SSL	6305	LGW/TPOD SIM	S	2	NS	*					

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STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITIONS	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
SL	6306	BUDDY LAZE/BOMB	A	2	NS	*			GBU-12/16/LGTR, Chaff, Flare	2, 40, 20	
SSL	FLSE	GPS WEAPONS SIM	S	2		*					
SL	6308	GP AR	A	2		*			Mk-82/83/84, CBU-99, 20mm, Chaff, Flare	4/2, 2, 250, 40, 20	
SSL	6309	PGM AR/SCAR SIM	S	2+		*					
SL	FLSE	PGM SCAR	A	2+	NS	*			GBU-12/16, GBU-31/32/38, 20mm, Chaff, Flare	2, 1, 250, 40, 20	
SL	FLSE	GP CAS	A	2		*			Mk-82/83/84, 20mm, Chaff, Flare	4, 250, 40, 20	
SSL	FLSE	BOI/BOC CAS SIM	S	2	NS	*					
SSL	6313	URBAN CAS SIM	S	2		*					
SL	6314	PGM CAS	A	2	NS	*			GBU-12/16, GBU-31/32/38, 20mm, Chaff, Flare	2, 1, 250, 40, 20	
SL	6315	OFF BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6316	DEF BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6317	HA BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	FLSE	BFM STAN CHECK	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SSL	6319	VID SIM	S	2		*					
SL	FLSE	VID/SEM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6321	2VX OCA	A	2		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SSL	FLSE	2VX DCA SIM	S	2		*					
SSL	6323	LOW GP AI SIM	S	2		*					
SL	FLSE	LOW AI	A	2		*			Mk-82/83/84/Mk-76/BDU-48, CATM-9X, CATM-7/120, Chaff, Flare	4/6, 1, 1, 40, 20	
SSL	6325	MED/HIGH AI JDAM SIM	S	2	NS	*					
SL	CHECK	MED/HIGH LGM AI	A	2	NS	*	R		GBU-12/16/LGTR, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	
DESIGNATION EVENTS DIVISION LEAD (DE)											
DL	FLSE	VID/SEM STAN	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
DL	6402	OCA (SWEEP)	A	4		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SDL	6403	DCA (POINT DEFENSE) SIM	S	4	NS	*					
DL	FLSE	DCA (POINT DEFENSE) DTD	A	4		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	

STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITIONS	REFLY	MAINTAIN	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
SDL FLSE	6405	DCA (POINT DEFENSE) FT SIM	S	4	*	*				
DL	6406	POP/STRAFE	A	4	NS	*		BDU-45, 20mm, Chaff, Flare	4, 250, 40, 20	
DL	6407	LOW AI GP	A	4	*	*		Mk-82/83/84/Mk-76/BDU-48, CATM-9X, CATM-7/120, Chaff, Flare	2/6, 1, 1, 40, 20	
DL CHECK	6408	MED/HI AI PGM	A	4	NS	*	R	GBU-12/16/LGTR, GBU-31/32/38, CATM-9X, CATM-7/120, Chaff, Flare	2, 2, 1, 1, 40, 20	
DESIGNATION EVENTS: MISSION COMMANDER (MC)										
MC	6501	LFE DCA	A	6+	(NS)	*		CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
MC FLSE	6502	LFE DAY AI	A	6+	*	*		CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
MC CHECK	6503	LFE NIGHT AI	A	6+	NS	*	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
DESIGNATION EVENTS: WEAPONS SCHOOL GRADUATE INSTRUCTOR (INST)										
INST	6601	WTI			*	*				
INST	6602	MDTC			*	*				
INST	6603	TOPGUN			*	*				
SPECIFIC WEAPONS DELIVERY PROFICIENCY REQUIREMENTS [SURFACE (SSWD) / AERIAL (ASWD)]										
SSWD	6701	M61A1 (A/S)	A	1		180	M	R	20mm	250
SSWD	6702	MK-76	A	1		90	M	R	Mk-76	1
SSWD	6703	BDU-45/MK-83 IN/84 IN	A	1		180			BDU-45/83 IN/84 IN	1
SSWD	6704	MK-82/83/84	A	1		180	M	R	Mk-82/83/84	1
SSWD	6705	LGTR	A	1		90			LGTR	1
SSWD	6706	GBU-12/16/10/24 INERT	A	1		180			GBU-12/16/10/24 INERT	1
SSWD	6707	GBU-12/16/10/24	A	1		365	M	R	GBU-10/12/16/24/LGTR	1
SSWD	6708	CAPTIVE JDAM	A	1		180			Captive JDAM	1
										Live of inert ordnance range, laser safe range.

STAGE	PLAN #	DESCRIPTION	DEVICE	REQ #	CONDITIONS	REFLX	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
SSWD	6709	JDAM INERT	A	1		180		R	Inert JDAM	1	
SSWD	6710	JDAM	A	1		365	M	R	JDAM	1	Live ordnance range.
SSWD	6711	CATM AGM-65E	A	1		180			Captive AGM-65E	1	
SSWD	6712	AGM-65E	A	1		1095			AGM-65E	1	Live Surface-to-Air missile range that is laser safe.
SSWD	6713	ROCKETS	A	1		365			5", 2.75"	4,7	Live or inert range.
SSWD	6714	ILLUM	A	1		365			5", 2.75", LUU-2/19	4,7,4	Inert ordnance range.
SSWD	6715	CBU	A	1		365			Rockeye	1	Live CBU range.
SSWD	6716	FIRE BOMB	A	1		545			Mk-77	1	Live ordnance range.
SSWD	6717	CAPTIVE JSOW	A	1		545			Captive JSOW	1	
SSWD	6718	JSOW	A	1		1095			JSOW	1	Live ordnance range.
SSWD	6719	CATM HARM	A	1		180			Captive AGM-88 HARM	1	
SSWD	6720	HARM	A	1		1095			AGM-88 HARM	1	Live Air-to-Surface missile range with a range safety officer; emitter to the range.
SSWD	6721	CATM SLAM(ER)	A	1		545			Captive SLAM(ER)	1	
SSWD	6722	SLAM(ER)	A	1		1095			SLAM(ER)	1	Live Air-to-Surface missile range with a range safety officer.
SSWD	6723	TALD	A	1		1095			TALD	1	Inert or live ordnance range.
ASWD	6724	CIRCULAR GUN PATTERN	A	2+		730			20mm	500	One banner/dart tow aircraft; live fire aerial gunnery range
ASWD	6725	FWD QTR GUN PATTERN	A	2+		730			20mm	500	One banner/dart tow aircraft; live fire aerial gunnery range
ASWD	6726	AIM-9	A	2+		1095			AIM-9	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc.) One BQM, AQM, or TALD with IR augmentation package.
ASWD	6727	AIM-7	A	2+		1095			AIM-7	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc.) One BQM, AQM, or TALD with radar augmentation package.

STAGE	EVENT	DESCRIPTION	DEVICE	#	COND	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
ASWD	6728	AIM-120	A	2+		1095			AIM-120A/B/C	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP--3, E-2C, etc.). One BQM, AQM, or TALD with radar augmentation package.
ASWD	6729	BANNER TOW	A	2+		1095		Banner		1	
NATOPS AND INSTRUMENT EVALUATION ACADEMIC EVENTS (NTPS / INST)											
NTPS	6801	NATOPS OPEN BOOK EXAM				365	R				
NTPS	6802	NATOPS CLOSED BOOK EXAM				365	R				
NTPS	6803	NATOPS ORAL EXAM				365	R				
INST	6804	INSTRUMENT EXAM				365	R				
INST	6805	INSTRUMENT GND SCHOOL				365	R				CNO approved Instrument Ground School.

2. FA-18D

a. FA-18D Syllabus Matrix

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	COND	REFLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	FLY EVENTS	FLY HOURS	EVENT CONC
FAMILIARIZATION (FAM)																
SFAM	2101	EP SIM		S	1	(NS)	30	M	R			X	1.0			200
FAM	2102	DAY FAM/1V0		A	1		90		R	2101				X	1.3	201
FAM	2103	1V1 AWI		A	2		180		R	2102				X	1.3	202
FAM TOTAL																
AIR- TO-AIR REFUELING (AAR)																
AAR	2201	DAY AAR		A	1+		365		R	2103				X	1.3	210
AAR	2202	NIGHT AAR		A	1+	(NS)	365	M	R	2201				X	1.3	211
AAR TOTAL																
AIR-TO-SURFACE (AS)																
SAS	2301	SACT SIM		S	1+	(NS)	365					X	1.0			230
SAS	2302	SENSOR/TPOD/LST SIM		S	1	(NS)	*					X	1.0			231

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQD #	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SHM HOURS	EVENTS	HIGH HOURS	EVENTS	CONC
AA	2510	2V2 VID (DISSIMILAR)	DL	A	2		180	R	R	2509	2102, 2103, 2501, 2507	3	3.0	7	9.1		269
AA TOTAL																	
LOW ALTITUDE TACTICS (LAT)																	
LAT	2601	LAT SIM	LATI	S	1		*	R	R	2306, 2308	2301	X	1.0				280
LAT	2602	SGL SHIP LAT (2/3D, TRXN, TGT ATTACK)	LATI	A	2		180	M	R	2309, 2601	2102, 2306, 2309			X	1.3		281
LAT	2603	SEC LAT (TRXN, TGT ATTACK) - CRACK	LATI	A	2	NS	*			2602	2102, 2306, 2309			X	1.3		282
LAT TOTAL																	
CLOSE AIR SUPPORT (CAS)																	
SCAS	2701	TYPE I/2/3 CONTROL SIM		S	1		*	R	R	2303	2303	X	1.0				290
CAS	2702	DAY GP CAS		A	2		180	R	R	2309, 2701	2102			X	1.3		291
CAS	2703	NIGHT GP CAS		A	2	NS	180	M	R	2402, 2405, 2702, 8200-8250	2102, 2402, 2702			X	1.3		292
CAS TOTAL																	
CORE SKILLS TOTAL																	
MISSION SKILLS (3000 PHASE EVENTS)																	
CLOSE AIR SUPPORT (CAS)																	
SCAS	3101	TYPE 2/3 CONTROL SIM		S	1+	(NS)	*			2701	2304, 2305	X	1.0				300
CAS	3102	DAY PGM CAS		A	2		180	M	R	2703, 3101	2102			X	1.3		301
CAS	3103	NIGHT PGM CAS		A	2	NS	180	M	R	3102	2102, 2402			X	1.3		302
CAS	3104	URBAN CAS		A	2	(NS)	365	M	R	3103	2102, 2402-NS			X	1.3		303
CAS TOTAL																	
ARMED RECONNAISSANCE (AR)																	
SAR	3201	AR (GP, PGM)		S	2	(NS)	365	M	R	2303, 2304, 2305	2301, 2303, 2304, 2305	X	1.0				310
AR	3202	GP AR		A	2		180	M	R	2309, 2313, 3201	2102, 2307, 2308			X	1.3		311
AR	3203	NIGHT PGM AR		A	2	NS	180	M	R	2402, 2405, 3202	2102, 2308, 2310, 2311, 2402			X	1.3		312
AR TOTAL																	
STRIKE COORDINATION AND RECONNAISSANCE (SCAR)																	
SCAR	3301	DAY SCAR		A	2+		365	M	R	3202	2102, 3202			X	1.3		320
SCAR	3302	NIGHT SCAR		A	2+	NS	365	M	R	2402, 3203, 3301	2102, 2402, 3203			X	1.3		321
SCAR TOTAL																	
SUPPRESSION OF ENEMY AIR DEFENSES (SEAD)																	
SSEAD	3501	SLAM-ER/JSOW SIM		S	1+	(NS)	365	M	R			X	1.0				340
SSEAD	3502	HARM SIM (PP/TOO)		S	1+	(NS)	365	M	R			X	1.0				341
SEAD	3503	SEAD (HARM)		A	2+	(NS)	365	M	R	3502	2102, 2402-NS			X	1.3		342
SEAD TOTAL																	
AIR INTERDICTION (AI)																	
SAI	3601	AI (LGB/JDAM/AGRESSED)		S	2+	(NS)	365	M	R	2305, 2405, 2507	2301, 2501, 2507	X	1.0				350

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQ #	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	EVENTS	FLY HOURS	EVENTS	CONC
AI	3602	DAY LOW ALT AI (GP/AGGRESSED)		A	2+		180	M	R	2309,2510,2603,3601	2102,2103,2309,2507,2509			X	1.3		351
AI	3603	DAY HIGH ALT AI (PGM/AGGRESSED)		A	4		180	M	R	2312,2313,2509,2510,3601	2102,2306,2310,2501,2507,2509			X	1.3		352
AI	3604	NIGHT HIGH ALT AI (LGB / UNAGGRESSED)		A	4	NS	180	M	R	2402,2405,2311,3601	2102,2306,2310,2311,2402			X	1.3		353
AI	3605	NIGHT HIGH ALT AI (JDAM/AGGRESSED)		A	4	NS	180	M	R	2402,3603,3604,8300-8340	2102,2306,2312,2402,2501,2507,2509			X	1.3		354
AI TOTAL																	
ACTIVE AIR DEFENSE (AAD)																	
SAAD	3701	DCA (POINT DEFENSE) W/ EA SIM		S	2+		365	M	R	2508	2501,2507,2508	X	1.0				335
AAD	3702	DAY DCA (AREA DEFENSE)		A	2+		180	M	R	2510,3701	2102,2103,2501,2507,2509,2510			X	1.3		336
AAD	3704	NIGHT DCA (AREA DEFENSE) W/ EA * SEE NOTE BELOW *		A	4	NS	365	M	R	2402,2405,3702	2102,2103,2402,2501,2507,2508,2509,2510			X	1.3		338
* AAD 3703 IS AN FA-18 A+/C EVENT. 3703 IS AN EQUIVALENT CORE PLUS SKILL EVENT, AAD 4502, FOR THE FA-18D. *																	
AAD TOTAL																	
EXPEDITIONARY SHORE-BASED OPERATIONS (EXE)																	
EXP	3800	REVIEW SHORE OPS		A	1	(NS)	365	M	R	2102	2102,2402-NS			0	0.0	1	0.0
EXP TOTAL																	
FORWARD AIR CONTROLLER (AIRBORNE) [FAC(A)]																	
SFAC(A)	3801	TYPE 1/2/3 SIM	FAC(A)I	S	2		*			3104,3302		X	1.0				380
SFAC(A)	3802	ADVERSE WX HI THREAT SIM	FAC(A)I	S	2		*			3801		X	1.0				381
FAC(A)	3803	FW PGM/LOW THREAT	FAC(A)I	A	2	(NS)	90	M	R	2313,3802	2102,2310,2313,3102,3301,2402-NS,3203-NS			X	1.3		382
FAC(A)	3804	FW GP/LOW THREAT	FAC(A)I	A	2		*			2309,3802	2102,2307,2702,3202,3803			X	1.3		383
FAC(A)	3805	RW TYPE 1/2/3 LOW THREAT	FAC(A)I	A	2	(NS)	*			2313,3802	2102,3202,3301,3803,2402-NS,3203-NS,3302-NS			X	1.3		384
FAC(A)	3806	URBAN TYPE 1/2/3	FAC(A)I	A	2	(NS)	*			3104,3802	2102,3104,3803,2402-NS			X	1.3		385
FAC(A)	3807	AIRSPOT	FAC(A)I	A	2	(NS)	*			3802	2102,2402-NS			X	1.3		386
FAC(A)	3808	NIGHT FAC(A)/LOW THREAT	FAC(A)I	A	2	NS	180	M	R	2307,2402,3803	2102,2310,2313,2402,2703,3102,3103,3201,3203,3302,3803			X	1.3		387
FAC(A)	3809	DAY MED THREAT	FAC(A)I	A	2		365		R	3803,3804,3805,3806,3807	2102,2702,3102,3202,3301,3803			X	1.3		388
FAC(A)	3810	NIGHT MED THREAT	FAC(A)I	A	2	NS	365	M	R	2402,3803,3808,3809	2102,2310,2313,2402,2702,2703,3102,3103,3202,3203,3301,3302,3803,3808,3809			X	1.3		389

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQD #	CONDITION	REFLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	SENSORS FILE	HOURS FILE	ANNO ENRPT
FAC (A)	3811	TARGET AREA INTEGRATION (FAC (A) QUAL)	FAC (A) I	A	2	(NS)	365	M	R	3810	2102, 2310, 2313, 2702, 3102, 3202, 3301, 3803, 3809, 2402~NS, 2703~NS, 3103~NS, 3203~NS, 3302~NS, 3808~NS, 3810~NS	2	1.3	X	1.3	390
ESC	3812	FAC (A) ESCORT	A	A	1	(NS)	*			2307, 3103	2102, 2402~NS	2	2.0	X	1.3	391
TACTICAL AIR COORDINATION (AIRBORNE) [TAC(A)] (SEAD)																
TAC (A)	3901	TAC (A) INTRO		A	1+	(NS)	545	M	R	3811, 6207	2102, 2402~NS			X	1.3	392
TAC (A)	3902	MULTI-AGENCY TAC (A) QUAL		A	1+	(NS)	*			3901	2102, 3901, 2402~NS			X	1.3	393
MISSION SKILLS TOTAL																
TAC (A) TOTAL																
FAC (A) TOTAL																
MISSION SKILLS TOTAL																
CORE PLUS SKILLS (4000 PHASE EVENTS)																
FIELD EXPEDITIONARY/CARRIER LANDING QUALIFICATION (FCLP/CQ)																
SCQ	4101	EP CQ SIM		S	1+		*		R	2102	2101	X	1.0			400
FCLP	4102	DAY FCLP		A	1+		365	M	R	2102, 4101	2102			X	1.0	401
FCLP	4103	NIGHT FCLP		A	1+	N	365	M	R	2102, 4102	2102, 4102, 2402~NS			X	1.0	402
CQ	4104	DAY CQ		A	1+		365	M	R	2102, 4102	2102, 4102			X	1.0	403
CQ	4105	NIGHT CQ		A	1+	N	365	M	R	2102, 4103, 4104	2102, 4102, 4103, 4104, 2402~NS			X	1.0	404
FCLP/CQ TOTAL																
MIR TOTAL																
MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)																
SMIR	4201	NTISR SIM		S	2	(NS)	*			2302, 3201	3201	X	1.0			231
MIR	4202	NTISR (THEATRE DEP)		A	2	(NS)	365	M	R	3203, 4201	2102, 2402~NS			X	1.3	236
MIR	4203	EO/IR RECCE		A	1+		365	M	R	2302	2102			X	1.3	496
MIR	4204	SAR/IR RECCE		A	1+	(NS)	365	M	R	4203	2102, 4203, 2402~NS			X	1.3	497
MIR	4205	DAVALINK		A	1+	(NS)	*			4204	2102, 2402~NS			X	1.3	498
MIR TOTAL																
AERIAL ESCORT (AESC)																
AESC	4301	CONVOY ESCORT		A	2	(NS)	365	M	R	3203	2102, 2402~NS			X	1.3	440
AESC	4302	ASSAULT SPT ESCORT		A	2	(NS)	365	M	R	3203	2102, 2402~NS			X	1.3	441
AESC TOTAL																
ATTACK ENEMY MARITIME TARGETS (AMT)																
SAMT	4401	MINE LAYING OPS SIM		S	1+	(NS)	*					X	1.0			410
SAMT	4402	SLAM-ER / HARPOON		S	2	(NS)	365	M	R			X	1.0			
AMT	4403	SSC		A	2	(NS)	365	M	R	3203	2102, 3202, 2402~NS, 3203~NS			X	1.3	411
AMT	4404	WASEX		A	2	(NS)	365	M	R	3604	2102, 3603, 2402~NS, 3604~NS			X	1.3	412
AMT TOTAL																
ACTIVE AIR DEFENSE (AAD)																
AAD	4501	HELO/PROP ATTACKS		A	2	(NS)	365	M	R	3702	2102, 2402~NS			X	1.3	450
AAD	4502	DAY DCA (AREA DEFENSE) W/ EA		A	4		180	M	R	3702	2102, 2103, 2501, 2507, 2508, 2509, 2510			X	1.3	337

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STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQD #	CONDITION	REFLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	PLT EVENTS	PLT HOURS	EVENTS COMB
LARGE FORCE EXERCISE (LFE)																
LFE	4601 DAY LFE			A	6+	NS	365	R	2000 PHASE	2102		0	0.0	2	2.6	470
LFE	4602 NIGHT LFE			A	6+	NS	365	M	2000 PHASE	2102, 2402, 4601		0	0.0	2	2.6	471
LIFE TOTAL																
NIGHT SYSTEMS LOW ALTITUDE TACTICS (NS LAT)																
NS (LOW)	4701 SEC LOW LEVEL/TGT ATTK		NSI (L)	A	2	NS	*		2309, 2402, 2405, 2602, 2603	2102, 2309, 2402,		0	0.0	2	2.6	430
NS (LOW)	4702 SGL LAT W/CHASE		NSI (L)	A	2	NS	*		2402, 2602, 4701	2102, 2402, 2602		0	0.0	2	2.6	431
NS (LOW)	4703 SEC LAT TGT ATTK		NSI (L)	A	2	NS	365	M	R 2402, 2602, 4702	2102, 2309, 2402, 2602		0	0.0	3	3.9	432
NS LAT TOTAL																
FORWARD AIR CONTROLLER (AIRBORNE) [FAC(A)]																
FAC(A)	4813 ADVERSE WX, ELEVATED THREAT			A	2	(NS)	*		R 3811	2102, 2310, 2313, 2702, 3102, 3202, 3301, 3803, 3809, 2402-NS, 2703-NS, 3103-NS, 3203-NS, 3302-NS, 3808-NS, 3810-NS		0	0.0	4	5.2	491
FAC(A)	4814 UAV/UCAV INTEGRATION			A	2	(NS)	*		3811	2102, 2402-NS		0	0.0	4	5.2	492
FAC(A)	4815 NSFS AIRSPOT			A	2	(NS)	*		3811	2102, 2402-NS		0	0.0	4	5.2	493
FAC(A)	4816 AC-130 CFF			A	2	(NS)	*		3811	2102, 2402-NS		0	0.0	4	5.2	494
FAC(A) TOTAL																
OFFENSIVE ANTI-AIR WARFARE (OAAW)																
SOAAW	4901 SWEEP SIM			S	2+		365	M	R 2508	2501, 2507, 2508		0	1.0			330
OAAW	4902 SCREEN/CLOSE ESC			A	2+	(NS)	180	M	R 2510, 4901	2102, 2103, 2507, 2509, 2510, 2402-NS		0	1.0			331
OAAW	4903 PSS			A	4		180	M	R 2510, 4901	2102, 2103, 2507, 2509		0	1.0			332
OAAW TOTAL																
CORE PLUS SKILLS TOTAL																
INSTRUCTOR/STANDARDIZATION TRAINING (5000 PHASE EVENTS)																
LOW ALTITUDE TACTICS INSTRUCTOR (LATI)																
SLATI	5101		LATI	S	2		*		2602	2301		0	1.0			510
LATI	5102	JAW MAWTS-1 LATI	LATI	A	2		*		2602, 5101	2102, 2602, 2306, 2309		0	1.0			511
LATI	5103	PROGRAM GUIDE	LATI	A	2		*		2602, 5102	2102, 2602, 2306, 2309		0	1.0			512
LATI	5104		LATI	A	2		*		R 2602, 5103	2102, 2602, 2306, 2309		0	1.0			513
LATI TOTAL																
NIGHT SYSTEMS INSTRUCTOR (LOW) [NSI (LOW)]																
NSNI (LOW)	5201	JAW MAWTS-1 NSI (LOW)	MAWTS-1	S	2	NS	*		2602, 5104	2301		0	1.0			531
NSI (LOW)	5202	PROGRAM GUIDE	MAWTS-1	A	2	NS	*		R 2402, 2602, 4703, 5201	2102, 2306, 2309, 2402, 2602, 4703		0	1.0			533

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	#	CONDITON	REFLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	EVENTS	ELI HOURS	EVENTS	ELI HOURS	COMT	
<p style="text-align: center;">NSI (LOW) TOTAL</p> <p style="text-align: center;">FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR [FAC(A)I]</p>																			
FAC(A) I	5301		MAWTS-1	A	2	(NS)	*			3803, 3811	3803, 3804, 3808, 2402~NS, 3809~NS								
FAC(A) I	5302	IAW MAWTS-1 FAC(A) I PROGRAM GUIDE	MAWTS-1	A	2	(NS)	*			3803, 3811	2102, 2310, 2313, 2702, 3102, 3202, 3301, 3803, 3809, 3811, 2402~NS, 2703~NS, 3103~NS, 3203~NS, 3302~NS, 3808~NS, 3810~NS								
FAC(A) I	5303		MAWTS-1	A	2	NS	*		R	3803, 3811	2102, 2310, 2313, 2702, 3102, 3202, 3301, 3803, 3809, 3811, 2402~NS, 2703~NS, 3103~NS, 3203~NS, 3302~NS, 3808~NS, 3810~NS								
<p style="text-align: center;">FAC(A) I TOTAL</p>																			
<p style="text-align: center;">FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)</p>																			
FLSE	5401		MAWTS-1	A	2		545	M		6503, 6601/2/3	2102, 2502, 2503, 2504								
FLSE	5402		MAWTS-1	A	2		545	M			2102, 2103, 2506, 2510								
FLSE	5403	IAW MAWTS-1 FLSE PROGRAM GUIDE	MAWTS-1	S	2		545	M			2501, 2507, 2508, 3701			X	1.0				
FLSE	5404		MAWTS-1	S	2+	NS	545	M			2301, 2303, 2305, 3201			X	1.0				
FLSE	5405		MAWTS-1	A	2+	NS	545	M			2102, 2310, 2402, 3103			X	1.3				
FLSE	5406		MAWTS-1	A	4+	NS	545	M	R	5403	2102, 2306, 2310, 2402, 3604, 3605			X	1.3				
<p style="text-align: center;">FLSE TOTAL</p>																			
<p style="text-align: center;">TACTICAL AIR COORDINATION (AIRBORNE) INSTRUCTOR [TAC(A)I]</p>																			
TAC(A) I	5501	IAW MAWTS-1 TAC(A) I PROGRAM GUIDE	MAWTS-1	A	2	(NS)	*		R	3902, 5304									
<p style="text-align: center;">TAC(A) I TOTAL</p>																			
<p style="text-align: center;">INSTRUCTOR/STANDARDIZATION TRAINING TOTAL</p>																			
<p style="text-align: center;">REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS (6000 PHASE EVENTS)</p>																			
<p style="text-align: center;">REQUIRED TRAINING AND/OR PROFICIENCY EVENTS (REQD)</p>																			
RQD	6101	NATOPS CHECK		S/A	1+		365		R	6801, 6802, 6803	2101			X	1.0			600	
RQD	6102	INSTRUMENT CHECK		S/A	1+	(NS)	365		R	6804, 6805				X	1.0			601	
RQD	6103	SEC LEADER PROF FLT		A	2	(NS)	90		R	6326								605	
RQD	6104	DIV LEADER PROF FLT		A	4	(NS)	180		R	6408								606	
RQD	6105	MSN CMDR PROF FLT		A	6+	(NS)	365		R	6503								607	
RQD	6106	FLSE CHECK FLT		A	4	(NS)	545		R	5406									
RQD	6107	A/A JHMCS INTRO		A	1		*			2506	2102, 2103, 2504			X	1.3				
RQD	6108	A/G JHMCS INTRO		A	1		*			2309	2102, 2307, 2309			X	1.3				
RQD	6109	JHMCS QUAD EYE INTRO		A	1	NS	*			2307, 2402	2102, 2308, 2310, 2402			X	1.3				
RQD	6110	STRAT TANKER		A	1+	(NS)	545		R	2201	2102, 2103, 2201, 2202~NS, 2402~NS			X	1.0			604	
SRQD	6111	FCF SIM		S	1		1095		R	2101				X	3.0			603	
<p style="text-align: center;">REQD TOTAL</p>																			
<p style="text-align: center;">QUALIFICATION EVENTS (QUAL)</p>																			
QUAL	6201	DAY CQ		A	1+		*			4104								611	

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STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQD #	CONDITION	REPEAT	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	FILE EVENTS	FILE HOURS	CONC EVENTS
QUAL	6202	NIGHT CQ		A	1+	N	*			4105						612
QUAL	6203	LAT QUAL		A	2		*			2602,2603						610
QUAL	6204	NS (LOW) QUAL		A	2	NS	*			4703						616
QUAL	6205	LSO QUAL		-			*			6201,6202						618
QUAL	6205	ECF QUAL		A	1+		*			6111	2102		X	1.3	619	
QUAL	6207	FAC(A) QUAL		A	2	(NS)	*			3811					614	
QUAL	6208	TAC(A) QUAL		A	1+	(NS)	*			3902					617	
QUAL TOTAL																
DESIGNATION EVENTS: SECTION LEAD (SL)																
SL	6301	FAM/FORM 1V1.ATTP	DL	A	2		*			2000,3000 EVTS	2102,2103,2402			X	1.3	
SSL	6302	SACT SIM	DL	S	2		*				2301,2601					
SL	6303	GP HI/MED ANGLE DIVES	DL	A	2	NS	*			6302	2102,2303,2307,2402			X	1.3	
SL FLSE	6304	HD POPS AND STRAFE	FLSE	A	2		*			6303	2102,2308,2309,2602			X	1.3	
SSL	6305	LGW/TPOD SIM	DL	S	2	NS	*			6302	2305,2310,2402			X	1.5	
SL	6306	BUDDY LASE/BOMB	DL	A	2	NS	*			6305	2102,2311,2313,2402			X	1.3	
SSL FLSE	6307	GPS WEAPONS SIM	FLSE	S	2		*			6305	2304,3501			X	1.5	
SL	6308	GP AR	DL	A	2		*			6304	2102,2307,2308,3202			X	1.3	
SSL	6309	PGM AR/SCAR SIM	DL	S	2+		*			6307	2304,2305,3201			X	1.5	
SL FLSE	6310	PGM SCAR	FLSE	A	2+	NS	*			6309	2102,2310,2313,2402,3203,3301,3302			X	1.3	
SL FLSE	6311	GP CAS	FLSE	A	2		*			6304	2102,2307,2702			X	1.3	
SSL FLSE	6312	BOT/BOC CAS SIM	FLSE	S	2	NS	*			6305,6307	2305,2304,2402,2701,3101			X	1.5	
SSL	6313	URBAN CAS SIM	DL	S	2		*			6312	3101			X	1.5	
SL	6314	PGM CAS	DL	A	2	NS	*			6306,6312	2102,2310,2311,2402,3103			X	1.3	
SL	6315	OFF BFM	DL	A	2		*			6301	2102,2502			X	1.3	
SL	6316	DEF BFM	DL	A	2		*			6315	2102,2503			X	1.3	
SL	6317	HA BFM	DL	A	2		*			6316	2102,2504			X	1.3	
SL FLSE	6318	BFM STAN CHECK	FLSE	A	2		*			6317	2102,2504			X	1.3	
SSL	6319	VID SIM	DL	S	2		*			6318	2501			X	1.5	
SL FLSE	6320	VID/SEM	FLSE	A	2		*			6319	2102,2103,2506,2510			X	1.3	
SL	6321	2VX OCA	DL	A	2		*			6320	2102,2103,2509			X	1.3	
SSL FLSE	6322	2VX DCA SIM	FLSE	S	2		*			6320	2501,2507,2508,3701			X	1.5	
SSL	6323	LOW GP AI SIM	DL	S	2		*			6322	2301,3502			X	1.5	
SL FLSE	6324	LOW AI	FLSE	A	2		*			6323	2102,2306,2309,2509,3602,2602~NS			X	1.3	
SSL	6325	MED/HIGH AI JDAM SIM	DL	S	2	NS	*			6323	2301,2304,2402,2507,3601			X	1.5	
SL CHECK	6326	MED/HIGH LGM AI	CO DESIG	A	2	NS	*			6301~ 6325,8630,8660	2102,2306,2310,2311,2402,2509,3603			X	1.3	
SL TOTAL																
DESIGNATION EVENTS: DIVISION LEAD (DL)																
DL FLSE	6401	VID/SEM STAN	FLSE	A	2		*			6326	2102,2103,2506,2510			X	1.3	
DL	6402	OCA (SWEEP)	MC	A	4		*			6401	2102,2103			X	1.3	
SDL	6403	DCA (POINT DEFENSE)	MC	S	4	NS	*			6402	2501,2507,2508,3701			X	1.5	

STAGE	EVENT	DESCRIPTION	EVALUATOR	DEVICE	REQ #	CONDITION	REPLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	FLT EVENTS	FLT HOURS	EVENT CONV
DL FLSE	6404	DCA (POINT DEFENSE) DTD	FLSE	A	4		*			6403	2102, 2103, 2509, 3702			X	1.3	
SDL FLSE	6405	DCA (POINT DEFENSE) FT SIM	FLSE	S	4		*			6404	2501, 2507, 2508, 3701	X	1.5			
DL	6406	POP/STRAFE	MC	A	4	NS	*			6405	2102, 2307, 2308, 2309, 2402			X	1.3	
DL	6407	LOW AI GP	MC	A	4		*			6406	2102, 2306, 2309, 2402, 2507, 2509, 3602			X	1.3	
DL CHECK	6408	MED/HI AI PGM	CO DESIG	A	4	NS	*	R		6407, 8640, 8641	2102, 2306, 2310, 2501, 2507, 2509, 3603		3.0	X	1.3	
DL TOTAL																
DESIGNATION EVENTS: MISSION COMMANDER (MC)																
MC	6501	LFE DCA	WTI	A	6+	(NS)	*			6408	2102, 2103, 2501, 2507, 3702			X	1.3	
MC FLSE	6502	LFE DAY AI	FLSE	A	6+		*			6408	2102, 3603, 4601			X	1.3	
MC CHECK	6503	LFE NIGHT AI	CO DESIG	A	6+	NS	*	R		6501, 6502, 8620	2102, 2402, 3604, 3605, 4601, 4602		0.0	X	1.3	
MC TOTAL																
DESIGNATION EVENTS: WEAPONS SCHOOL GRADUATE INSTRUCTOR (INST)																
INST	6601	WTI					*									
INST	6602	MDTC					*									
INST	6603	TOPGUN					*									
INST TOTAL																
SPECIFIC WEAPONS DELIVERY PROFICIENCY REQUIREMENTS [SURFACE (SSWD); AERIAL (ASWD)]																
SSWD	6701	M61A1 (A/S)		A	1		180	M	R							711
SSWD	6702	MK-76		A	1		90	M	R							
SSWD	6703	BDU-45/MK-83 IN/84 IN		A	1		180				6702					710
SSWD	6704	MK-82/83/84		A	1		180	M	R		6702, 6703					710
SSWD	6705	LGTR		A	1		90		R							
SSWD	6706	GBU-12/16/10/24 INERT		A	1		180		R		6705					718
SSWD	6707	GBU-12/16/10/24		A	1		365	M	R		6705, 6706					718
SSWD	6708	CAPTIVE JDAM		A	1		180									719
SSWD	6709	JDAM INERT		A	1		180		R		6708					720
SSWD	6710	JDAM		A	1		365	M	R		6708, 6709					720
SSWD	6711	CATM AGM-65E		A	1		180									716
SSWD	6712	AGM-65E		A	1		1095				6711					717
SSWD	6713	ROCKETS		A	1		365									714
SSWD	6714	ILLUM		A	1		365									715
SSWD	6715	CBU		A	1		365									712
SSWD	6716	FIRE BOMB		A	1		545									713
SSWD	6717	CAPTIVE JSOW		A	1		545									721
SSWD	6718	JSOW		A	1		1095				6717					722
SSWD	6719	CATM HARM		A	1		180									723

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STAGE	LINE #	DESCRIPTION	EVALUATOR	DEVICE	#	COND	REPLY	MAINTAIN	REFRESH	PREREQUISITE	CHAINING	SIM EVENTS	SIM HOURS	EVENTS	ELM HOURS	EVENTS	
SSWD	6720	HARM	A	A	1		1095			6719							724
SSWD	6721	CATM SLAM (ER)	A	A	1		545										725
SSWD	6722	SLAM (ER)	A	A	1		1095			6721							726
SSWD	6723	TALD	A	A	1		1095										727
ASWD	6724	CIRCULAR GUN PATTERN	A	A	2+		730			2510							700
ASWD	6725	FWD QTR GUN PATTERN	A	A	2+		730			6724							701
ASWD	6726	AIM-9	A	A	2+		1095										702
ASWD	6727	AIM-7	A	A	2+		1095										703
ASWD	6728	AIM-120	A	A	2+		1095										704
ASWD	6729	BANNER TOW	A	A	2+		1095										705
SSWD/ASWD TOTAL												0	0.0	0	0.0		
NATOPS AND INSTRUMENT EVALUATION ACADEMIC EVENTS (NTPS / INST)																	
NTPS	6801	NATOPS OPEN BOOK EXAM					365		R								
NTPS	6802	NATOPS CLOSED BOOK EXAM					365		R								
NTPS	6803	NATOPS ORAL EXAM					365		R								
INST	6804	INSTRUMENT EXAM					365		R								
INST	6805	INSTRUMENT GND SCHOOL					365		R								
NTPS / INST TOTAL												0	0.0	0	0.0		
REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS TOTAL												15	21.0	29	37.7		
VMEA (AW) EA-18D TOTAL												44	50	120	154.8		

b. FA-18D Ordnance and External Support Requirements

STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITION	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
CORE SKILLS (2000 PHASE EVENTS)											
FAMILIARIZATION (FAM)											
SFAM	2101	EP SIM	S	1	(NS)	30	M	R		MDA	
FAM	2102	DAY FAM/1V0	A	1		90		R			SUA, max altitude at least 30,000' above ground level.
FAM	2103	1V1 AWI	A	2		180		R	CATM-9X	1	MDA
AIR TO AIR REFUELING (AAR)											
AAR	2201	DAY AAR	A	1+		365		R			AAR: One compatible tactical or strategic tanker.
AAR	2202	NIGHT AAR	A	1+	(NS)	365	M	R			AAR: One compatible tactical or strategic tanker.
AIR TO SURFACE (AS)											
SAS	2301	SACT SIM	S	1+	(NS)	365					
SAS	2302	SENSOR/TPOD/LST SIM	S	1	(NS)	*					MDA
SAS	2303	HI/MED/LOW ANGLE DIVE (GP/GUN/CBU/ROCKET) SIM	S	1+	(NS)	365					
SAS	2304	JDAM/LJDAM SIM	S	1+	(NS)	365		R			
SAS	2305	LMAV/LGB/DMLGB SIM	S	1+	(NS)	365					
AS	2306	SACT	A	2	(NS)	365		R	Chaff, Flare, FACKS Pod	40, 20, 1	MDA, URBN, TRG, COMPLEX; EW/TACTS.
AS	2307	HI ANGLE/MED ANGLE DIVE	A	2+	(NS)	90	M	R	Mk-76, Chaff, Flare	12, 40, 20	RSTD, RKD RNG, STRAFE, HVY INERT, EXP.
AS	2308	MED/LOW STRAFE	A	2+	(NS)	90	M	R	Mk-76, 20mm, Chaff, Flare	6, 500, 40, 20	RSTD, RKD RNG, STRAFE, HVY INERT, EXP.
AS	2309	SGL/SEC LOW ANGLE POP	A	2+	(NS)	180		R	BDU-48, Mk-76, Chaff, Flare	6, 6, 40, 20	RSTD, RKD RNG, HVY INERT, EXP.
AS	2310	TPOD DELIVERIES	A	2+	(NS)	180			Mk-76, LGTR, Chaff, Flare	6, 2, 40, 20	RSTD, RKD RNG, LSR, IR TGT, RDR TGT, LGB, EXP.
AS	2311	LMAV/LGB ATK	A	2+	(NS)	365			LGTR, CATM-65E	2, 1	RSTD, RKD RNG, LGB; Laser designator (ground or airborne).
AS	2312	JDAM	A	2+	(NS)	*			Captive JDAM, Chaff, Flare	1, 40, 20	RSTD, TGT, JDAM.
AS	2313	BUDDY LAZE/BUDDY BOMB	A	2+	(NS)	180	M	R	LGTR, Chaff, Flare	2, 40, 20	RSTD, TGT, LGB, EXP.
NIGHT SYSTEMS (NS)											
SNS	2401	FAM SIM	S	2	NS	*					
NS	2402	FAM/FORM/AWI	A	2	NS	180	M	R	CATM-9X	1	MOR.
NS	2403	2V2 INTERCEPTS	A	2	NS	*			CATM-9X, CATM-78/120, Chaff, Flare	1, 1, 40, 20	MOA, MACH 1+, EXP; Two adversaries, (GCI).
NS	2404	LOW/MED ANGLE DIVE/POP	A	2	NS	*		R	Mk-76, Chaff, Flare	12, 40, 20	RSTD, RKD RNG, EXP.

STAGE	PLAN	DESCRIPTION	DEVICE	HEAD #	CONDITION	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
NS	2405	SEC IGB DELIVERIES	A	2	NS	*			LGTR,Chaff,Flare	2,40,20	RSTD, RKD RNG, TGT, IGB.
AIR - TO - AIR (AA)											
SAA	2501	RADAR/SRR MECH SIM	S	1		365					
AA	2502	1V1 OFFENSIVE BFM	A	2		180	M	R	CATM-9X,Chaff,Flare	1,40,20	AA, EXP.
AA	2503	1V1 DEFENSIVE BFM	A	2		180	M	R	CATM-9X,Chaff,Flare	1,40,20	AA, EXP.
AA	2504	1V1 NEUTRAL BFM (HA/FLAT/ROLLER)	A	2		90	M	R	CATM-9X,Chaff,Flare	1,40,20	AA, EXP.
AA	2505	1V1 DISSIMILAR BFM	A	1		365	M	R	CATM-9X,Chaff,Flare	1,40,20	AA, EXP; One dissimilar adversary.
AA	2506	2V1/2V2 VIS SETS (DISSIMILAR)	A	2		180	M	R	CATM-9X,Chaff,Flare	1,40,20	AA, EXP; Two (dissimilar) adversaries.
SAA	2507	BVR SIM	S	1		365					
SAA	2508	EA SIM	S	1		365					
AA	2509	2V2 BVR	A	2		180		R	CATM-9X, CATM-7/120, Chaff, Flare	1,1,40,20	AA, EXP, MACH 1+, TACTS; Two (Dissimilar) Adversaries.
AA	2510	2V2 VID (DISSIMILAR)	A	2		180		R	CATM-9X, CATM-7/120, Chaff, Flare	1,1,40,20	AA, EXP, MACH 1+, TACTS; Two (Dissimilar) Adversaries.
LOW ALTITUDE TACTICS (LAT)											
SLAT	2601	LAT SIM	S	1		*		R			
LAT	2602	SGL SHIP LAT (2/3D, TRXN, TGT ATTACK)	A	2		180	M	R	CATM-9X,Chaff,Flare	1,40,20	LAT
LAT	2603	SEC LAT (TRXN, TGT ATTACK) - CKECK	A	2		*			CATM-9X,Chaff,Flare	1,40,20	LAT
CLOSE AIR SUPPORT (CAS)											
SCAS	2701	TYPE I/2/3 CONTROL SIM	S	1		*		R	Mx-82/83, 25mm, TPOD	4,250,1	
CAS	2702	DAY GP CAS	A	2		180		R	Mx-82/83, 25mm, Chaff, Flare	4,250,40,20	RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP; JTAC or FAC(A).
CAS	2703	NIGHT GP CAS	A	2	NS	180	M	R	Mx-82/83, 25mm, Chaff, Flare	4,250,40,20	RSTD, TGT, SST, JCAS, TGT-MOVE, TGT-DISP; JTAC or FAC(A).
MISSION SKILLS (3000 PHASE EVENTS)											
CLOSE AIR SUPPORT (CAS)											
SCAS	3101	TYPE 2/3 CONTROL SIM	S	1+	(NS)	*			JDM, GBU10/12/16	2,2	
CAS	3102	DAY PGM CAS	A	2		180	M	R	GBU-31/32/38, GBU-12/16, 20mm, Chaff, Flare	1,2,250,40,20	RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDM; JTAC or FAC(A).
CAS	3103	NIGHT PGM CAS	A	2	NS	180	M	R	GBU-31/32/38, GBU-12/16, 20mm, Chaff, Flare	1,2,250,40,20	RSTD, TGT, SST, EW, JCAS, TGT-DISP, TGT-MOVE, JDM; JTAC or FAC(A).
CAS	3104	URBAN CAS	A	2	(NS)	365	M	R	GBU-31/32/38 inert, GBU-12/16 inert, 20mm, Chaff, Flare	1,2,250,40,20	RSTD, TGT, SST, EW, JCAS, URBN WPNS, TGT-DISP, TGT-MOVE, EXP, JDM; JTAC or

STAGE	EVENT	DESCRIPTION	DEVICE	#	CONDITION	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
ARMED RECONNAISSANCE (AR)											
SAR	3201	AR (GP, PGM)	S	2	(NS)	365	M	R	Mk-82/83/84, 20mm, Chaff, Flare	4, 250, 40, 20	RSTD, TGT, HE, SST, TGT-DISP, TGT-MOVE, EW, EXP, LSR.
AR	3202	GP AR	A	2		180	M	R	Mk-82/83, 20mm, Chaff, Flare	1, 250, 40, 20	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.
AR	3203	NIGHT PGM AR	A	2	NS	180	M	R	LMAV/Captive IMAV/GBU-31/32/38, GBU-10/12/16, 20mm, Chaff, Flare	1, 1, 250, 40, 20	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP.
STRIKE COORDINATION AND RECONNAISSANCE (SCAR)											
SCAR	3301	DAY SCAR	A	2+		365	M	R	2.75"/5.0" Rocket Pods/Mk-82/83/84/GBU-12/16/CBU-99, 20mm, Chaff, Flare	2/4, 250, 40, 20	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR; 1 section AR assets.
SCAR	3302	NIGHT SCAR	A	2+	NS	365	M	R	2.75"/5.0" Rocket Pods/Mk-82/83/84/GBU-12/16/CBU-99, 20mm, Chaff, Flare	2/4, 250, 40, 20	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR; 1 section AR assets.
SUPPRESSION OF ENEMY AIR DEFENSES (SEAD)											
SSEAD	3501	SLAM-ER/JSOW SIM	S	1+	(NS)	365	M	R			
SSEAD	3502	HARM SIM (PP/TOO)	S	1+	(NS)	365	M	R			
SEAD	3503	SEAD (HARM)	A	2+	(NS)	365	M	R	CATM-88/AGM-88, Chaff, Flare	1, 40, 20	MOA, TACTS, Hi Fi EW, ARM.
AIR INTERDICTION (AI)											
SAI	3601	AI (LGB/JDAM/AGRESSED)	S	2+	(NS)	365	M	R	GBU-10/12/16, JDAM, AIM-7/120, AIM-9	1, 1, 1, 2	TGT, AA, EW, SST, TACTS, TGT-DISP, LSR; Two adversaries and one tanker (if AAR required).
AI	3602	DAY LOW ALT AI (GP/AGRESSED)	A	2+		180	M	R	Mk-82/83/84, CATM-9X, CATM-7/120, Chaff, Flare	4, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR, JDAM.
AI	3603	DAY HIGH ALT AI (PGM/AGRESSED)	A	4		180	M	R	GBU-31/32/38/GBU-12/16, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR, JDAM.
AI	3604	NIGHT HIGH ALT AI (LGB / UNAGRESSED)	A	4	NS	180	M	R	GBU-10/12/16, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR; One tanker (if AAR required).
AI	3605	NIGHT HIGH ALT AI (JDAM/AGRESSED)	A	4	NS	180	M	R	GBU-31/32/38 Live/inert, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	RSTD, TGT, AA, EW, SST, TACTS, TGT-DISP, LSR, JDAM; Two adversaries and one tanker (if AAR required).
ACTIVE AIR DEFENSE											
SAAD	3701	DCA (POINT DEFENSE) W/ EA SIM	S	2+		365	M	R			Dissimilar Adversaries
AAD	3702	DAY DCA (AREA DEFENSE)	A	2+		180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.

STAGE	LINE ITEM	DESCRIPTION	DEVICE	REQ #	CONDITION	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
AAD	3704 EA *	NIGHT DCA (AREA DEFENSE) W/ SEE NOTE BELOW *	A	4	NS	365	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1,1,40,20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.
* AAD 3703 IS AN FA-18 A+/C EVENT. 3703 IS AN EQUIVALENT CORE PLUS SKILL EVENT, AAD 4502, FOR THE FA-18D. *											
EXPEDITIONARY OPERATIONS (EXP)											
EXP	3800	REVIEW SHORE OPS	A	1	(NS)	365	M	R			Shore based landing site away from home station.
FORWARD AIR CONTROLLER (AIRBORNE) [FAC(A)]											
SFAC(A)	3801	TYPE 1/2/3 SIM	S	2		*					
SFAC(A)	3802	ADVERSE WX HI THREAT SIM	S	2		*					
FAC(A)	3803	FW PGM/LOW THREAT	A	2	(NS)	90	M	R	GBU-12/16, 20mm, Chaff, Flare	2,250,40,20	RSTD, JCAS, SST, EXP; One or two FW CAS elements with live, inert or captive PGMs or Laser Guided Weapons and a ground FAC. LSTs are desired to aid in Type 1 control.
FAC(A)	3804	FW GP/LOW THREAT	A	2		*			2.75"/5.0" RP Rocket Pods, Chaff, Flare	2,40,20	RSTD, JCAS, SST, EXP; One or two FW CAS elements with live or inert GP ordnance and a ground FAC.
FAC(A)	3805	RW TYPE 1/2/3 LOW THREAT	A	2	(NS)	*			GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2,40,20	RSTD, JCAS, SST, EXP; One or two RW CAS elements with live/captive Hellfire and a ground FAC.
FAC(A)	3806	URBAN TYPE 1/2/3	A	2	(NS)	*			CATM-65E/AGM-65E, GBU-12/16, 20mm, Chaff, Flare	1,1,250,40,20	JCAS, SST, EXP, URBAN WPNS; One or more FW or RW CAS elements, and a ground FAC, Ground FAC/JTAC should have capability to receive TPOD video via datalink.
FAC(A)	3807	AIRSPOT	A	2	(NS)	*			Chaff, Flare	40,20	JCAS, SST, EXP; Indirect Fire Support (IDFS) asset (mortars or artillery) and a ground FAC or FO. IDFS asset requires a minimum of 10 HE rds, 2 WP rds, and 8 illum rds.
FAC(A)	3808	NIGHT FAC(A)/LOW THREAT	A	2	NS	180	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, LUU-19/LUU-2/2.75" Illum Rocket Pod, Chaff, Flare	2,4/1,40,20	JCAS, SST, EXP; One or two FW CAS elements and a ground FAC.
FAC(A)	3809	DAY MED THREAT	A	2		365	R		GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2,40,20	JCAS, EXP; One FW CAS element, One additional Fire support asset (RW CAS/UAV)

STAGE	EVENT	DESCRIPTION	DEVICE	REQD #	CONDITION	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FAC (A)	3810	NIGHT MED THREAT	A	2	NS	365	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	CAS/IDFS) and a ground FAC. If IDFS is to be used 10 HE rds, 4 WP rds for marking or suppression required. JCAS, EXP; One FW CAS element, One additional Fire support asset (RW CAS/UAV CAS/IDFS) and a ground FAC. If IDFS is to be used 10 HE rds, 4 WP rds for marking or suppression required.
FAC (A)	3811	TARGET AREA INTEGRATION (FAC(A) QUAL)	A	2	(NS)	365	M	R	GBU-12/16/2.75"/5.0" RP Rocket Pods, Chaff, Flare	2, 40, 20	JCAS, EXP; Minimum of 3 Fire Support assets (FW CAS/RW CAS/UAV CAS/IDFS) and a ground FAC. IDFS asset requires 10 HE rds, 4 WP rds.
ESC	3812	FAC(A) ESCORT	A	1	(NS)	*			AGM-65E/CATM-65E, GBU-12/16/2.75"/5.0" Rocket Pods, Chaff, Flare	1, 1/2, 40, 20	MOA, JCAS, EXP; 2+ CAS aircraft. Indirect fire and C3 agencies preferred.
CORE PLUS SKILLS (4000 PHASE EVENTS)											
TACTICAL AIR COORDINATION (AIRBORNE) [FAC(A)] (SEAD)											
TAC (A)	3901	TAC(A) INTRO	A	1+	(NS)	545	M	R			
TAC (A)	3902	MULTI-AGENCY TAC(A) QUAL	A	1+	(NS)	*					
FIELD EXPEDITIONARY / CARRIER LANDING QUALIFICATION (FCLP / CQ)											
SCQ	4101	EP CQ SIM	S	1+		*		R			LSO
FCLP	4102	DAY FCLP	A	1+		365		R			EAF or airfield with FCLP pattern, carrier box, and fresnel lens; LSO
FCLP	4103	NIGHT FCLP	A	1+	N	365	M	R			EAF or airfield with FCLP pattern, carrier box, and fresnel lens. For CQ, CV-compatible ACLS or ICLS; LSO.
CQ	4104	DAY CQ	A	1+		365		R			LSO
CQ	4105	NIGHT CQ	A	1+	N	365	M	R			LSO
MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)											
SMIR	4201	NTISR SIM	S	2	(NS)	*					
MIR	4202	NTISR (THEATRE DEP)	A	2	(NS)	365	M	R			
MIR	4203	EO/IR RECCE	A	1+		365					
MIR	4204	SAR/IR RECCE	A	1+	(NS)	365	M	R			
MIR	4205	DATALINK	A	1+	(NS)	*					

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STAGE	EVENT	DESCRIPTION	DEVICE	ROD #	CONDITION	ATTITUDE	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
AERIAL ESCORT (AESC)											
AESC	4301	CONVOY ESCORT	A	2	(NS)	365	M	R	CATM-9X, BDU-45/Mk-83 inert, Chaff, Flare	1, 4, 40, 20	RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT; Minimum 1 vehicle convoy. 2 rotary wing escort aircraft desired.
AESC	4302	ASSAULT SPT ESCORT	A	2	(NS)	365	M	R	CATM-9X, BDU-45/Mk-83 inert, Chaff, Flare	1, 4, 40, 20	RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT; Minimum 1 Helicopter/Assault support package.
ATTACK ENEMY MARITIME TARGETS (AMT)											
SAMT	4401	MINE LAYING OPS SIM	S	1+	(NS)	*					
SAMT	4402	SLAM-ER / HARPOON	S	2	(NS)	365	M	R			
AMT	4403	SSC	A	2	(NS)	365	M	R			MOA; Controlling naval surface platform.
AMT	4404	WASEX	A	2	(NS)	365	M	R			MOA; Controlling naval surface platform.
ACTIVE AIR DEFENSE (AAD)											
AAD	4501	HELO/PROP ATTACKS	A	2	(NS)	365	M	R	CATM-9X, Chaff, Flare	1, 40, 20	AA, EXP; One or more helicopters/prop aircraft.
AAD	4502	DAY DCA (AREA DEFENSE) W/ EA	A	4		180	M	R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	AA, EXP, MACH 1+, TACTS; Two or more adversaries, TACTS range.
LARGE FORCE EXERCISE (LFE)											
LFE	4601	DAY LFE	A	6+		365		R			AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP; One tanker (if AAR required), 4 or more adversaries.
LFE	4602	NIGHT LFE	A	6+	NS	365	M	R			AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP; One tanker (if AAR required), 4 or more adversaries.
NIGHT SYSTEMS LOW ALTITUDE TACTICS (NS, LAT)											
NS (LOW)	4701	SEC LOW LEVEL/TGT ATTK	A	2	NS	*			Mk-76, Chaff, Flare	6, 40, 20	RSTD, RKD RNG, EXP; Approved MTR, scored raked range.
NS (LOW)	4702	SGL LAT W/CHASE	A	2	NS	*					LAT; Certified LAT Course.
NS (LOW)	4703	SEC LAT TGT ATTK	A	2	NS	365	M	R	Mk-76, Chaff, Flare	6, 40, 20	LAT; Certified LAT Course.

STAGE	EVENT	DESCRIPTION	DEVICE	REQD #	CONDITION	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FORWARD AIR CONTROLLER (AIRBORNE) [FAC(A)]											
FAC(A)	4813	ADVERSE WX, ELEVATED THREAT	A	2	(NS)	*		R	2.75"/5.0" RP Rocket Pods/Mk-82/83,Chaff,Flare	2/4,40,20	MOA, JCAS, EXP; One or two FW CAS elements, one IDFS asset and a ground FAC. IDFS asset requires 10 HE rds, 4 WP rds.
FAC(A)	4814	UAV/UCAV INTEGRATION	A	2	(NS)	*			Chaff,Flare	40,20	MOA, JCAS, EXP; UAV/UCAV asset with captive IGWs and a ground FAC or FO.
FAC(A)	4815	NSFS AIRSPOT	A	2	(NS)	*			Chaff,Flare	40,20	MOA, JCAS, EXP; Naval Surface Fire Support asset and a ground FAC or FO or NGLQ. NSFS asset requires a minimum of 10 HE rds, 2 WP rds, and 8 Illum rds.
FAC(A)	4816	AC-130 CFF	A	2	(NS)	*			Chaff,Flare	40,20	MOA, JCAS, EXP; One AC-130 and a ground FAC.
OFFENSIVE ANTI-AIR WARFARE (OAAW)											
SOAAW	4901	SWEEP SIM	S	2+			365	M			
OAAW	4902	SCREEN/CLOSE ESC	A	2+	(NS)		180	M	CATM-9X,CATM-7/120,Chaff,Flare	1,1,40,20	AA, EXP, MACH 1+, TACTS; Two or more adversaries.
OAAW	4903	PSS	A	4			180	M	CATM-9X,CATM-7/120,Flare,Chaff	1,1,20,40	AA,EXP,MACH 1+,TACTS; Two or more dissimilar adversaries, TACTS range.
INSTRUCTOR / STANDARDIZATION TRAINING (5000 PHASE EVENTS)											
LOW ALTITUDE TACTICS INSTRUCTOR (LATI)											
SLATI	5101		S	2		*					
LATI	5102	IAW MAWTS-1 LATI PROGRAM GUIDE	A	2		*					
LATI	5103		A	2		*					
LATI	5104		A	2		*		R			
NIGHT SYSTEMS INSTRUCTOR (LOW) [NSI(LOW)]											
NSNI (LOW)	5201	IAW MAWTS-1 NSI(LOW) PROGRAM GUIDE	S	2	NS	*					
NSI (LOW)	5202		A	2	NS	*		R			
FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR [FAC(A)]											
FAC(A)I	5301		A	2	(NS)	*					
FAC(A)I	5302	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	A	2	(NS)	*					
FAC(A)I	5303		A	2	NS	*		R			
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR [FLSE]											
FLSE	5401	IAW FLSE PROGRAM GUIDE	A	2			545	M			
FLSE	5402		A	2			545	M			
SFLSE	5403		S	2			545	M			
SFLSE	5404		S	2+	NS		545	M			
FLSE	5405		A	2+	NS		545	M			

STAGE	FUNCTION	DESCRIPTION	DEVICE	REQ #	CONDITION	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
FLSE	5406		A	4+	(NS)	545	M	R			
TACTICAL AIR COORDINATION (AIRBORNE) INSTRUCTOR TAC(A) I											
TAC (A) I	5501	IAW MAWTS-1 TAC (A) I PROGRAM GUIDE	A	2	(NS)	*		R			
REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS (6000 PHASE EVENTS)											
REQUIRED TRAINING AND/OR PROFICIENCY EVENTS (REQD)											
RQD	6101	NATOPS CHECK	S/A	1+		365		R			
RQD	6102	INSTRUMENT CHECK	S/A	1+	(NS)	365		R			
RQD	6103	SEC LEADER PROF FLT	A	2	(NS)	90		R			
RQD	6104	DIV LEADER PROF FLT	A	4	(NS)	180		R			
RQD	6105	MSN CMDR PROF FLT	A	6+	(NS)	365		R			
RQD	6106	FLSE CHECK FLT	A	4	(NS)	545		R			
RQD	6107	A/A JHMCS INTRO	A	1		*					
RQD	6108	A/G JHMCS INTRO	A	1		*					
RQD	6109	JHMCS QUAD EYE INTRO	A	1	NS	*					
RQD	6110	STRAT TANKER	A	1+	(NS)	545		R			
SRQD	6111	FCF SIM	S	1		1095		R			
QUALIFICATION EVENTS (QUAL)											
QUAL	6201	DAY CO	A	1+		*					
QUAL	6202	NIGHT CO	A	1+	N	*					
QUAL	6203	LAT QUAL	A	2		*					
QUAL	6204	NS (LOW) QUAL	A	2	NS	*					
QUAL	6205	LSO QUAL	-			*					
QUAL	6206	FCF QUAL	A	1+		*					
QUAL	6207	FAC (A) QUAL	A	2	(NS)	*					
QUAL	6208	TAC (A) QUAL	A	1+	(NS)	*					
DESIGNATION EVENTS: SECTION LEAD (SL)											
SL	6301	FAM/FORM 1V1 ATTP	A	2		*			CATM-9, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SSL	6302	SACT SIM	S	2		*					
SL	6303	GP HI/MED ANGLE DIVES	A	2	NS	*			Mk-76, Chaff, Flare	12, 40, 20	
SL FLSE	6304	HD POPS AND STRAFE	A	2		*			BDU-48, 20mm, Chaff, Flare	6, 500, 40, 20	
SSL	6305	LGW/TPOD SIM	S	2	NS	*					
SL	6306	BUDDY LAISE/BOMB	A	2	NS	*			GBU-12/16/LGTR, Chaff, Flare	2, 40, 20	
SSL FLSE	6307	GPS WEAPONS SIM	S	2		*					
SL	6308	GP AR	A	2		*			Mk-82/83/84, CBU-99, 20mm, Chaff, Flare	4/2, 2, 250, 40, 20	
SSL	6309	PGM AR/SCAR SIM	S	2+		*					
SL FLSE	6310	PGM SCAR	A	2+	NS	*			GBU-12/16, GBU-31/32/38, 20mm, Chaff, Flare	2, 1, 250, 40, 20	
SL FLSE	6311	GP CAS	A	2		*			Mk-82/83/84, 20mm, Chaff, Flare	4, 250, 40, 20	
SSL FLSE	6312	BOT/BOC CAS SIM	S	2	NS	*					

STAGE	ITEM #	DESCRIPTION	DEVICE	REQ #	CONDITION	REPLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
SSL	6313	URBAN CAS SIM	S	2		*					
SL	6314	PGM CAS	A	2	NS	*			GBU-12/16, GBU-31/32/38, 20mm, Chaff, Flare	2, 1, 250, 40, 20	
SL	6315	OFF BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6316	DEF BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6317	HA BFM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL FLSE	6318	BFM STAN CHECK	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SSL	6319	VID SIM	S	2		*					
SL FLSE	6320	VID/SEM	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
SL	6321	2VX OCA	A	2		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SSL FLSE	6322	2VX DCA SIM	S	2		*					
SSL	6323	LOW GP AI SIM	S	2		*					
SL FLSE	6324	LOW AI	A	2		*			Mk-82/83/84/Mk-76/BDU-48, CATM-9X, CATM-7/120, Chaff, Flare	4/6, 1, 1, 40, 20	
SSL	6325	MED/HIGH AI JDAM SIM	S	2	NS	*					
SL CHECK	6326	MED/HIGH LGM AI	A	2	NS	*		R	GBU-12/16/LGTR, CATM-9X, CATM-7/120, Chaff, Flare	2, 1, 1, 40, 20	
DESIGNATION: EVENTS: DIVISION: LEAD: (DL)											
DL FLSE	6401	VID/SEM STAN	A	2		*			CATM-9X, Chaff, Flare	1, 40, 20	
DL	6402	OCA (SWEEP)	A	4		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SDL	6403	DCA (POINT DEFENSE) SIM	S	4	NS	*					
DL FLSE	6404	DCA (POINT DEFENSE) DTD	A	4		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
SDL FLSE	6405	DCA (POINT DEFENSE) FT SIM	S	4		*					
DL	6406	POP/STRAFE	A	4	NS	*			BDU-45, 20mm, Chaff, Flare	4, 250, 40, 20	
DL	6407	LOW AI GP	A	4		*			Mk-82/83/84/Mk-76/BDU-48, CATM-9X, CATM-7/120, Chaff, Flare	2/6, 1, 1, 40, 20	
DL CHECK	6408	MED/HI AI PGM	A	4	NS	*		R	GBU-12/16/LGTR, GBU-31/32/38, CATM-9X, CATM-7/120, Chaff, Flare	2, 2, 1, 1, 40, 20	
DESIGNATION: EVENTS: MISSION COMMANDER: (MC)											
MC	6501	LFE DCA	A	6+	(NS)	*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
MC FLSE	6502	LFE DAY AI	A	6+		*			CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
MC CHECK	6503	LFE NIGHT AI	A	6+	NS	*		R	CATM-9X, CATM-7/120, Chaff, Flare	1, 1, 40, 20	
DESIGNATION: EVENTS: WEAPONS SCHOOL: GRADUATE INSTRUCTOR: (INST)											
INST	6601	WTI				*					

STAGE	EVENT #	DESCRIPTION	DEVICE	REQ #	CONDITION	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
INST	6602	MDTC				*					
INST	6603	TOPGUN				*					
SPECIFIC WEAPONS DELIVERY PROFICIENCY REQUIREMENTS (SSWD); AERIAL (ASWD)											
SSWD	6701	M61A1 (A/S)	A	1		180	M	R	20mm	250	
SSWD	6702	MK-76	A	1		90	M	R	MK-76	1	
SSWD	6703	BDU-45/MK-83 IN/84 IN	A	1		180			BDU-45/83 IN/84 IN	1	Live ordnance range.
SSWD	6704	MK-82/83/84	A	1		180	M	R	MK-82/83/84	1	Live ordnance range.
SSWD	6705	LGTR	A	1		90	R	R	LGTR	1	
SSWD	6706	GBU-12/16/10/24 INERT	A	1		180	R	R	GBU-12/16/10/24 INERT	1	
SSWD	6707	GBU-12/16/10/24	A	1		365	M	R	GBU-10/12/16/24/LGTR	1	Live of inert ordnance range, laser safe range.
SSWD	6708	CAPTIVE JDAM	A	1		180			Captive JDAM	1	
SSWD	6709	JDAM INERT	A	1		180		R	Inert JDAM	1	
SSWD	6710	JDAM	A	1		365	M	R	JDAM	1	Live ordnance range.
SSWD	6711	CATM AGM-65E	A	1		180			Captive AGM-65E	1	
SSWD	6712	AGM-65E	A	1		1095			AGM-65E	1	Live Surface-to-Air missile range that is laser safe.
SSWD	6713	ROCKETS	A	1		365			5" 2.75"	4,7	Live or inert range.
SSWD	6714	ILLUM	A	1		365			5" 2.75", LUU-2/19	4,7,4	Inert ordnance range.
SSWD	6715	CBU	A	1		365			Rockeye	1	Live CBU range.
SSWD	6716	FIRE BOMB	A	1		545			Mk-77	1	Live ordnance range.
SSWD	6717	CAPTIVE JSOW	A	1		545			Captive JSOW	1	
SSWD	6718	JSOW	A	1		1095			JSOW	1	Live ordnance range.
SSWD	6719	CATM HARM	A	1		180			Captive AGM-88 HARM	1	
SSWD	6720	HARM	A	1		1095			AGM-88 HARM	1	Live Air-to-Surface missile range with a range safety officer; emitter to the range.
SSWD	6721	CATM SLAM(ER)	A	1		545			Captive SLAM(ER)	1	
SSWD	6722	SLAM(ER)	A	1		1095			SLAM(ER)	1	Live Air-to-Surface missile range with a range safety officer.
SSWD	6723	TALD	A	1		1095			TALD	1	Inert or live ordnance range.
ASWD	6724	CIRCULAR GUN PATTERN	A	2+		730			20mm	500	One banner/dart tow aircraft; live fire aerial gunnery range
ASWD	6725	FWD QTR GUN PATTERN	A	2+		730			20mm	500	One banner/dart tow aircraft; live fire aerial gunnery range
ASWD	6726	AIM-9	A	2+		1095			AIM-9	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (EP-3, E-2C, etc.) One BQM, AQM, or

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STAGE	EVENT #	DESCRIPTION	DEVICE	#	COND	REFLY	MAINTAIN	REFRESH	ORDNANCE TYPE	ORDNANCE QUANTITY	EXTERNAL SYLLABUS SUPPORT
											TALD with IR augmentation package.
ASWD	6727	AIM-7	A	2+		1095			AIM-7	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (BP-3, E-2C, etc.) One BQM, AQM, or TALD with radar augmentation package.
ASWD	6728	AIM-120	A	2+		1095			AIM-120A/B/C	1	Missile test range and airspace control agency. Surface search and aerial search radar platform, (BP-3, E-2C, etc.) One BQM, AQM, or TALD with radar augmentation package.
ASWD	6729	BANNER TOW	A	2+		1095			Banner	1	
NATOPS AND INSTRUMENT EVALUATION ACADEMIC EVENTS (NTPS / INST)											
NTPS	6801	NATOPS OPEN BOOK EXAM				365		R			
NTPS	6802	NATOPS CLOSED BOOK EXAM				365		R			
NTPS	6803	NATOPS ORAL EXAM				365		R			
INST	6804	INSTRUMENT EXAM				365		R			
INST	6805	INSTRUMENT GND SCHOOL				365		R			CNO approved Instrument Ground School.

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216. SYLLABUS EVALUATION FORMS. Contact MAWTS-1 to receive FA-18 Pilot/WSO T&R syllabus evaluation forms.

217. SIMULATOR MISSION ESSENTIAL SUBSYSTEMS MATRIX (MESM)

1. Events designated by an "S" in the event header shall be flown/conducted in a training device equipped to meet the objectives listed in the event description; each event requires specific simulator capabilities. For each individual event, 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:

a. FMC. All simulator subsystems required to meet the training objectives for the event to be flown/conducted are installed and operating properly.

b. PMC. A simulator subsystem or capability considered highly desirable, but not essential, to meet the training objectives is not installed or is not operating properly. While the event can still be completed, the quality of training is degraded.

c. NMC. The device lacks the capability to complete the event due to a critical subsystem or capability being inoperative or not installed. A simulator will be considered NMC if its configuration is greater than 3 months out of date as compared with the current aircraft/system configuration.

2. Completion of an event in a PMC simulator shall be noted on the ATF with a description of the impact to training. Commanding Officers shall be notified of all scheduled events in NMC simulators. Each commanding officer should notify DC/Aviation APW-71/APC [Info appropriate MCI/MARCORBASE, CG TECOM ATB and PMA-205(MARFED)] by DMS message (via the applicable chain of command) when NMC simulators due to aircraft configuration changes occur for greater than six months or when in the commanding officer's judgment the NMC rate has had an adverse effect on the squadron's ability to train.

3. Simulator MESM Application. The matrix below illustrates how the absence of a particular simulator subsystem or capability affects simulator MC status for each training event in this Manual. All simulator events will be completed in a FMC or PMC simulator as determined by the MESM. Completion of an event in a PMC simulator shall be noted on the ATF with a description of the impact to training. Under no circumstances will an event be completed in a device determined to be NMC for that event without the approval of the commanding officer.

FA-18 Simulator Minimum Essential Subsystem Matrix (MESM)		
Failed Subsystem:	NMC For:	PMC For:
HUD	ALL MISSIONS	
SMS weapons	ALL OTHER	SFAM, SCQ
TACAN	SFAM	ALL OTHER
CIT		SAA, SAAD, SAI, SOAAW
RADAR	SAS, SAA, SCAS, SAAD, SAI, SFAC(A),	SFAM, SNS, SLAT, SSEAD, SCQ
TPOD, LASER, LTD	SAS, SCAS, SAI, SFAC(A),	SNS,
RADALT	SFAM, SAS, SLAT	ALL OTHER
MIDS		SAA, SAAD, SAI, SFAC(A), SOAAW
TARGET VISUALS	SAS, SNS, SLAT, SCAS, SFAC(A)	SFAM
FORM VISUALS	SNS, SLAT, SAA, SAAD, SAI, SFAC(A), SOAAW	ALL OTHER
BOAT VISUALS	SCQ, SAMT	SFAM
NVD VISUALS	SNS	SCAS, SAS
IFLOLS VISUALS	SCQ	SFAM
THREAT AA VIS	SNS, SAA, SAAD, SAI, SOAAW	
THREAT SAM VIS	SAS 2301, SLAT, SSEAD	SAMT, SCAS, SFAC(A)
THREAT AA EA	SAA 2508	SAAD, SAA, SAI, SOAAW
THREAT SA EA	SSEAD	
HARM, CLC, ELINT	SSEAD 3501/3502	
SLAM-ER	SAMT	SAI
JDAM, GPS	SAS 2304, SCAS	SAI, SFAC(A)
JSOW	SSEAD 3501	SSEAD
PAR	SFAM, SCQ	
ACLS, ILS, DL, BCN	SFAM, SCQ	
HQ, SINGARS, KY	SCAS, SFAC(A)	SFAM, SAR
SCS Current Software		ALL MISSIONS
UDF, CY UPDATE	SSEAD 3501/3502	
MOC	SAA, SLAT, SAAD, SAI, SFAC(A), SOAAW	SCAS, SAR
DE-BRIEF Playback		ALL MISSIONS
LINKED SIMS	SNS, SAA, SAAD, SAI, SAR, SFAC(A), SOAAW	SAS, SCAS, SLAT
TAMMAC LOADER	SAS 2304, SSEAD, SAMT	ALL OTHER
EW SUITE	SAS 2301, SAA, SLAT, SAAD, SSEAD, SAI, SAMT, SOAAW	ALL OTHER

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4. Simulator event briefs shall be identical, both procedurally and in content, to aircraft/system event briefs. The length of the brief should be based upon the mission to be flown/conducted and content to be covered, and should not be forced to fit into the standard simulator briefing period.

5. If the simulator is not available, simulator periods may be flown in the aircraft or conducted on the system.

6. Scheduling. The time between a simulator event and the corresponding aircraft/system event should be minimized to the maximum extent possible.