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Subj: FA-18 TRAINING AND READINESS PROGRAM MANUAL

Ref: (a) NAVMC 3500.14E

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

1. Purpose. Per reference (a), enclosure (1) revises training standards, regulations, and policies regarding the training of FA-18 aircrew.

2. Cancellation. NAVMC 3500.50D.

3. Scope. Highlights of major training and readiness (T&R) planning considerations included in this Manual are as follows:

a. Chapter 1. Revised to align readiness standards and terminology with forthcoming changes to readiness reporting directives.

b. Chapter 2

(1) Transitions the Navy master syllabus guide for replacement aircrew into this Manual. This transition includes deletion of the carrier qualification stage.

(2) Emphasizes and requires increased scrutiny concerning the threshold for determining accomplishment of performance standards.

(3) Increases the number of evolutions required for both initial aerial refueling qualification and maintaining currency thereafter. The proficiency period for maintaining currency is changed from annual to semi-annual.

(4) Other service and allied publications for aerial refueling have been added for reference and compliance.

(5) Adds the use of low cost trainer simulators to gain efficiencies in simulator training.

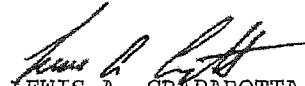
(6) Moves the large force exercise event from the 4000 Core Plus Phase to the 6000 Qualifications and Designation Phase.

4. Information. Commanding General (CG), Training and Education Command (TECOM) will update this T&R Manual as necessary to provide current and relevant training standards to commanders.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

All questions pertaining to this Manual should be directed to: CG, TECOM, Policy and Standards Division (C 466), 1019 Elliot Road, Quantico, Virginia 22134.

5. Command. This Manual is applicable to the Marine Corps Total Force.
6. Certification. Reviewed and approved this date.


LEWIS A. CRAPAROTTA
By direction

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FA-18 TRAINING AND READINESS UNIT REQUIREMENTS
VMFA

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CHAPTER 1

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

1.0 **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 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.

1.1 **VMFA MISSION.** Support the MAGTF commander by destroying surface targets and enemy aircraft, and escorting friendly aircraft, day or night, under all weather conditions during expeditionary, joint or combined operations.

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

FA-18A/C VMFA Squadron
12 Aircraft
19 Pilots

1.2.1 **VMFA Tactical and Reserve Squadron Critical MOSs**

FA-18A/C VMFA TACTICAL AND RESERVE SQUADRON CRITICAL MOSs			
MOS Description	PRIMARY MOS	Billet and/or MOS Description	SECONDARY MOS
Pilot	7523	Maintenance Control (Safe-for-flight)	6012
Aircraft Maintenance Chief	6019	Collateral Duty Inspector (CDI)	6016
Fixed-Wing Safety Equipment Mech	6287	Collateral Duty QAR (CDQAR)	6017
Aircraft Electrical Tech	6337	Quality Assurance Representative (QAR)	6018
Fixed-Wing Airframe Mechanic	6257	WTI	7577
Comm/NAV/Radar Technician	6317	QASO	6591
Ordnance Technician	6531	Night Syses Instructor (NSI)	7547
Fixed-Wing Aircraft Mechanic	6217		
Flight Equipment Technician	6048		
*Critical MOS - Those specialties that directly affect the unit's ability to undertake its mission. Definition per MCO 3000.13A. MOS list provided by APP-33 (Readiness).			
MOS shortages shall be reported by squadron (12 Aircraft) only via DRRS-S (See MET Worksheets Appendix A).			
Note: Critical MOSs for Section Leader, Division Leader, and Mission Commander are reported in DRRS-S via the CMMR paragraph under Combat Leadership (Para 1.7.1).			

1.3 **MISSION ESSENTIAL TASK LIST (METL).** The METL is comprised of specified capabilities-based Mission Essential Tasks (METs) which a unit is designed to execute. METs are drawn from the Marine Corps Task List (MCTL), are standardized by type unit, and defined as Core or Core Plus METs. Core METs are those tasks that a unit is expected to execute at all times, and are the only METs used in reporting the Training Level (T-Level) for the Core Mission (C-Level) in the Defense Readiness Reporting System – Strategic (DRRS-S). Core Plus METs identify additional capabilities to support missions or plans which are limited in scope and/or theater specific. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL normally consists of selected METs (drawn from Core and Core Plus METs) necessary to conduct the assigned mission. MCO 3000.13 provides additional information on readiness reporting.

VMFA FA-18A/C		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	DESCRIPTION
MCT 3.2.3.1.1	CAS	Conduct Close Air Support
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance
MCT 6.1.1.8	AAD	Conduct Active Air Defense
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses
MCT 3.2.3.2	OAAW	Conduct Anti-air Warfare [Offensive Anti-air Warfare (OAAW)]
MCT 3.2.3.1.2.1	STK	Conduct Strike
CORE PLUS		
MET	ABBREVIATION	DESCRIPTION
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance
MCT 6.1.1.11	AESC	Conduct Aerial Escort
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)

1.4 **MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION**

VMFA FA-18A/C							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
MCT 3.2.3.1.1	CAS	X	X				X
MCT 3.2.3.1.2.3	SCAR	X	X			X	X
MCT 6.1.1.8	AAD			X			
MCT 3.2.3.2.1	SEAD	X					
MCT 3.2.3.2	OAAW			X			
MCT 3.2.3.1.2.1	STK	X		X			
CORE PLUS							
MCT 1.3.3.3.2	EXP	X	X	X		X	X
MCT 1.3.3.3.1	CQ		X				
MCT 2.2.5.2.2	MIR						X
MCT 6.1.1.11	AESC		X				
MCT 3.2.7.5	AMT	X					
MCT 3.2.5.4	FAC(A)			X		X	

1.5 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX. Depicts the relationship between a MET and each Core/Mission/Core Plus/Mission Plus skill associated with the MET for readiness reporting and resource allocation purposes. There shall be a one-to-one relationship between the MET and a corresponding Mission Skill. Shading indicates Core Plus.

VMFA FA-18A/C																									
MISSION ESSENTIAL TASK (MET) to CORE/MISSION/CORE PLUS SKILL MATRIX																									
MET	SKILLS 2000 PHASE						MISSION SKILLS 3000 PHASE						CORE PLUS 4000 PHASE												
	FAM	AAR	AS	NS	AA	LAT	CAS	SCAR	OAAW	SEAD	STK	AAD	SKILLS				MISSION PLUS								
													LFE	FI	NSLAT	EQ	EXP	FCLP/CQ	MIR	AESC	AMT	FAC(A)			
MCT 3.2.3.1.1 CAS	X	X		X		X	X						X		X										
MCT 3.2.3.1.2.3 SCAR	X	X	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			X		X										
MCT 3.2.3.1.2.1 STK	X	X	X	X	X	X					X		X		X										
MCT 6.1.1.8 AAD	X	X		X	X						X		X	X	X										
CORE PLUS																									
MCT 1.3.3.3.2 EXP	X			X									X			X	X								
MCT 1.3.3.3.1 CQ	X			X													X								
MCT 2.2.5.2.2 MIR	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 3.2.5.4 FAC(A)	X	X											X												X

1.6 MISSION ESSENTIAL TASK (MET) OUTPUT STANDARDS. The following MET output standards are the required level of performance a VMFA (FA-18A++/C) must be capable of sustaining during contingency operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training Events. A core capable VMFA (FA-18A++/C) 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. It assumes >70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET and >90% T/O aircrew on hand. If unit MC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage.

VMFA FA-18A/C			
MET OUTPUT STANDARDS MATRIX			
CORE MAXIMUM DAILY SORTIES			
MET	ABBREVIATION	MAXIMUM SORTIES PER MET	MAXIMUM DAILY SORTIES
MCT 3.2.3.1.1	CAS	20	20
MCT 3.2.3.1.2.3	SCAR	20	
MCT 3.2.3.2	OAAW	12	
MCT 3.2.3.2.1	SEAD	12	
MCT 3.2.3.1.2.1	STK	20	
MCT 6.1.1.8	AAD	20	
CORE PLUS			
MCT 1.3.3.3.2	EXP	20	
MCT 1.3.3.3.1	CQ	20	
MCT 2.2.5.2.2	MIR	20	
MCT 6.1.1.11	AESC	16	
MCT 3.2.7.5	AMT	20	
MCT 3.2.5.4	FAC(A)	4	

1.7 CORE MODEL MINIMUM REQUIREMENTS (CMMR) / ADVANCED AND BASELINE TRAINING STANDARDS FOR READINESS REPORTING (DRRS-MC). The paragraphs and tables below delineate the minimum pilot qualifications, designations, and/or training for the Advanced and Baseline Training Standards.

1.7.1 CMMR / Advanced Training Standard: The minimum pilot qualifications, designations, and/or training required to execute the MET output standards of paragraph 1.6. Units can be expected to perform a critical role in a mission or OPLAN and normally requires external MAGTF support.

1.7.2 Baseline Training Standard: The level of readiness expected from a unit sustained through Core training at home station. Normally equates to approximately 70% of CMMR.

1.7.3 In the matrix below the first number in the “Crews Trained” columns reflect the CMMR or Advanced Training Standard. The numbers in parentheses indicate the Baseline Training Standard.

Note: Combat Leadership is depicted as only one value (CMMR).

VMFA FA-18A/C			
CMMR READINESS REPORTING MATRIX			
CORE			
MET	ABBREVIATION	PILOT	CREWS TRAINED BY MET
MCT 3.2.3.1.1	CAS	MSP	12(8)
MCT 3.2.3.1.2.3	SCAR	MSP	10(7)
MCT 3.2.3.2	OAAW	MSP	6(4)
MCT 3.2.3.2.1	SEAD	MSP	6(4)
MCT 3.2.3.1.2.1	STK	MSP	10(7)
MCT 6.1.1.8	AAD	MSP	10(7)
CORE PLUS			
MET	ABBREVIATION	PILOT	CREWS TRAINED BY MET ¹
MCT 1.3.3.3.2	EXP	MSP	12(8)
MCT 1.3.3.3.1	CQ	MSP	16(11)
MCT 2.2.5.2.2	MIR	MSP	12(8)
MCT 6.1.1.11	AESC	MSP	8(5)
MCT 3.2.7.5	AMT	MSP	12(8)
MCT 3.2.5.4	FAC(A)	MSP	2(1)
COMBAT/FLIGHT LEADERSHIP CMMR			
DESIGNATION		PILOTS	
SECTION LEADER (SL)		10	
DIVISION LEADER (DL)		6	
MISSION COMMANDER (MC)		4	

1.8 CORE MODEL TRAINING STANDARD (CMTS). The CMTS is the optimum training standard reflecting the number of pilots trained to CSP/MSP, per crew position to execute each Stage of flight as detailed below. The CMTS Matrix depicts the training goal and optimum depth of training desired for each squadron as they develop their squadron training plan. It is not utilized for readiness reporting (DRRS-S) purposes. At a minimum, the CMTS shall enable a squadron to form Core Model Minimum Requirement (CMMR) crews for Mission Skills (and Mission Plus Skills when required).

VMFA FA-18A/C	
CMTS MATRIX	
CORE	
SKILLS (2000 Phase)	PILOTS
FAM	12
AAR	12
AS	12
NS	12
AA	12
LAT	8
MISSION SKILLS (3000 Phase)	PILOTS
CAS	12
SCAR	10
OAAW	10
SEAD	6
STK	10
AAD	10
CORE PLUS (4000 Phase)	
SKILLS	PILOTS ¹
FI	4
LFE	8
NSLAT	4
EQ	12
MISSION SKILLS	PILOTS ¹
EXP	12
FCLP / CQ	[0/(15)]
MIR	[4/(12)]
AESC	[4/(8)]
AMT	[4/(12)]
FAC(A)	[1/(2)]

Note¹: In the Core Plus METS the first number represents the number of individuals the squadron is expected to train at all times in order to retain a cadre of capability within the squadron. The second number represents the number of MET capable individuals the squadron should train if that MET becomes required within an Assigned Mission/Directed Mission Set.

1.9 INSTRUCTOR DESIGNATIONS

VMFA FA-18A/C	
INSTRUCTOR DESIGNATION CMTS MATRIX (5000 Phase)	
INSTRUCTOR DESIGNATIONS	PILOTS
LATI	2
NSI	2
NSLATI	2*
FAC(A)I	1
FLSE	2
WTI	2
MDTI / SFTI	2
LSO	3
FAI	2**

* NSLATIs count towards the NSI and LATI requirements

** CO, XO, WTIs, SFTIs, or MDTIs who are also designated FAIs will not count towards the FAI requirement. VMFAs may have a maximum of four (4) FAIs.

1.10 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)

VMFA FA-18A/C	
RCQD MATRIX (6000 PHASE)	
QUALIFICATION	PILOTS
FCP	3

VMFA(AW)

1.11 VMFA(AW) MISSION. Support the MAGTF commander by providing supporting arms coordination, destroying surface targets and enemy aircraft, and escorting friendly aircraft, day or night, under all weather conditions during expeditionary, joint, or combined operations.

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

FA-18D VMFA(AW) Squadron

12 Aircraft

19 Pilots

19 WSOs

Note: 1 Pilot and 1 WSO equal 1 Crew

1.12.1 VMFA(AW) Tactical and Reserve Squadron Critical MOSs

FA-18D VMFA(AW) TACTICAL AND RESERVE SQUADRON CRITICAL MOSs			
MOS Description	PRIMARY MOS	Billet and/or MOS Description	SECONDARY MOS
Pilot	7523	Maintenance Control (Safe-for-flight)	6012
Weapons Systems Officer (WSO)	7525	Collateral Duty Inspector (CDI)	6016
Aircraft Maintenance Chief	6019	Collateral Duty QAR (CDQAR)	6017
Fixed-Wing Safety Equipment Mech	6287	Quality Assurance Representative (QAR)	6018
Aircraft Electrical Tech	6337	WTI	7577
Fixed-Wing Airframe Mechanic	6257	QASO	6591
Comm/NAV/Radar Technician	6317	Forward Air Controller (Airborne) Instructor [FAC(A)I	7544
Ordnance Technician	6531	Night Syses Instructor (NSI)	7547
Fixed-Wing Aircraft Mechanic	6217		
Flight Equipment Technician	6048		
*Critical MOS - Those specialties that directly affect the unit's ability to undertake its mission. Definition per MCO 3000.13A. MOS list provided by APP-33 (Readiness).			
MOS shortages shall be reported by squadron (12 Aircraft) only via DRRS-S (See MET Worksheets Appendix A).			
Note: Critical MOSs for Section Leader, Division Leader, and Mission Commander are reported in DRRS-S via the CMMR paragraph under Combat Leadership (Para 1.17.1).			

1.13 **MISSION ESSENTIAL TASK LIST (METL).** The METL is comprised of specified capabilities-based Mission Essential Tasks (METs) which a unit is designed to execute. METs are drawn from the Marine Corps Task List (MCTL), are standardized by type unit, and defined as Core or Core Plus METs. Core METs are those tasks that a unit is expected to execute at all times, and are the only METs used in reporting the Training Level (T-Level) for the Core Mission (C-Level) in the Defense Readiness Reporting System – Strategic (DRRS-S). Core Plus METs identify additional capabilities to support missions or plans which are limited in scope and/or theater specific. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL normally consists of selected METs (drawn from Core and Core Plus METs) necessary to conduct the assigned mission. MCO 3000.13 provides additional information on readiness reporting.

VMFA(AW) FA-18D		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	DESCRIPTION
MCT 3.2.3.1.1	CAS	Conduct Close Air Support
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses
MCT 3.2.3.1.2.1	STK	Conduct Strike
MCT 6.1.1.8	AAD	Conduct Active Air Defense
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)
MCT 3.2.3.2	OAAW	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]
MCT 5.3.2.7.3	TAC(A)	Conduct Tactical Coordination (Airborne) Operations
CORE PLUS		
MET	ABBREVIATION	DESCRIPTION
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance
MCT 6.1.1.11	AESC	Conduct Aerial Escort
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)

1.14 **MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION**

VMFA(AW) FA-18D							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
MCT 3.2.3.1.1	CAS	X	X				X
MCT 3.2.3.1.2.3	SCAR	X	X			X	X
MCT 3.2.3.2.1	SEAD	X					
MCT 3.2.3.1.2.1	STK	X		X			
MCT 6.1.1.8	AAD			X			
MCT 3.2.5.4	FAC(A)	X				X	
MCT 3.2.3.2	OAAW			X			
MCT 5.3.2.7.3	TAC(A)		X			X	
CORE PLUS							
MCT 1.3.3.3.2	EXP	X	X	X		X	X
MCT 1.3.3.3.1	CQ		X				
MCT 2.2.5.2.2	MIR						X
MCT 6.1.1.11	AESC		X				
MCT 3.2.7.5	AMT	X					
MCT 3.2.5.4	FAC(A)	X				X	

1.15 **MET TO CORE/MISSION/CORE PLUS SKILL MATRIX.** Depicts the relationship between a MET and each Core/Mission/Core Plus/Mission Plus skill associated with the MET for readiness reporting and resource allocation purposes.

VMFA(AW) FA-18D																				
MISSION ESSENTIAL TASK (MET) to CORE/MISSION/CORE PLUS SKILL MATRIX																				
MET	SKILLS 2000 PHASE						MISSION SKILLS 3000 PHASE							CORE PLUS 4000 PHASE						
	FAM	AAR	AS	NS	AA	LAT	CAS	SCAR	SEAD	AI	AAD	FAC(A)	OAAW	TAC(A)	SKILLS			MISSION SKILLS		
															LFE	NSLAT	FI	EQ	EXP	FCLP / CQ
MCT 3.2.3.1.1 CAS	X	X		X		X	X								X	X				
MCT 3.2.3.1.2.3 SCAR	X	X	X	X			X								X	X				
MCT 3.2.3.2.1 SEAD	X	X		X				X							X	X				
MCT 3.2.3.1.2.1 AI	X	X	X	X	X	X			X						X	X				
MCT 6.1.1.8 AAD	X	X		X	X						X				X		X			
MCT 3.2.5.4 FAC(A)	X	X	X	X							X				X	X				
MCT 3.2.3.2 OAAW	X	X		X	X							X								
MCT 5.3.2.7.3 TAC(A)	X	X												X	X					
CORE PLUS																				
MCT 1.3.3.3.2 EXP	X			X											X			X	X	
MCT 1.3.3.3.1 CQ	X			X														X		
MCT 2.2.5.2.2 MIR	X	X																	X	
MCT 6.1.1.11 AESC	X	X					X				X				X	X				X
MCT 3.2.7.5 AMT	X	X					X	X		X						X				X
MCT 3.2.5.4 FAC(A)	X	X	X	X							X				X	X				X

1.16 **MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS.** The following MET output standards are the required level of performance a VMFA(AW) (FA-18D) must be capable of sustaining during contingency 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) (FA-18D) 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. It assumes >70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET and >90% T/O aircrew on hand. If unit MC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage.

VMFA(AW) FA-18D				
MET OUTPUT STANDARDS MATRIX				
CORE				
MET	ABBREVIATION	MAXIMUM SORTIES PER MET	MAXIMUM DAILY SORTIES	
MCT 3.2.3.1.1	CAS	20	20	
MCT 3.2.3.1.2.3	SCAR	20		
MCT 3.2.3.2.1	SEAD	12		
MCT 3.2.3.1.2.1	STK	20		
MCT 6.1.1.8	AAD	20		
MCT 3.2.5.4	FAC(A)	8		
MCT 3.2.3.2	OAAW	12		
MCT 5.3.2.7.3	TAC(A)	4		
CORE PLUS				
MCT 1.3.3.3.2	EXP	20		
MCT 1.3.3.3.1	FCLP / CQ	20		
MCT 2.2.5.2.2	MIR	20		
MCT 6.1.1.11	AESC	16		
MCT 3.2.7.5	AMT	20		
MCT 3.2.5.4	FAC(A)	8		

1.17 **CORE MODEL MINIMUM REQUIREMENTS (CMMR) / ADVANCED AND BASELINE TRAINING STANDARDS FOR READINESS REPORTING (DRRS-MC).** The paragraphs and tables below delineate the minimum crew qualifications, designations, and/or training for the Advanced and Baseline Training Standards.

1.17.1 **CMMR / Advanced Training Standard:** The minimum pilot qualifications, designations, and/or training required to execute the MET output standards of paragraph 1.6. Units can be expected to perform a critical role in a mission or OPLAN and normally requires external MAGTF support.

1.17.2 **Baseline Training Standard:** The level of readiness expected from a unit sustained through Core training at home station. Normally equates to approximately 70% of CMMR.

1.17.3 In the matrix below the first number in the “Crews Trained” columns reflect the CMMR or Advanced Training Standard. The numbers in parentheses indicate the Baseline Training Standard.

Note: Combat Leadership is depicted as only one value (CMMR).

VMFA(AW) FA-18D				
CMMR READINESS REPORTING MATRIX				
CORE				
MET	ABBREVIATION	PILOTS	WSO	CREWS TRAINED BY MET
MCT 3.2.3.1.1	CAS	MSP	MSP	12(8)
MCT 3.2.3.1.2.3	SCAR	MSP	MSP	10(7)
MCT 3.2.3.2.1	SEAD	MSP	MSP	6(4)
MCT 3.2.3.1.2.1	STK	MSP	MSP	10(7)
MCT 6.1.1.8	AAD	MSP	MSP	10(7)
MCT 3.2.5.4	FAC(A)	MSP	MSP	4(3)
MCT 3.2.3.2	OAAW	MSP	MSP	6(4)
MCT 5.3.2.7.3	TAC(A)	MSP	MSP	2(2)
CORE PLUS				
MET	ABBREVIATION	PILOTS	WSO	CREWS TRAINED BY MET
MCT 1.3.3.3.2	EXP	MSP	MSP	12(8)
MCT 1.3.3.3.1	FCLP / CQ	MSP	MSP	0(0)
MCT 2.2.5.2.2	MIR	MSP	MSP	8(5)
MCT 6.1.1.11	AESC	MSP	MSP	8(5)
MCT 3.2.7.5	AMT	MSP	MSP	8(5)
MCT 3.2.5.4	FAC(A)	MSP	MSP	4(3)
COMBAT/FLIGHT LEADERSHIP CCMR				
DESIGNATION		PILOTS	WSO	
SECTION LEADER (SL)		10	10	
DIVISION LEADER (DL)		6	6	
MISSION COMMANDER (MC)			4	

1.18 **CORE MODEL TRAINING STANDARD (CMTS).** The CMTS is the optimum training standard reflecting the number of aircrew trained to CSP/MSP, per crew position to execute each Stage of flight as detailed below. The CMTS Matrix depicts the training goal and optimum depth of training desired for each squadron as they develop their squadron training plan. It is not utilized for readiness reporting (DRRS-S) purposes. At a minimum, the CMTS shall enable a squadron to form Core Model Minimum Requirement (CMMR) crews for Mission Skills (and Mission Plus Skills when required).

VMFA(AW) FA-18D		
CMTS MATRIX		
CORE		
SKILLS(2000 Phase)	PILOTS	WSO
FAM	12	12
AAR	12	N/A
AS	12	12
NS	12	12
AA	12	12
LAT	8	8
MISSION SKILLS(3000 Phase)	PILOTS	WSO
CAS	12	12
SCAR	10	10
SEAD	6	6
STK	10	10
AAD	10	10
FAC(A)	6	6
OAAW	8	8
TAC(A)	4*	
CORE PLUS (4000 Phase)		
SKILLS	PILOTS ¹	WSO ¹
FI	[4/(8)]	[4/(8)]
LFE	[6/(8)]	[6/(8)]
NSLAT	[2/(6)]	[2/(6)]
EQ	[12/(12)]	[12/(12)]
MISSION SKILLS	PILOTS ¹	WSO ¹
EXP	[0/12]	[0/12]
FCLP/CQ	[0/(0)]	[0/(0)]
MIR	[4/(8)]	[4/(8)]
AESC	[4/(8)]	[4/(8)]
AMT	[4/(8)]	[4/(8)]
FAC(A)	[2/(6)]	[2/(6)]

* TAC(A) training requirement may be filled by a pilot or WSO. Requirement equals 4 MSP TAC(A) in total.

Note¹: In the Core Plus METS the first number represents the number of individuals the squadron is expected to train at all times in order to retain a cadre of capability within the squadron. The second number represents the number of MET capable individuals the squadron should train if that MET becomes required within an Assigned Mission/Directed Mission Set.

1.19 INSTRUCTOR DESIGNATIONS

VMFA(AW) FA-18D		
INSTRUCTOR DESIGNATION MATRIX (5000 Phase)		
INSTRUCTOR DESIGNATIONS	PILOTS	WSO
LATI	2	N/A
NSLATI	2*	N/A
FLSE	2	1
WTI	2	2
MDTI / SFTI	2	2
LSO	2	N/A
NSI		3
FAC(A)I		3
TAC(A)I		2
FAI	2**	2**

* NSLATIs count towards the NSI and LATI requirements

** CO, XO, WTIs, SFTIs, or MDTIs who are also designated FAIs will not count towards the FAI requirement. VMFA(AW)s may have a maximum of six (6) FAIs.

1.20 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)

VMFA(AW) FA-18D		
RCQD MATRIX (6000 PHASE)		
QUALIFICATION	PILOTS	WSO
FCP	3	N/A

VMFA Composite

1.21 VMFA Composite MISSION. Support the MAGTF commander by providing supporting arms coordination, destroying surface targets and enemy aircraft, and escorting friendly aircraft, day or night, under all weather conditions during expeditionary, joint, or combined operations.

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

FA-18C/D VMFA Composite Squadron

12 Aircraft

7 x FA-18C

5 x FA-18D

19 Pilots

7 WSOs

1 Crew = 1 Pilot and/or 1 WSO

1.22.1 VMFA Composite Tactical and Reserve Squadron Critical MOSs

FA-18C/D VMFA Composite TACTICAL AND RESERVE SQUADRON CRITICAL MOSs			
MOS Description	PRIMARY MOS	Billet and/or MOS Description	SECONDARY MOS
Pilot	7523	Maintenance Control (Safe-for-flight)	6012
Weapons Systems Officer (WSO)	7525	Collateral Duty Inspector (CDI)	6016
Aircraft Maintenance Chief	6019	Collateral Duty QAR (CDQAR)	6017
Fixed-Wing Safety Equipment Mech	6287	Quality Assurance Representative (QAR)	6018
Aircraft Electrical Tech	6337	WTI	7577
Fixed-Wing Airframe Mechanic	6257	QASO	6591
Comm/NAV/Radar Technician	6317	Forward Air Controller (Airborne) Instructor [FAC(A)I	7544
Ordnance Technician	6531	Night Syses Instructor (NSI)	7547
Fixed-Wing Aircraft Mechanic	6217		
Flight Equipment Technician	6048		
*Critical MOS - Those specialties that directly affect the unit's ability to undertake its mission. Definition per MCO 3000.13. MOS list provided by APP-33 (Readiness).			
MOS shortages shall be reported by squadron (12 Aircraft) only via DRRS-S (See MET Worksheets Appendix A).			
Note: Critical MOSs for Section Leader, Division Leader, and Mission Commander are reported in DRRS-S via the CMMR paragraph under Combat Leadership (Para 1.27.1).			

1.23 **MISSION ESSENTIAL TASK LIST (METL).** The METL is comprised of specified capabilities-based Mission Essential Tasks (METs) which a unit is designed to execute. METs are drawn from the Marine Corps Task List (MCTL), are standardized by type unit, and defined as Core or Core Plus METs. Core METs are those tasks that a unit is expected to execute at all times, and are the only METs used in reporting the Training Level (T-Level) for the Core Mission (C-Level) in the Defense Readiness Reporting System – Strategic (DRRS-S). Core Plus METs identify additional capabilities to support missions or plans which are limited in scope and/or theater specific. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL normally consists of selected METs (drawn from Core and Core Plus METs) necessary to conduct the assigned mission. MCO 3000.13 provides additional information on readiness reporting.

VMFA COMPOSITE FA-18C/D		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	DESCRIPTION
MCT 3.2.3.1.1	CAS	Conduct Close Air Support
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses
MCT 3.2.3.1.2.1	STK	Conduct Strike
MCT 6.1.1.8	AAD	Conduct Active Air Defense
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)
MCT 3.2.3.2	OAAW	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]
MCT 5.3.2.7.3	TAC(A)	Conduct Tactical Coordination (Airborne) Operations
CORE PLUS		
MET	ABBREVIATION	DESCRIPTION
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance
MCT 6.1.1.11	AESC	Conduct Aerial Escort
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)

1.24 **MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION**

VMFA COMPOSITE FA-18C/D							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
MCT 3.2.3.1.1	CAS	X	X				X
MCT 3.2.3.1.2.3	SCAR	X	X			X	X
MCT 3.2.3.2.1	SEAD	X					
MCT 3.2.3.1.2.1	STK	X		X			
MCT 6.1.1.8	AAD			X			
MCT 3.2.5.4	FAC(A)	X				X	
MCT 3.2.3.2	OAAW			X			
MCT 5.3.2.7.3	TAC(A)		X			X	
CORE PLUS							
MCT 1.3.3.3.2	EXP	X	X	X		X	X
MCT 1.3.3.3.1	CQ		X				
MCT 2.2.5.2.2	MIR						X
MCT 6.1.1.11	AESC		X				
MCT 3.2.7.5	AMT	X					
MCT 3.2.5.4	FAC(A)	X				X	

1.25 **MET TO CORE/MISSION/CORE PLUS SKILL MATRIX.** Depicts the relationship between a MET and each Core/Mission/Core Plus/Mission Plus skill associated with the MET for readiness reporting and resource allocation purposes.

VMFA COMPOSITE FA-18C/D																					
MISSION ESSENTIAL TASK (MET) to CORE/MISSION/CORE PLUS SKILL MATRIX																					
MET	SKILLS 2000 PHASE						MISSION SKILLS 3000 PHASE						CORE PLUS 4000 PHASE								
	FAM	AAR	AS	NS	AA	LAT	CAS	SCAR	SEAD	AI	AAD	FAC(A)	OAAW	TAC(A)	SKILLS			MISSION SKILLS			
															LFE	NSLAT	FI	EQ	EXP	FCLP / CQ	MIR
MCT 3.2.3.1.1 CAS	X	X		X		X	X								X	X					
MCT 3.2.3.1.2.3 SCAR	X	X	X	X			X								X	X					
MCT 3.2.3.2.1 SEAD	X	X		X				X							X	X					
MCT 3.2.3.1.2.1 AI	X	X	X	X	X	X			X						X	X					
MCT 6.1.1.8 AAD	X	X		X	X						X				X		X				
MCT 3.2.5.4 FAC(A)	X	X	X	X							X				X	X					
MCT 3.2.3.2 OAAW	X	X		X	X							X									
MCT 5.3.2.7.3 TAC(A)	X	X												X	X						
CORE PLUS																					
MCT 1.3.3.3.2 EXP	X			X											X			X	X		
MCT 1.3.3.3.1 CQ	X			X														X			
MCT 2.2.5.2.2 MIR	X	X																X			
MCT 6.1.1.11 AESC	X	X					X				X				X	X			X		
MCT 3.2.7.5 AMT	X	X					X	X		X						X				X	
MCT 3.2.5.4 FAC(A)	X	X	X	X							X				X	X				X	

1.26 **MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS.** The following MET output standards are the required level of performance a VMFA Composite (FA-18C/D) must be capable of sustaining during contingency operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training Events. A core capable VMFA Composite (FA-18C/D) 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. It assumes >70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET and >90% T/O aircrew on hand. If unit MC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage.

VMFA COMPOSITE FA-18C/D				
MET OUTPUT STANDARDS MATRIX				
CORE				
MET	ABBREVIATION	MAXIMUM SORTIES PER MET	MAXIMUM DAILY SORTIES	
MCT 3.2.3.1.1	CAS	20	20	
MCT 3.2.3.1.2.3	SCAR	20		
MCT 3.2.3.2.1	SEAD	12		
MCT 3.2.3.1.2.1	STK	20		
MCT 6.1.1.8	AAD	20		
MCT 3.2.5.4	FAC(A)	6		
MCT 3.2.3.2	OAAW	12		
MCT 5.3.2.7.3	TAC(A)	4		
CORE PLUS				
MCT 1.3.3.3.2	EXP	20		
MCT 1.3.3.3.1	FCLP / CQ	20		
MCT 2.2.5.2.2	MIR	20		
MCT 6.1.1.11	AESC	16		
MCT 3.2.7.5	AMT	20		
MCT 3.2.5.4	FAC(A)	6		

1.27 **CORE MODEL MINIMUM REQUIREMENTS (CMMR) / ADVANCED AND BASELINE TRAINING STANDARDS FOR READINESS REPORTING (DRRS-MC).** The paragraphs and tables below delineate the minimum crew qualifications, designations, and/or training for the Advanced and Baseline Training Standards.

1.27.1 **CMMR / Advanced Training Standard:** The minimum pilot qualifications, designations, and/or training required to execute the MET output standards of paragraph 1.6. Units can be expected to perform a critical role in a mission or OPLAN and normally requires external MAGTF support.

1.27.2 **Baseline Training Standard:** The level of readiness expected from a unit sustained through Core training at home station. Normally equates to approximately 70% of CMMR.

1.27.3 In the matrix below the first number in the “Crews Trained” columns reflect the CMMR or Advanced Training Standard. The numbers in parentheses indicate the Baseline Training Standard.

Note: Combat Leadership is depicted as only one value (CMMR).

VMFA COMPOSITE FA-18C/D					
CMMR READINESS REPORTING MATRIX					
CORE					
MET	ABBREVIATION	PILOTS	WSO	CREWS TRAINED BY MET	
MCT 3.2.3.1.1	CAS	MSP	MSP	12(8)	5(3)
MCT 3.2.3.1.2.3	SCAR	MSP	MSP	10(7)	4(2)
MCT 3.2.3.2.1	SEAD	MSP	MSP	6(4)	4(2)
MCT 3.2.3.1.2.1	STK	MSP	MSP	10(7)	4(2)
MCT 6.1.1.8	AAD	MSP	MSP	10(7)	4(2)
MCT 3.2.5.4	FAC(A)	MSP	MSP	3(2)	3(2)
MCT 3.2.3.2	OAAW	MSP	MSP	6(4)	3(2)
MCT 5.3.2.7.3	TAC(A)	MSP	MSP	2(2)	
CORE PLUS					
MET	ABBREVIATION	PILOTS	WSO	CREWS TRAINED BY MET	
MCT 1.3.3.3.2	EXP	MSP	MSP	12(8)	4(2)
MCT 1.3.3.3.1	FCLP / CQ	MSP	MSP	0(0)	0(0)
MCT 2.2.5.2.2	MIR	MSP	MSP	10(7)	3(2)
MCT 6.1.1.11	AESC	MSP	MSP	8(5)	2(1)
MCT 3.2.7.5	AMT	MSP	MSP	10(7)	3(2)
MCT 3.2.5.4	FAC(A)	MSP	MSP	3(2)	3(2)
COMBAT/FLIGHT LEADERSHIP CCMR					
DESIGNATION		PILOTS	WSO		
SECTION LEADER (SL)		10	4		
DIVISION LEADER (DL)		6	3		
MISSION COMMANDER (MC)		4			

1.28 **CORE MODEL TRAINING STANDARD (CMTS).** The CMTS is the optimum training standard reflecting the number of aircrew trained to CSP/MSP, per crew position to execute each Stage of flight as detailed below. The CMTS Matrix depicts the training goal and optimum depth of training desired for each squadron as they develop their squadron training plan. It is not utilized for readiness reporting (DRRS-S) purposes. At a minimum, the CMTS shall enable a squadron to form Core Model Minimum Requirement (CMMR) crews for Mission Skills (and Mission Plus Skills when required).

VMFA COMPOSITE FA-18C/D		
CMTS MATRIX		
CORE		
SKILLS (2000 Phase)	PILOTS	WSO
FAM	14	4
AAR	12	N/A
AS	12	4
NS	12	4
AA	12	4
LAT	8	2
MISSION SKILLS (3000 Phase)	PILOTS	WSO
CAS	12	5
SCAR	10	4
SEAD	6	4
STK	10	4
AAD	10	4
FAC(A)	3	4
OAAW	10	4
TAC(A)		4*
CORE PLUS (4000 Phase)		
SKILLS	PILOTS¹	WSO¹
FI	[4/(8)]	[2/(4)]
LFE	[6/(8)]	[3/(4)]
NSLAT	[2/(6)]	[1/(3)]
EQ	[12/(12)]	[5/(5)]
MISSION SKILLS	PILOTS¹	WSO¹
EXP	[0/12]	[0/5]
FCLP/CQ	[0/(15)]	[0/(0)]
MIR	[4/(12)]	[2/(4)]
AESC	[4/(8)]	[2/(4)]
AMT	[4/(12)]	[2/(4)]
FAC(A)	[1/(3)]	[2/(4)]

* TAC(A) training requirement may be filled by a pilot or WSO. Requirement equals 4 MSP TAC(A) in total.

Note¹: In the Core Plus METS the first number represents the number of individuals the squadron is expected to train at all times in order to retain a cadre of capability within the squadron. The second number represents the number of MET capable individuals the squadron should train if that MET becomes required within an Assigned Mission/Directed Mission Set.

1.29 INSTRUCTOR DESIGNATIONS

VMFA Composite FA-18C/D		
INSTRUCTOR DESIGNATION MATRIX (5000 Phase)		
INSTRUCTOR DESIGNATIONS	PILOTS	WSO
LATI	2*	N/A
NSLATI	2*	N/A
FLSE		3
WTI	2	1
MDTI / SFTI	2	1
LSO	2	N/A
NSI		2*
FAC(A)I	2	
TAC(A)I	1	
FAI	2**	1**

* NSLATIs count towards the NSI and LATI requirements

** CO, XO, WTIs, SFTIs, or MDTIs who are also designated FAIs will not count towards the FAI requirement. VMFA(AW)Cs may have a maximum of six (6) FAIs.

1.30 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)

VMFA COMPOSITE FA-18C/D		
RCQD MATRIX (6000 PHASE)		
QUALIFICATION	PILOTS	WSO
FCP	3	N/A

1.31 VMFAT MISSION. Train Naval Aviators and Naval Flight Officers in FA-18 1000 phase core skill introduction basic, refresher, conversion, and transition periods of instruction in order to meet Fleet Marine Force and Naval Air Forces operational manning requirements.

1.32 VMFAT TABLE OF ORGANIZATION (T/O). Refer to Table of Organization managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength for FA-18A/C/D FRS squadron. As of this publication date, VMFAT Squadron is authorized:

FA-18A/C/D VMFAT Squadron

35 Aircraft
44 Pilots
5 WSOs

1.33 INSTRUCTOR DESIGNATIONS

VMFAT FA-18A/C/D	
INSTRUCTOR DESIGNATION MATRIX (5000 Phase)	
INSTRUCTOR DESIGNATIONS	PILOTS / WSO
LATI	2
NSI	2
FAC(A)I	1
WTI	2 / 2
MDTI / SFTI	1
FRSI	44 / 5

1.34 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)

VMFAT FA-18A/C/D	
RCQD MATRIX (6000 PHASE)	
DESIGNATION	PILOTS
SECTION LEADER	44
DIVISION LEADER	44
QUALIFICATION	PILOTS / WSO
LSO	4
FCP	10
FAC(A) PILOT / WSO	5 / 5

BLANK

APPENDIX A

VMFA

Core

MCT 3.2.3.1.1	Conduct Close Air Support (CAS)
MCT 3.2.3.1.2.1	Conduct Strike (STK)
MCT 3.2.3.1.2.3	Conduct Strike Coordination and Reconnaissance (SCAR)
MCT 3.2.3.2	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]
MCT 3.2.3.2.1	Conduct Suppression of Enemy Air Defenses (SEAD)
MCT 6.1.1.8	Conduct Active Air Defense (AAD)

Core Plus

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites (EXP)
MCT 1.3.3.3.1	Conduct Aviation Operations From Expeditionary Sea-Based Sites (CQ)
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance (MIR)
MCT 3.2.5.4	Conduct Forward Air Control (Airborne) [FAC(A)]
MCT 3.2.7.5	Attack Enemy Maritime Targets (AMT)
MCT 6.1.1.11	Conduct Aerial Escort (AESC)

CORE

MCT 3.2.3.1.1 Conduct Close Air Support (CAS)

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 12 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct CAS observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander

Baseline Training Standard (70% of CMMR):

- 8 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct CAS IAW Joint CAS Publication (JP-3-09.3)

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.1 **Conduct Strike (STK)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 10 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct STK observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander

Baseline Training Standard (70% of CMMR):

- 7 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct STK IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.3 **Conduct Strike Coordination and Reconnaissance (SCAR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 10 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct SCAR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct SCAR IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2 Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 6 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct OAAW observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct OAAW IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2.1 **Conduct Suppression of Enemy Air Defense (SEAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 6 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct SEAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct SEAD IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 6.1.1.8 **Conduct Active Air Defense (AAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 10 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct AAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct AAD IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

Core Plus

MCT 1.3.3.3.2 Conduct Aviation Operations From Expeditionary Shore-Based Sites (EXP)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 12 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct EXP observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct EXP IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 1.3.3.1 **Conduct Aviation Operations From Expeditionary Sea-Based Sites (CO)**

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 16 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct CQ observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 11 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct CQ IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 2.2.5.2.2 **Conduct Multi-sensor Imagery Reconnaissance (MIR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level. Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 12 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct MIR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct MIR IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.5.4 **Conduct Forward Air Control (Airborne) [FAC(A)]**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 2 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct FAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 1 pilot MET capable IAW T&R requirements

Baseline Capability:

- Conduct FAC(A) IAW T&R

Output Standards:

- 4 sorties daily sustained during contingency/combat operations

MCT 3.2.7.5 **Attack Enemy Maritime Targets (AMT)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 12 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct AMT observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct AMT IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 6.1.1.11 **Conduct Aerial Escort (AESC)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591, 7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Advanced Training Standard (CMMR):

- 8 pilots MET capable IAW T&R requirements

Advanced Capability:

- Conduct AESC observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 5 pilots MET capable IAW T&R requirements

Baseline Capability:

- Conduct AESC IAW T&R

Output Standards:

- 16 sorties daily sustained during contingency/combat operations

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APPENDIX B

VMFA(AW)

CORE

MCT 3.2.3.1.1	Conduct Close Air Support (CAS)
MCT 3.2.3.1.2.1	Conduct Strike (STK)
MCT 3.2.3.1.2.3	Conduct Strike Coordination and Reconnaissance (SCAR)
MCT 3.2.3.2	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]
MCT 3.2.3.2.1	Conduct Suppression of Enemy Air Defenses (SEAD)
MCT 3.2.5.4	Conduct Forward Air Control (Airborne) [FAC(A)]
MCT 5.3.2.7.3	Conduct Tactical Air Coordination (Airborne) [TAC(A)] Operations
MCT 6.1.1.8	Conduct Active Air Defense (AAD)

CORE PLUS

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites (EXP)
MCT 1.3.3.3.1	Conduct Aviation Operations From Expeditionary Sea-Based Sites (CQ)
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance (MIR)
MCT 3.2.7.5	Attack Enemy Maritime Targets (AMT)
MCT 6.1.1.11	Conduct Aerial Escort (AESC)
MCT 3.2.5.4	Conduct Forward Air Control (Airborne) [FAC(A)]

CORE

MCT 3.2.3.1.1 **Conduct Close Air Support (CAS)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 12 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct CAS observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 crews MET capable IAW T&R requirements

Baseline Capability:

Conduct CAS IAW Joint CAS Publication (JP-3-09.3)

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.1 **Conduct Strike (STK)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct STK observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct STK IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.3 **Conduct Strike Coordination and Reconnaissance (SCAR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct SCAR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct SCAR IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2.1 **Conduct Suppression of Enemy Air Defense (SEAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 6 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct SEAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct SEAD IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 3.2.5.4 **Conduct Forward Air Control (Airborne) [FAC(A)]**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 4 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct FAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 3 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct FAC(A) IAW T&R

Output Standards:

- 8 sorties daily sustained during contingency/combat operations

MCT 6.1.1.8 **Conduct Active Air Defense (AAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct AAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct AAD IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2 **Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 6 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct OAAW observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct OAAW IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 5.3.2.7.3 **Conduct Tactical Air Coordination (Airborne) [TAC(A)] Operations**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 2 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct TAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 2 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct TAC(A) IAW T&R

Output Standards:

- 4 sorties daily sustained during contingency/combat operations

Core Plus

MCT 1.3.3.2 Conduct Aviation Operations From Expeditionary Shore-Based Sites (EXP)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 Aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training:

Advanced Training Standard (CMMR):

- 12 aircrew MET capable IAW T&R requirements

Advanced Capability:

- Conduct EXP observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 aircrew MET capable IAW T&R requirements

Baseline Capability:

- Conduct EXP IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 1.3.3.3.1 **Conduct Aviation Operations From Expeditionary Sea-Based Sites (CQ)**

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 0 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct SEA observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 0 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct SEA IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 2.2.5.2.2 **Conduct Multi-sensor Imagery Reconnaissance (MIR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 8 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct MIR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 5 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct MIR IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.7.5 **Attack Enemy Maritime Targets (AMT)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 8 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct AMT observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 5 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct AMT IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 6.1.1.11 **Conduct Aerial Escort (AESC)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 8 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct AESC observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 5 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct AESC IAW T&R

Output Standards

- 16 sorties daily sustained during contingency/combat operations

MCT 3.2.5.4 **Conduct Forward Air Control (Airborne) [FAC(A)]**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 4 crews MET capable IAW T&R requirements

Advanced Capability:

- Conduct FAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 3 crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct FAC(A) IAW T&R

Output Standards:

- 8 sorties daily sustained during contingency/combat operations

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APPENDIX C

VMFA Composite

CORE

MCT 3.2.3.1.1	Conduct Close Air Support (CAS)
MCT 3.2.3.1.2.1	Conduct Strike (STK)
MCT 3.2.3.1.2.3	Conduct Strike Coordination and Reconnaissance (SCAR)
MCT 3.2.3.2	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]
MCT 3.2.3.2.1	Conduct Suppression of Enemy Air Defenses (SEAD)
MCT 3.2.5.4	Conduct Forward Air Control (Airborne) [FAC(A)]
MCT 5.3.2.7.3	Conduct Tactical Air Coordination (Airborne) [TAC(A)] Operations
MCT 6.1.1.8	Conduct Active Air Defense (AAD)

CORE PLUS

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites (EXP)
MCT 1.3.3.3.1	Conduct Aviation Operations From Expeditionary Sea-Based Sites (CQ)
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance (MIR)
MCT 3.2.7.5	Attack Enemy Maritime Targets (AMT)
MCT 6.1.1.11	Conduct Aerial Escort (AESC)
MCT 3.2.5.4	Conduct Forward Air Control (Airborne) [FAC(A)]

CORE

MCT 3.2.3.1.1 **Conduct Close Air Support (CAS)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 12 Pilots and 5 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct CAS observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 8 Pilots and 3 WSOs MET capable IAW T&R requirements

Baseline Capability:

Conduct CAS IAW Joint CAS Publication (JP-3-09.3)

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.1 **Conduct Strike (STK)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 Pilots and 4 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct STK observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct STK IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.2.3 **Conduct Strike Coordination and Reconnaissance (SCAR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 Pilots and 4 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct SCAR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct SCAR IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2.1 **Conduct Suppression of Enemy Air Defense (SEAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 6 Pilots and 4 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct SEAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct SEAD IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 3.2.5.4 **Conduct Forward Air Control (Airborne) [FAC(A)]**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 3 Pilots and 3 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct FAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 2 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct FAC(A) IAW T&R

Output Standards:

6 sorties daily sustained during contingency/combat operations

MCT 6.1.1.8 **Conduct Active Air Defense (AAD)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

10 Pilots and 4 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct AAD observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct AAD IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.3.2 **Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 6 Pilots and 3 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct OAAW observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 4 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct OAAW IAW T&R

Output Standards:

- 12 sorties daily sustained during contingency/combat operations

MCT 5.3.2.7.3 **Conduct Tactical Air Coordination (Airborne) [TAC(A)] Operations**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 2 aircrew MET capable IAW T&R requirements

Advanced Capability:

- Conduct TAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 2 aircrew MET capable IAW T&R requirements

Baseline Capability:

- Conduct TAC(A) IAW T&R

Output Standards:

- 4 sorties daily sustained during contingency/combat operations

Core Plus

MCT 1.3.3.3.1 Conduct Aviation Operations From Expeditionary Sea-Based Sites (CO)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training:

Advanced Training Standard (CMMR):

- 0 aircrew MET capable IAW T&R requirements

Advanced Capability:

- Conduct EXP observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 0 aircrew MET capable IAW T&R requirements

Baseline Capability:

- Conduct EXP IAW T&R

Output Standards:

- 20 sorties daily sustained during contingency/combat operations

MCT 2.2.5.2.2 **Conduct Multi-sensor Imagery Reconnaissance (MIR)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 10 Pilots and 3 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct MIR observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 Pilots and 2 WSOs crews MET capable IAW T&R requirements

Baseline Capability:

- Conduct MIR IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 3.2.7.5 **Attack Enemy Maritime Targets (AMT)**

Conditions:

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

10 Pilots and 3 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct AMT observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 7 Pilots and 3 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct AMT IAW T&R

Output Standards

- 20 sorties daily sustained during contingency/combat operations

MCT 6.1.1.11 **Conduct Aerial Escort (AESC)**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local; No.

Standards:

Personnel

- 17 pilots and 5 WSO
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 8 Pilots 2 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct AESC observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 5 Pilots and 1 WSO MET capable IAW T&R requirements

Baseline Capability:

- Conduct AESC IAW T&R

Output Standards

- 16 sorties daily sustained during contingency/combat operations

MCT 3.2.5.4 **Conduct Forward Air Control (Airborne) [FAC(A)]**

Conditions:

C.1.3.1.3.11 Ceiling

Height of lowest cloud cover above sea level.

Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility

Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.

Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

Personnel

- 17 aircrew formed
- 90% of squadron T/O personnel MOS qualified and deployable.
- 90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577, 6591,7544,7547 and Level 2 (L2) Required Maintainer Competency (RMC) IAW ASL-1 basis for measurement.

Equipment

- 70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)
- Operational support equipment fully supports MCT

Training

Advanced Training Standard (CMMR):

- 3 Pilots and 3 WSOs MET capable IAW T&R requirements

Advanced Capability:

- Conduct FAC(A) observed by MATSS or MAWTS-1 evaluator and approved by the parent O-6 Commander.

Baseline Training Standard (70% of CMMR):

- 2 Pilots and 2 WSOs MET capable IAW T&R requirements

Baseline Capability:

- Conduct FAC(A) IAW T&R

Output Standards:

- 6 sorties daily sustained during contingency/combat operations

APPENDIX D
ABBREVIATIONS

VMFA, VMFA(AW), VMFA Composite VMFAT ABBREVIATIONS	
CORE INTRODUCTION SKILLS (1000 Phase)	
FAM	Familiarization
FRM	Formation
AWI	All Weather Intercept
AS	Air-to-Surface
CAS	Close Air Support
SCAR	Stike Coordination and Reconnaissance
FAC(A)	Forward Air Controller (Airborne)
LAT	Low Altitude Tactics
N/NSF	Night/Night Systems Familiarization
AAR	Air-to-Air Refueling
AA	Air-to-Air
BFM / OCF	Basic Fighter Maneuvers / Out of Control Flight
AAD	Active Air Defense
STK	Strike
FTN	Fleet Transition
CORE SKILLS (2000 Phase)	
FAM	Familiarization
AAR	Air-to-Air Refueling
AS	Air-to-Surface
NS	Night Systems
AA	Air-to-Air
LAT	Low Altitude Tactics
MISSION SKILLS (3000 Phase)	
CAS	Close Air Support
SCAR	Strike Coordination and Reconnaissance
AAD	Active Air Defense
SEAD	Suppression Of Enemy Air Defenses
OAAW	Offensive Anti-Air Warfare
STK	Strike
FAC(A)	Forward Air Controller (Airborne)
TAC(A)	Tactical Air Controller (Airborne)
CORE PLUS (4000 Phase)	
CORE PLUS SKILLS	
FCLP	Field Carrier Landing Practice
LFE	Large Force Exercise
FI	Fighter Integration
NSLAT	Night Systems Low Altitude Tactics
MISSION PLUS SKILLS	
CQ	Aviation Operations From Expeditionary Sea-Based Sites
MIR	Multi-Sensory Imagery Reconnaissance
AESC	Aerial Escort
AMT	Attack Maritime Targets
FAC(A)	Forward Air Controller (Airborne)
INSTRUCTOR TRAINING (5000 Phase)	
WTI	Weapons and Tactics Instructor
FAC(A)I	Forward Air Controller (Airborne) Instructor
LATI	Low Altitude Tactics Instructor
FLSE	Flight Leadership Standardization Evaluator
TAC(A)I	Tactical Air Coordinator (Airborne) Instructor
NSLATI	Night Systems Low Altitude Tactics Instructor
NSI	Night Systems Instructor
MDTI	Marine Division Tactics Instructor
SFTI	Strike Fighter Tactics Instructor
FAI	Fighter Attack Instructor

FRS INSTRUCTOR TRAINING (5000 Phase)	
FRSI	Fleet Replacement Squadron Instructor
TSNI	Transition Instructor
ASI	Air-to-Surface Instructor
CASI	Close Air Support Instructor
FFAC(A)I	FRS Forward Air Controller (Airborne) Instructor
FLATI	FRS Low Altitude Tactics Instructor
NSFI	Night Systems Familiarization Instructor
AARI	Air-to-Air Refueling Instructor
AAI	Air-to-Air Instructor
BFMI	Basic Fighter Maneuvers Instructor
AADI	Active Air Defense Instructor
STKI	Strike Instructor
OCFI	Out-of-Control Flight Instructor
FTNI	Fleet Transition Instructor
CI	Contract Instructor
COMBAT LEADERSHIP (6000 Phase)	
SEC LDR	Section Leader
DIV LDR	Division Leader
MSN CMDR	Mission Commander
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
FCP	Functional Check Pilot
NATOPS I	NATOPS Instructor
NATOPS E	NATOPS Evaluator
NATOPS II	NATOPS Instrument Instructor

**EXTERNAL SYLLABUS SUPPORT
RANGE REQUIREMENTS**

Category	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 40 nm is usually required.
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 1+	Supersonic	Any airspace that can support Supersonic Flight.	
CAT I	AAR	Air-to-Air Refueling	Any airspace that can support AAR.	
CAT II	TACTS	Tactical Air Combat Training System	TACTS range-capable. A sophisticated airspace tracking and display instrumentation system 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, NDBS, 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.	

Category	Abbreviation	Name	Description	Notes
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.
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.
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.	
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 or 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 for releasing INERT weapons on.	May include an unscored 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.	
CAT III	HE	HE Impact Area	Supports live HE ordnance. Implies EXP.	

Category	Abbreviation	Name	Description	Notes
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.	500 lb and above
CAT III	JDAM	JDAM Impact Area/Target	Supports JDAM release.	
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.	
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	GWVS	Ground Warfare Visual Simulator	Provides 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.	
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	STRUCTR	Structures	May include a building, bunker, or revetment. IR-significant desired. Inert weapons release authorized. LSR capable. WISS desired.	

Appendix E
Readiness Supplements

VMFA

VMFA SQUADRON																						
12 FA-18A/C																						
MISSION ESSENTIAL TASK	MISSION SKILL	DESCRIPTION	DAILY OUTPUT STANDARD {SORTIES} PER MET	CREWS TRAINED PILOTS CMMR (MSP) ADVANCED STANDARD	CREWS TRAINED PILOTS 70% CMMR (MSP) BASELINE STANDARD	AIRCRAFT MAINTENANCE			TABLE OF ORG PILOTS	STAFFING GOAL	CREWS FORMED	COLLECTIVE MAX DAILY SORTIE OUTPUT	SECTION LEADER (SL)	DIVISION LEADER (DL)	MISSION COMMANDER (MC)							
						PAA	MC	# MC														
MCT 3.2.3.1.1	CAS	Conduct Close Air Support	20	12	8	12	70%	8	19	17	17	20	10	6	4							
MCT 3.2.3.1.2.1	STK	Conduct Strike	20	10	7	12	70%	8														
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance	20	10	7	12	70%	8														
MCT 6.1.1.8	AAD	Conduct Active Air Defense	20	10	7	12	70%	8														
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses	12	6	4	12	70%	8														
MCT 3.2.3.2	OAAW	Conduct Anti-air Warfare [Offensive Anti-air Warfare (OAAW)]	12	6	4	12	70%	8														
CORE PLUS																						
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites	20	12	8	12	70%	8														
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites	20	16	11	12	70%	8														
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance	20	12	8	12	70%	8														
MCT 6.1.1.11	AESC	Conduct Aerial Escort	16	8	5	12	70%	8														
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets	20	12	8	12	70%	8														
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)	4	2	1	12	70%	8														
PARA 1.3			PARA 1.6	PARA 1.7		PARA 1.2	MET WORKSHEET	PARA 1.2	MET Worksheets	PARA 1.6	PARA 1.7											
90% critical MOS fill: 7523,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591,7547.																						
70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)																						

VMFA(AW)

VMFA(AW) SQUADRON																												
12 FA-18D																												
MISSION ESSENTIAL TASK	MISSION SKILL	DESCRIPTION	DAILY OUTPUT STANDARD {SORTIES} PER MET	CREWS TRAINED PILOTS CMMR (MSP)	CREWS TRAINED PILOTS CMMR (MSP)	CREWS TRAINED PILOTS 70% CMMR (MSP)	CREWS TRAINED PILOTS 70% CMMR (MSP)	AIRCRAFT MAINTENANCE			TABLE OF ORG PILOTS	STAFFING GOAL PILOTS	TABLE OF ORG WS Os	STAFFING GOAL WS Os	CREWS FORMED	COLLECTIVE MAX DAILY SORTIE OUTPUT	SECTION LEADER (SL)	DIVISION LEADER (DL)	MISSION COMMANDER (MC)									
				ADVANCED TRAINING STANDARD	ADVANCED TRAINING STANDARD	BASELINE TRAINING STANDARD	BASELINE TRAINING STANDARD	PAA	MC	#MC																		
MCT 3.2.3.1.1	CAS	Conduct Close Air Support	20	12	12	8	8	12	70%	8	19	17	19	17	17	20	10	6	4									
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance	20	10	10	7	7	12	70%	8																		
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses	12	6	6	4	4	12	70%	8																		
MCT 3.2.3.1.2.1	STK	Conduct Strike	20	10	10	7	7	12	70%	8																		
MCT 6.1.1.8	AAD	Conduct Active Air Defense	20	10	10	7	7	12	70%	8																		
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)	8	4	4	3	3	12	70%	8																		
MCT 3.2.3.2	OAAW	Conduct Anti-air Warfare [Offensive Anti-air Warfare (OAAW)]	12	6	6	4	4	12	70%	8																		
MCT 5.3.2.7.3	TAC(A)	Conduct Tactical Coordination (Airborne) Operations	4	2	2	2	2	12	70%	8																		
CORE PLUS																												
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites	20	12	12	8	8	12	70%	8	19	17	19	17	17	20	10	6	4									
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites	20	0	0	0	0	12	70%	8																		
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance	20	8	8	5	5	12	70%	8																		
MCT 6.1.1.11	AESC	Conduct Aerial Escort	16	8	8	5	5	12	70%	8																		
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets	20	8	8	5	5	12	70%	8																		
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)	8	4	4	3	3	12	70%	8																		
PARA 1.3			PARA 1.6	PARA 1.7				PARA 1.2	MET WORKSHEET											PARA 1.2			MET Worksheet	PARA 1.6		PARA 1.7		
90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591,7544,7547.																												
70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)																												

VMFA Composite

VMFA Composite SQUADRON																			
7 FA-18C / 5 FA-18D																			
MISSION ESSENTIAL TASK	MISSION SKILL	DESCRIPTION	DAILY OUTPUT STANDARD {SORTIES} PER MET	CREWS TRAINED PILOTS CMMR (MSP) ADVANCED STANDARD	CREWS TRAINED WSOs CMMR (MSP) ADVANCED STANDARD	CREWS TRAINED PILOTS 70% CMMR (MSP) BASELINE STANDARD	CREWS TRAINED WSOs 70% CMMR (MSP) BASELINE STANDARD	AIRCRAFT MAINTENANCE			TABLE OF ORG PILOTS	STAFFING GOAL PILOTS	TABLE OF ORG WSOs	STAFFING GOAL WSOs	CREWS FORMED	COLLECTIVE MAX DAILY SORTIE OUTPUT	SECTION LEADER (SL)	DIVISION LEADER (DL)	MISSION COMMANDER (MC)
								PAA	MC	#MC									
MCT 3.2.3.1.1	CAS	Conduct Close Air Support	20	12	5	8	3	12	70%	8	19	17	7	6	17	20	10	6	4
MCT 3.2.3.1.2.3	SCAR	Conduct Strike Coordination and Reconnaissance	20	10	4	7	2	12	70%	8									
MCT 3.2.3.2.1	SEAD	Conduct Suppression of Enemy Air Defenses	12	6	4	4	2	12	70%	8									
MCT 3.2.3.1.2.1	STK	Conduct Strike	20	10	4	7	2	12	70%	8									
MCT 6.1.1.8	AAD	Conduct Active Air Defense	20	10	4	7	2	12	70%	8									
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)	6	3	3	2	2	12	70%	8									
MCT 3.2.3.2	OAAW	Conduct Antiair Warfare [Offensive Antiair Warfare (OAAW)]	12	6	3	4	2	12	70%	8									
MCT 5.3.2.7.3	TAC(A)	Conduct Tactical Coordination (Airborne) Operations	4	2		2		12	70%	8									
CORE PLUS																			
MCT 1.3.3.3.2	EXP	Conduct Aviation Operations from Expeditionary Shore-Based Sites	20	12	4	8	2	12	70%	8									
MCT 1.3.3.3.1	CQ	Conduct Aviation Operations From Expeditionary Sea-Based Sites	20	0	0	0	0	12	70%	8									
MCT 2.2.5.2.2	MIR	Conduct Multi-Sensor Imagery Reconnaissance	20	10	3	7	2	12	70%	8									
MCT 6.1.1.11	AESC	Conduct Aerial Escort	16	8	2	5	1	12	70%	8									
MCT 3.2.7.5	AMT	Attack Enemy Maritime Targets	20	10	3	7	2	12	70%	8									
MCT 3.2.5.4	FAC(A)	Conduct Forward Air Control (Airborne)	6	3	3	2	2	12	70%	8									
PARA 1.3			PARA 1.6	PARA 1.7				PARA 1.2	MET WORKSHEET		PARA 1.2			MET WORKSHEET	PARA 1.6	PARA 1.7			
90% critical MOS fill: 7523,7525,6019,6287,6337,6257,6317,6531,6217,6048,6012,6016,6017,6018,7577,6591,7544,7547.																			
70% Mission Capable aircraft with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET. (8 aircraft)																			

CHAPTER 2

FA-18 PILOT/WSO

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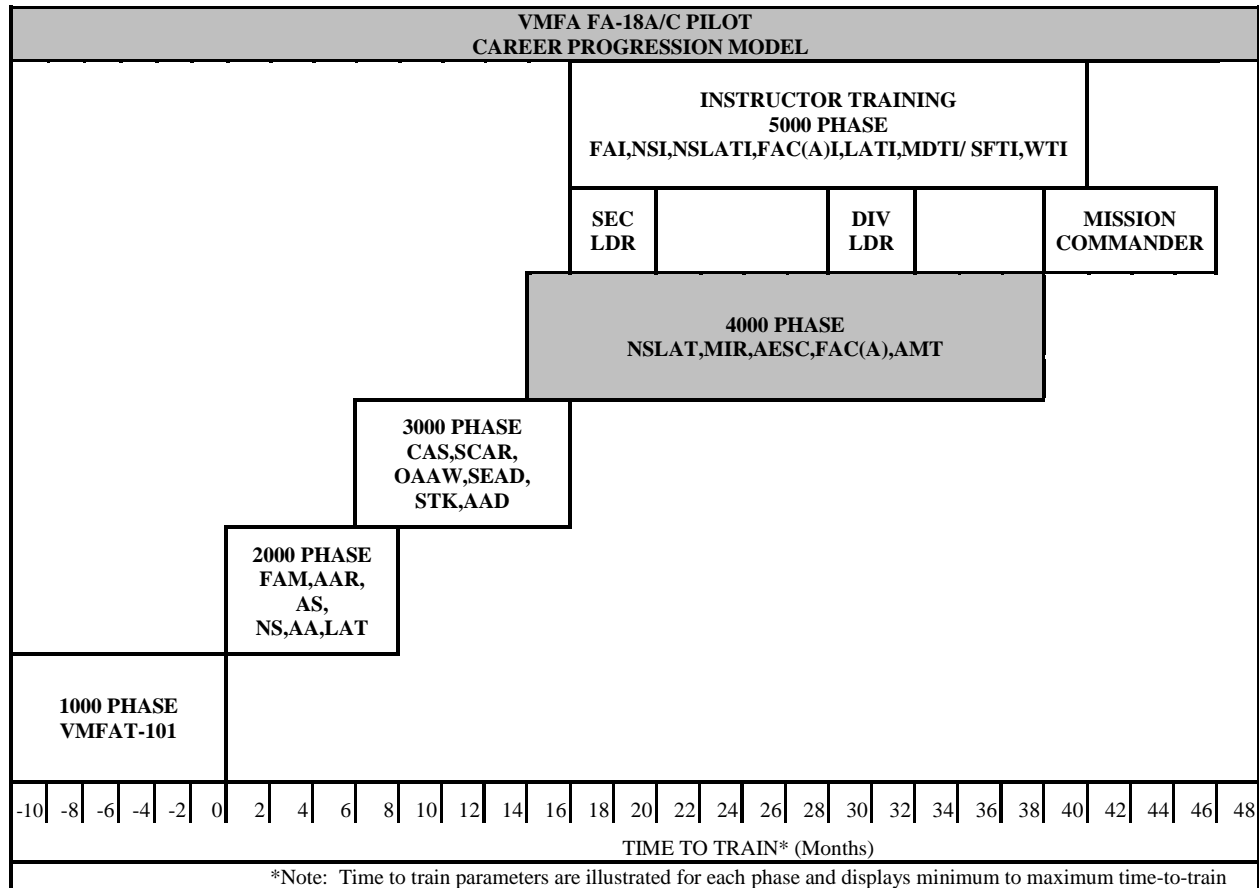
CHAPTER 2

FA-18 PILOT/WSO

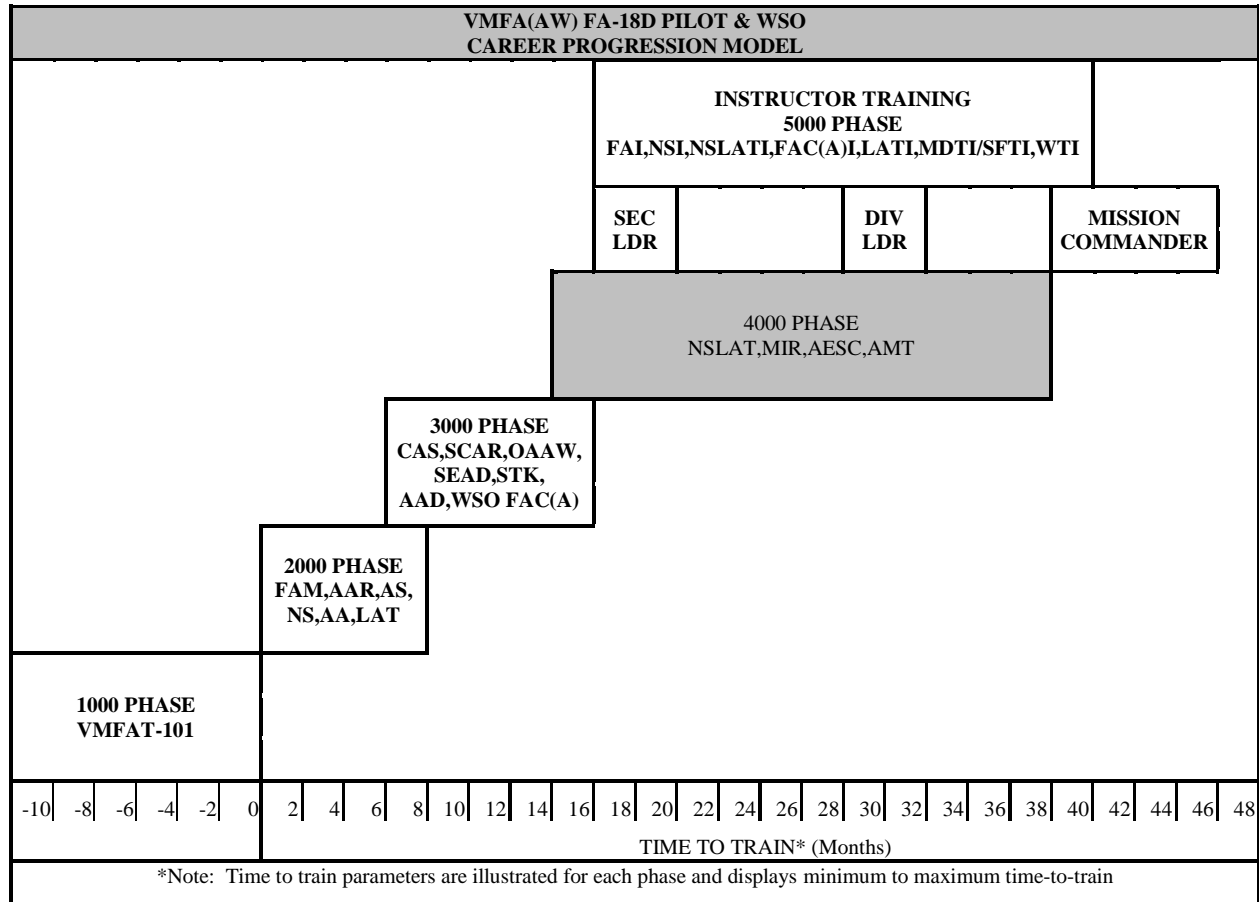
2.0 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core Introduction, Core, Mission and Core Plus Skills. The goal of this chapter is to develop individual and unit war fighting capabilities.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

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

2.1.1 FA-18A/C Pilot Career Progression Model



2.1.2 FA-18D Pilot & WSO Career Progression Model



2.2 FA-18 PILOT/WSO PROGRAMS OF INSTRUCTION

2.2.1 Basic POI (CAT I/II). Represents the average time-to-train by Phase (1000-3000). Basic POI required events are denoted by a 'B' in event headers or in the appropriate Attain column in event matrices for all Phases.

FA-18 BASIC POI (PILOT & WSO)		
WEEKS	COURSE	PERFORMING ACTIVITY
44P / 36W	Core Introduction Training	FRS
24	Core Training	Tactical Squadron
23	Mission Training	Tactical Squadron

2.2.2 Refresher POI (CAT III). Represents the average time-to-train by Phase (1000-3000). (731 days or greater since last FA-18 flight.) Refresher POI required events are denoted by an 'R' in event headers or in the appropriate Attain column in event matrices for all Phases.

FA-18 REFRESHER POI (PILOT & WSO)		
WEEKS	COURSE	PERFORMING ACTIVITY
16	Core Introduction Training	FRS
23	Core Training	Tactical Squadron
23	Mission Training	Tactical Squadron

2.2.3 Modified Refresher POI (CAT IV). Represents the average time-to-train by Phase (1000-3000). (486 days or greater but not greater than 730 days since last FA-18 A-D flight.) Modified Refresh POI required events are denoted by a 'MR' in event headers or in the appropriate Attain column in event matrices for the 1000 Phase only.

FA-18 MODIFIED REFRESHER POI (PILOT & WSO)		
WEEKS	COURSE	PERFORMING ACTIVITY
5	Core Introduction Training	FRS
23	Core Training	Tactical Squadron
23	Mission Training	Tactical Squadron

2.2.4 Safe-for-Solo POI (CAT V). Represents the average time-to-train by Phase (1000-3000). (366 days or greater but not greater than 485 days since last FA-18 A-D flight – pilot only.) Safe-for-Solo POI required events are denoted by a ‘SS’ in event headers or in the appropriate Attain column in event matrices for the 1000 Phase only.

FA-18 SAFE-FOR-SOLO REFRESHER POI (PILOT)		
WEEKS	COURSE	PERFORMING ACTIVITY
5	Core Introduction Training	FRS
23	Core Training	Tactical Squadron
23	Mission Training	Tactical Squadron

2.3 PROFICIENCY & CURRENCY

2.3.1 Event Proficiency. Event proficiency is defined as successful completion of the performance standard as determined by the instructor or evaluator. Event completion is predicated upon demonstrated proficiency. Once completed, it is logged in M-SHARP by entering the appropriate event code. M-SHARP automatically updates the event proficiency date to reflect the completion date.

2.3.2 Skill Proficiency. Proficiency is a measure of achievement of a specific skill. To attain Individual Skill proficiency, an individual must be simultaneously proficient in all events for that Skill. Individuals may be attaining proficiency in some skills while maintaining proficiency in others.

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a Proficiency Period (Maintain events). Proficiency Periods establish the maximum time between Event demonstration. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the Event(s) that are not proficient. For flying communities, an individual shall complete delinquent events with a proficient instructor, crewman/flight lead as delineated by the T/M/S Syllabus Sponsor (see Chapter 3 of the Program Manual on specific instructor requirements for Low Altitude Flight, Night Systems, ACM, DM, DACM, DCM, FAC(A)).

Loss Of Individual Skill Proficiency. Should an individual lose proficiency in all maintain events in a skill, the individual will be assigned to the Refresher POI for the skill. To regain skill proficiency, the individual must demonstrate proficiency in all R-coded events for the skill.

Loss of Unit Skill Proficiency. If an entire unit loses proficiency in an Event, unit instructors shall regain proficiency by completing the Event with an instructor from a like unit. If not feasible, the instructor shall regain proficiency by completing the Event with another instructor. For flying communities, if a unit has only one instructor and cannot complete the Event with an instructor from another unit, the instructor shall regain proficiency with another aircraft commander or as designated by the commanding officer.

Proficiency Status. Proficiency is a “Yes/No” status by skill assigned to an individual. When an individual attains and maintains Core Skill Proficiency (CSP), Mission Skill Proficiency (MSP), Core Plus Skill Proficiency (CPSP), or Mission Plus Skill Proficiency (MPSP), the individual may count towards CMMR or CMTS.

2.3.3 Skill Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS’s that must comply with NATOPS and OPNAV

requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3 of the Program Manual.

2.4 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (RCOD) TABLES

VMFA FA-18A/C	
QUALIFICATION AND DESIGNATION REQUIREMENTS	
QUALIFICATION	REQUIREMENTS
NATOPS (6101)	IAW CNAF-M-3710 (6101,6801,6802,6803)
INSTRUMENT (6102)	IAW CNAF-M- 3710 (6102,6804,6805)
DAY CQ QUAL (6201)	S4101,4102,4104,6201
NIGHT CQ QUAL (6202)	S4101,4103,4105,6202
LAT QUAL (6203)	S2601,2602,2603,6203
NSLAT QUAL (6204)	4701,4702,4703,6204
LSO QUAL (6205)	IAW LSO SCHOOL CURRICULUM,6205
PMCF QUAL (6206)	S6110,6206
FAC(A) QUAL (6207)	S4801,S4802,4803,4804,4805,4806,S4807,4808,S4809,6207
NS QUAL (6209)	S2401,2402,2403,2404,2405,6209
ACM QUAL (6210)	2501,2502,2503,2504,S2505,S2506,S2507,2508,2509,6210
DESIGNATION	REQUIREMENTS
SECTION LEAD (6312)	6301,S6302,6303,S6304,6305,6306,6307,6308,6309,S6310,S6311,6312
DIVISION LEAD (6407)	S6401,6402,S6403,6404,S6405,6406,6407
MISSION COMMANDER (6503)	6501,6502,6503
LATI (5104)	S5101,5102,5103,5104, S5105
NSLATI (5204)	S5201,5202,S5203,5204
FAC(A)I (5304)	S5301,5302,5303, 5304
FAI (5414)	S5401,5402,5403,5404,5405,S5406,L5407,L5408,L5409,5410,5411,L5412,5413,5414
FLSE (5602)	L5601, 5602
NSI (5705)	S5701,5702,L5703,S5704,5705
WTI (6601)	IAW MAWTS-1 COURSE CATALOG, 6601
MDTI (6602)	IAW MAWTS-1 COURSE CATALOG, 6602
SFTI (6603)	IAW NAWDC N7 COURSE CATALOG, 6603
NATOPS INSTRUCTOR (6101)	S6101, Annual CO Designation
NATOPS EVALUATOR (6101)	S6101, Annual CO Designation
NATOPS INSTRUMENT INSTRUCTOR (6102)	S6102, MAG CO Designation

VMFA(AW) FA-18D	
QUALIFICATION AND DESIGNATION REQUIREMENTS	
QUALIFICATION	REQUIREMENTS
NATOPS (6101)	IAW CNAF-M-3710 (6101,6801,6802,6803)
INSTRUMENT (6102)	IAW CNAF-M-3710 (6804,6805,6102)
DAY CQ QUAL (6201)	S4101,4102,4104,6201
NIGHT CQ QUAL 6202)	S4101,4103,4105,6202
LAT QUAL (6203)	S2601,2602,2603,6203
NSLAT QUAL (6204)	4701,4702,4703,6204
LSO QUAL (6205)	IAW LSO SCHOOL CURRICULUM,6205
PMCF QUAL (6206)	S6110,6206
FAC(A) QUAL (6207)	S3801,S3802,3803,3804,3805,3806,S3807,3808,S3809, 6207
TAC(A) QUAL (6208)	3901,6208
NS QUAL (6209)	S2401,2402,2403,2404,2405,6209
ACM QUAL (6210)	2501,2502,2503,2504,S2505,S2506,S2507,2508,2509,6210
DESIGNATION	REQUIREMENTS
SECTION LEAD (6312)	6301,S6302,6303,S6304,6305,6306,6307,6308,6309,S6310,S6311,6312
DIVISION LEAD (6407)	6401,6402,S6403,6404,S6405,6406,6407
MISSION COMMANDER (6503)	6501,6502,6503
LATI (5104)	S5101,5102,5103,5104, S5105
NSLATI (5204)	S5201,5202,5203,5204

FAC(A)I (5303)	S5301,5302,5303
FAI (5411)	S5401,5402,5403,5404,5405,S5406,L5407,L5408,L5409,5410,5411,L5412,5413,5414
TAC(A)I (5501)	5501
FLSE (5602)	L5601, 5602
NSI (5705)	S5701,5702,L5703,S5704,5705
WTI (6601)	IAW MAWTS-1 COURSE CATALOG,6601
MDTI (6602)	IAW MAWTS-1 COURSE CATALOG, 6002
SFTI (6603)	IAW NAWDC N7 COURSE CATALOG, 6603
NATOPS INSTRUCTOR (6101)	S6101, Annual CO Designation
NATOPS EVALUATOR (6101)	S6101, Annual CO Designation
NATOPS INSTRUMENT INSTRUCTOR (6102)	S6102, MAG CO Designation

VMFA FA-18A/C/D FRS INSTRUCTOR	
QUALIFICATION AND DESIGNATION REQUIREMENTS	
DESIGNATION	REQUIREMENTS
FRS ODO (5804)	5803,S5804
TSNI (5813)	6407,5801,5802,5803,5804,5805,5806,5807,L5808,S5809(P),5810(P),5811(P),5812,5813
TSN STAN I (5813)	6407,5801,5802,5803,5804,5805,5806,5807,L5808,S5809(P),5810(P),5811(P),5812,5813, CO Designation
ASI (5819)	5814,5815(P),5816,L5817(P),5818(P),L5819
AS STAN I (5819)	5814,5815(P),5816,L5817(P),5818(P),L5819, CO Designation
CASI (5823W, 5824P)	5820,S5821,S5822(P),5823,5824(P)
CAS STAN I (5823W, 5824P)	5820,S5821,S5822(P),5823,5824(P), CO Designation
FFAC(A)I PILOT (5828)	5825,S5826,5828
FFAC(A)I WSO (5828)	5825,S5827,5828
FFAC(A) STAN I PILOT (5828)	5825,S5826,5828, CO Designation
FFAC(A) STAN I WSO (5828)	5825,S5827,5828, CO Designation
FLATI (5832)	5829,S5830,5831,5832
FLAT STAN I (5832)	5829,S5830,5831,5832, CO Designation
NSFI (5836)	L5833,S5834,5835,5836
NSF STAN I (5836)	L5833,S5834,5835,5836, CO Designation
AARI (5837)	5837
AAR STAN I (5837)	5837, CO Designation
AAI (5841)	5838,5839,S5840,5841
AA STAN I (5841)	5838,5839,S5840,5841, CO Designation
BFMI (5848)	5842,L5843,L5844,L5845,5846,5847,5848
BFM STAN I (5848)	5842,L5843,L5844,L5845,5846,5847,5848, CO Designation
AADI (5856)	5849,5850,L5851,S5852,S5853,S5854,5855,5856
AAD STAN I (5856)	5849,5850,L5851,S5852,S5853,S5854,5855,5856, CO Designation
STKI (5859)	5857,S5858,5859
STK STAN I (5859)	5857,S5858,5859, CO Designation
OCFI (5862)	5860,5861,5862
OCF STAN I (5862)	5860,5861,5862, VX-23 Recommendation, CO Designation
FTNI (5864)	5863,5864
FTN STAN I (5864)	5863,5864, CO Designation
FAM CI (5877)	5870,S5871,5872,5873
AWI CI (5880)	S58784,5875,5876
AS CI (5883)	S5877,5878,5879
LAT CI (5886)	S5880,5881,5882
PGM CI (5889)	S5883,5884,5885
CAS CI (5892)	S5886,5887,5888
AA CI (5895)	S5889,5890,5891
AAD CI (5898)	S5892,5893,5894
STK CI (5900)	5895,5896
CI STAN I	5873, CO Designation

2.5 SYLLABUS NOTES

2.5.1 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 applicable tactical publications, performance standards, and aircrew expectations.

2.5.2 All events, to include simulators, shall conclude with a comprehensive debrief with emphasis on aircrew

performance utilizing all evaluation techniques available (e.g., TCTS, BDS, tapes, participating aircrews, and AIC personnel).

2.5.3 ATF/EATF

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

The following requirements will be included on all EATFs: Preparation/Brief; Admin; Tac Admin; Mission Execution; TCC; Headwork/CRM; Training Rules Adherence; Debrief/Professionalism. Items listed in individual event descriptions will be included in the Requirements section of each EATF, but shall not be gradable.

2.5.4 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 CVN), 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.

2.5.5 T&R Phases

The 1000 phase is the Core Introduction phase of training conducted at the FRS for basic and refresher POIs. Completion of the 1000 phase should provide the FA-18 aircrew with the basic skills required to execute FA-18 core skills.

The 2000 phase is the Core phase of 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.

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

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

The 5000 phase contains instructor workup and certification syllabus events, as well as FLSE events.

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

Mission Skill Proficiency (MSP), along with Combat Leadership, are considered the basis for readiness reporting.

2.5.6 Stage Progression. The events within a stage should be flown in order. Aircrew should complete the prerequisites prior to beginning that stage. Refer to the Program Manual for the waiver and deferral policy. Waivers should be avoided to the greatest extent possible.

2.5.7 Ground/Academic Training. Academic instruction falls into self-paced reading, computer based training, chalk talks, laboratories, and lectures in the training progression. The FA-18 Course Catalog outlines the recommended self-paced reading and local unit chalk talks, both sponsored by the unit training officer or designated instructor. VMFAT-101 will be the source for all 1000 phase academic lectures. MAWTS-1 or TOPGUN will be the source for 2000-6000 phase lectures listed in the instructor column in the table at the end of this T&R. To add to the quality and scope of lectures, the commanding officer should ensure that appropriately qualified individuals are sent to the schools listed below as a minimum.

FA-18 SCHOOLS	
COURSE	ACTIVITY
Weapons and Tactics Instructor (WTI)	MAWTS-1 MCAS Yuma
Marine Division Tactics Course (MDTC)	MAWTS-1 MCAS Yuma
Navy Fighter Weapons School (SFTI)	NAWDC NAS Fallon
ARM University	NAWC China Lake
SLAM(ER) School	NAS Point Mugu
SLATS	NAWDC NAS Fallon
Warfighter School	Raytheon Tucson

2.5.8 **Simulators.** Flight simulators are required to enhance flight training and airborne proficiency. Two classes of simulators are authorized for use in the FA-18 T&R: High Fidelity (TOFT) and Low Cost Trainers (LCT). High Fidelity trainers are authorized for all T&R simulator events and will be denoted by the “S” symbol. Low Cost Trainers (LCT) are only authorized for specific T&R simulator events and when authorized will be denoted by the “S*” symbol. When an LCT is equipped as an aft cockpit and connected to a TOFT, this combination will constitute a High Fidelity trainer and satisfy use for all T&R simulator events. Additionally, an LCT configured as a front cockpit may serve as a wingman to a High Fidelity trainer in order to accomplish a T&R simulator event for the High Fidelity trainer. However, in this instance the aircrew in the LCT will be unable to log the T&R code for the event. If an LCT is authorized for use on a T&R simulator event, it may only be used to achieve “R” (Refresher POI) or “M” (Maintain POI) coded proficiency. All “B” coded (Basic POI) events must be accomplished in a High Fidelity trainer before they may be refreshed or maintained in an LCT. Finally, an LCT shall not be used during any T&R simulator mission with a “NS” condition code. Simulators shall be flown in the prescribed order of training when squadrons are co-located with mission capable simulators. Where TOFT simulators are not available in sufficient quantity to achieve or maintain MET proficiency, MAG commanders may authorize additional simulator events be either deferred to a later date, flown in the aircraft, or accomplished in LCT. This authorization exclusively applies to 4th MAW when section or division training events are unable to be accomplished in TOFT devices. 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. Refer to the Program manual for deviations from policy.

2.5.9 **Proficiency Accountability.** In order to complete a T&R code, aircrew must satisfactorily complete event requirements per assigned Performance Standards.

2.5.10 **FAC(A), CAS, SCAR, STK** – 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-3103 (Day GP CAS) with the required ordnance (4 Mk-82/83, 250 20mm). The training officer may schedule additional training codes of AS-2303 (Dive deliveries) and AS-2304 (Pops and strafe) in anticipation of conducting attacks that will test those skill sets. 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). 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. 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.

2.5.11 **Requirements coding.** Aircraft/Simulators: Some of the syllabus events in the T&R have 1+ or 2+ devices required. 1+ device required implies that the flight may be flown as a single ship or greater. 2+ devices required implies that the flight may be flown as a section or greater. 4(2) simulators required implies that the events may be conducted as a section simulator for commands lacking a division simulation capability. Night Systems (NS): refers to the option of conducting the sortie at night and aided with night vision goggles (NVG). An asterisk(*) following the type of evaluator required to evaluate (e.g., FAI*) implies that the listed designation or other specific designations are required to evaluate the event. The stage (e.g., AA-2500 stage) description and/or individual T&R event description will provide guidance for evaluator requirements.

DEVICE	
Symbol	Meaning
A	Flown in Aircraft
A/S	Aircraft preferred may be flown in Simulator
S	Flown in Simulator
S*	Flown in Simulator with High Fidelity or Low Cost trainer
S/A	Simulator preferred may be flown in Aircraft
G	Ground/academic training. May include Distance Learning, CBT, lectures, self-paced.
CBT	Computer Based Training
LAB	Laboratory
LEC	Lecture

TEN	Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station.
TEN+	Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement.
Note – If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	
Code	Environmental Condition
D	Shall be flown or conducted during day
N	Shall be flown or conducted at night (using available night vision devices or flown unaided) at least 30 minutes after official sunset.
(N)	May be flown or conducted day or night; if at night, available night vision devices may be used or flown unaided
D/NS	Shall be conducted in the simulator during day and night aided
NS	Shall be flown or conducted at night using available night vision devices at least 30 minutes after official sunset
(NS)	May be flown or conducted day or night; if at night, available night vision devices shall be used
N*	Event Shall be flown or conducted at night unaided
(N*)	Event may be flown or conducted at night; if at night, shall be flown unaided

2.5.12 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.

2.5.13 Performance Standards. Performance standards are listed for each T&R event description. Unless otherwise listed in individual event descriptions, 1000 phase FRS performance standards are listed separately in the local VMFAT-101 FRS Syllabus Guide. These are training standards for individual aircrew performance and shall 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. Reference NAVMC 3500.14E paragraph 2.15 for event waiver, or deferral

2.5.14 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. Non-proficient, never been attempted, and/or incomplete events will not 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 NVGs will chain NS-2402. Simulators will not chain flights.

2.5.15 T&R Mirroring. NATOPS related events in the 1000 phase mirror to corresponding codes in the 6000 phase and will maintain the proficiency window prescribed in the 6000 phase event. See FRS event matrices at the end of this chapter for applicable events and mirrored codes.

2.5.167 FA-18 Refresher POI. The FA-18 Refresher POI syllabus includes Core Introduction, Core, and Mission Skills and shall be completed as required at the FRS and tactical squadrons. Aircrew shall fly all R coded events. The commanding officer may add events to the Refresher syllabus. For waiver authority see NAVMC 3500.14.

2.5.17 FA-18 FRS Training. FA-18 A/C/D FRS training is provided at the designated FRS (VMFAT-101). VMFAT-101 is the 1000 Phase syllabus sponsor for T&R revisions.

2.5.18 FRS Refresher Syllabi

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

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

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

2.5.19 Syllabus Training Exceptions. Reference NAVMC 3500.14E paragraph 2.15 for event waiver, or deferral

2.6 CORE INTRODUCTION PHASE

2.6.1 Purpose. This phase introduces newly winged aviators to and refreshes aircrew on the basic skills required to employ the FA-18A-D. This phase should provide aircrew with the necessary introductions to skills required to complete the 2000 phase. This phase shall be completed per NAVMC 3500.14D and results in initial NATOPS qualification and MOS qualification as a basic aircrew.

2.6.2 General. Satisfactory performance metrics for Core Introduction syllabus events are determined and maintained by VMFAT-101. These performance standards are based on applicable publications (e.g. F/A-18 NATOPS Manual, CNAF M-3710, FA-18 ANTP, etc.) but are tailored to fit adequate aircrew performance that is commensurate with an acceptable level of progression. Additional performance standards are specified for each stage when applicable. The passing grade on written examinations is 80 percent. The syllabus is broken up into two concurrently running phases: Core Introduction Academic Phase (self-paced reading, computer based training, and lectures) and Core Introduction Phase (simulators and flights). All 1000 Phase FRS events do not have a proficiency period.

2.6.3 Specifics. The FRS syllabus is broken up into stages that generally fall into four training phases: Transition, Air-to-Ground, Air-to-Air, and Fleet Transition. The stages are listed in the table below.

OVERVIEW				
STAGE	ACADEMIC CODES	SIMULATOR/ FLIGHT CODES	PARAGRAPH	PAGE NUMBER
FAMILIARIZATION (FAM)	00XX	10XX	2.7.1	2-11
FORMATION (FRM)	01XX	11XX	2.7.2	2-24
ALL WEATHER INTERCEPT (AWI)	02XX	12XX	2.7.3	2-26
AIR-TO-SURFACE (AS)	030X	130X	2.7.4	2-30
CLOSE AIR SUPPORT (CAS)	034X	134X	2.7.5	2-39
STRIKE COORDINATION AND RECONNAISSANCE (SCAR)	035X	135X	2.7.6	2-45
FORWARD AIR CONTROLLER (AIRBORNE) (FAC(A))	036X	136X	2.7.7	2-46
LOW ALTITUDE TACTICS (LAT)	04XX	14XX	2.7.8	2-48
NIGHT/NIGHT SYSTEMS FAMILIARIZATION (N/NSF)	05XX	15XX	2.7.9	2-52
AIR-TO-AIR REFUELING (AAR)	06XX	16XX	2.7.10	2-55
AIR-TO-AIR (AA)	070X	170X	2.7.11	2-56
BASIC FIGHTER MANEUVERS (BFM) / OUT OF CONTROL FLIGHT (OCF)	072X	172X	2.7.12	2-66
ACTIVE AIR DEFENSE (AAD)	080X	180X	2.7.13	2-73
STRIKE (STK)	082X	182X	2.7.14	2-78
FLEET TRANSITION (FTN)	09XX	19XX	2.7.15	2-79

2.7 CORE INTRODUCTION STAGES

2.7.1 FAMILIARIZATION (FAM)

2.7.1.1 Purpose. To provide an introduction to the FA-18 flight characteristics, limitations, systems, and normal and emergency operating procedures.

2.7.1.2 General. FAM shall be completed prior to executing any flight events from follow-on stages. Upon completion of this stage, RAC will be familiar with the aircraft, system functions, normal operating procedures, and emergency procedures. The baseline instructor is a FAM CI or FAMI. Aircraft should be configured with operable VTR/CVRS and no ordnance during this stage to facilitate multiple landings on every flight.

2.7.1.3 Stage Overview. Aircrew shall complete all FAM academic codes concurrently with simulators and flights, and prior to completion of this stage of training. In addition, RAC are expected to become familiar with guiding SOPs to include CNAF M-3710.7, FA-18 NATOPS, USMC FA-18 Admin SOP, Wing, MAG, and Squadron SOPs, and Standardization Notes.

2.7.1.4 Training Requirements. Additional requirements are to be performed on the flights assigned below. If the

requirements cannot be accomplished on the designated flight (weather, runway, configuration, etc.) it shall be completed NLT FAM-1020. When the requirement has been completed, log the appropriate FRS flight skill tracking code (RQD-6120 or 6121) in conjunction with the event flown.

FAM REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
ROLL AND GO (RQD-6120)	FAM-1014
PRECISION APPROACHES	FAM-1015,1016
NON-PRECISION APPROACH	FAM-1015,1016
STANDBY INS PRECISION APPROACH (RQD-6121)	FAM-1016

SFAM-1001 2.0 * B, R, MR, SS D S 1 TOFT

Goal. Normal Operations I. Introduce FA-18 cockpit controls, engine start, takeoff, normal operations, course rules, RTB and landing procedures completing all appropriate checklists.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Cockpit switchology and set up procedures
Start procedures
Departure procedures
VFR recovery
FCLP pattern
Roll & Go
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0038, 0044, 0046, 0052

R: 0001, 0002-0022, 0023~(W), 0024-0029, 0033, 0035, 0038, 0039, 0040, 0043, 0046

MR: 0001, 0002-0022, 0023~(W), 0024-0029, 0035, 0038, 0039, 0040, 0043, 0046

SS: 0001, 0002-0022, 0024-0029, 0035, 0038, 0039, 0040, 0043, 0046

SFAM-1002 1.5 * B D S 1 TOFT

Goal. Normal Operations II. Demonstrate proficiency with FA-18 normal checklists and procedures including jettison procedures and instrument approach procedures.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Airways navigation
Holding entry
Non-precision approaches
Precision approaches
Jettison procedures

Practice

DD-175 preparation
Cockpit switchology and set up procedures
Start procedures
Departure procedures
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 1001

SFAM-1003 1.5 * B N* S 1 TOFT

Goal. Normal Operations III. Demonstrate proficiency with FA-18 normal operations while introducing night operations.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Night considerations
Night cockpit lighting
Night instrument procedures

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
FCLP pattern
Holding entry
Instrument approaches

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0026, 1002

SFAM-1004 1.5 * B, R, MR D S 1 TOFT

Goal. Start and Ground Emergencies. Demonstrate proficiency with FA-18 normal operations and instrument flight. Introduce start up and ground emergencies. Modified Refresh aircrew will also introduce ground and inflight engine and Airframe Mounted Accessory Drive (AMAD) emergency procedures.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Crossbleed start
Ground emergencies
Takeoff emergencies
Divert
Engine failure in the landing pattern

- (MR) Engine failure on takeoff
- (MR) Engine failure airborne
- (MR) Single engine flight characteristics
- (MR) Single engine wave off (MIL/MAX)
- (MR) Engine airborne restart
- (MR) Single engine approach

Practice

- Cockpit switchology and set up procedures
- Start procedures
- Departure procedures
- Airways navigation
- FCLP pattern
- Holding entry
- Instrument approaches

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0050, 1003
R: 0049, 0050, 0056-0058, 1001
MR: 0049, 0050, 0056-0058, 1001

SFAM-1005 1.5 * B, R D S 1 TOFT

Goal. Engine and AMAD Emergencies. Introduce ground and inflight engine and AMAD emergency procedures. Refresh aircrew will also introduce fuel system emergencies and malfunctions.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Introduce

- Engine failure on takeoff
- Engine failure airborne
- Single engine flight characteristics
- Single engine wave off (MIL/MAX)
- Engine airborne restart
- Single engine approach
- (R) Fuel system emergencies
- (R) Fuel system malfunctions
- (R) Bingo profile

Practice

- Cockpit switchology and set up procedures
- Start procedures
- Departure procedures
- Airways navigation
- FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0049, 1004
R: 1004

SFAM-1006 1.5 * B, MR D S 1 TOFT

Goal. Fuel System Emergencies. Introduce fuel system emergencies and malfunctions. Modified Refresh aircrew will also introduce electrical system, Environmental Control System (ECS), and bleed air system emergencies and malfunctions.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Fuel system emergencies
Fuel system malfunctions
Bingo profile
(MR) Cold weather procedures
(MR) Electrical system emergencies
(MR) Electrical system malfunctions
(MR) Standby instrument procedures
(MR) ECS system emergencies
(MR) ECS system malfunctions

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 1005
MR: 1004

SFAM-1007 1.5 * B, R D S 1 TOFT

Goal. Electrical Emergencies. Introduce electrical system emergencies and malfunctions. Refresh aircrew will also introduce ECS and bleed air system emergencies and malfunctions.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Cold weather procedures
Electrical system emergencies
Electrical system malfunctions
Standby instrument procedures
(R) ECS system emergencies
(R) ECS system malfunctions

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation

FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0013, 0014, 0051, 1006
R: 1005

SFAM-1008 1.5 * B D S 1 TOFT

Goal. ECS Emergencies. Introduce ECS and bleed air system emergencies and malfunctions.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

ECS system emergencies
ECS system malfunctions

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 1007

SFAM-1009 1.5 * B, R, MR D S 1 TOFT

Goal. FCS Emergencies / OCF. Introduce Flight Control System (FCS) emergencies and malfunctions. Introduce Out-of-Control Flight (OCF) procedures and recovery. Refresh and Modified Refresh aircrew will also introduce Hydraulic system emergencies and malfunctions. Modified Refresh aircrew will be evaluated for safe for flight.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

FCS system emergencies
FCS system malfunctions
Out of Control Flight / Spin recovery
Unusual attitude recovery
Controllability check
(R/MR) Hydraulic system emergencies
(R/MR) Hydraulic system malfunction

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation

FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0054, 0055, 1008
R: 1007
MR: 1006

SFAM-1010 1.5 * B D S 1 TOFT

Goal. Hydraulics / Complex Emergencies. Introduce hydraulic system emergencies and malfunctions.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Hydraulic system emergencies
Hydraulic system malfunctions

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 1009

SFAM-1011 1.5 * B, R D S 1 TOFT

Goal. Normal Operations IV / Safe For Flight. Demonstrate proficiency with normal operations and cockpit procedures during emergency scenarios, and evaluate RAC as safe for flight.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 1010
R: 1009

SFAM-1012 1.0 * B, R N* S 1 TOFT

NAVMC 3500.50E
27 Oct 20

Goal. RNAV Instrument Procedures. Introduce FA-18 Area Navigation (RNAV) system set up and approaches.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

RNAV system set up
RNAV approaches

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Holding entry
Instrument approaches

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FAM CI or TSNI

Prerequisites. B: 0057, 0059, 1003
R: 0057, 1001

FAM-1014 1.3 * B, R, MR, SS D A 1 FA-18D

Goal. Normal Operations I. Introduce FA-18 cockpit controls, engine start, takeoff, normal operations, course rules, RTB and landing procedures completing all appropriate checklists. Modified Refresh and Safe for Solo pilots will be evaluated as safe for solo (SFS).

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Preflight / cockpit set up procedures
Start procedures
Departure procedures
Aerobatics
Single engine procedures
VFR recovery
FCLP pattern
Roll & Go
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 0053, 1013
R: 0061- 0064, 1011
MR: 0061, 0063, 0064, 1009
SS: 0061, 0063, 0064, 1023

Range Requirements. MOA

FAM-1015 1.5 * B, R, MR, SS D A 1 FA-18D

Goal. Instrument Round Robin I. Introduce instrument flight procedures, airways navigation, and instrument approaches. Modified Refresh and Safe for Solo pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Airways navigation
Holding entry
Instrument approaches

Practice

DD-175 preparation
Preflight / cockpit set up procedures
Start procedures
Departure procedures
FCLP pattern
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1012, 1014
R: 1014
MR: 1014
SS: 1014

FAM-1016 1.5 * B, R, MR, SS D A 1 FA-18D

Goal. Instrument Round Robin II. Demonstrate proficiency with instrument flight procedures, airways navigation, and instrument approaches. Modified Refresh and Safe for Solo pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

DD-175 preparation
Preflight / cockpit set up procedures
Start procedures
Departure procedures
Airways navigation
Holding entry
Instrument approaches
FCLP pattern
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1015
R: 1015
MR: 1015
SS: 1015

FAM-1017 1.5 * B D A 1 FA-18D

Goal. Instrument Round Robin III. Demonstrate proficiency with instrument flight procedures, airways navigation, and instrument approaches.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

DD-175 preparation
Preflight / cockpit set up procedures
Start procedures
Departure procedures
Airways navigation
Holding entry
Instrument approaches
FCLP pattern
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1016

FAM-1018 1.3 * B, R, MR D A 1 FA-18D

Goal. Proficiency Check / SFS. Demonstrate proficiency with normal operations, local area, and day aerobatics, and evaluate RP as SFS. Modified Refresh pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Review

Preflight / cockpit set up procedures
Start procedures
Local area procedures
Departure procedures
Aerobatics
VFR Recovery
FCLP pattern
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1017
R: 1016
MR: 1016

Range Requirements. MOA

FAM-1019 1.5 * B, R, SS D A 1 FA-18A/C/D

Goal. Fam Solo. Demonstrate proficiency with normal operations, local area, and day aerobatics as a solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Preflight / cockpit set up procedures
Start procedures
Local area procedures
Departure procedures
Aerobatics
VFR Recovery
FCLP pattern
Shutdown procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1018
R: 1018
SS: 1016

Range Requirements. MOA

FAM-1020 1.5 * B, R, MR N* A 1 FA-18D

Goal. Night Fam / Instrument Progress Check. Introduce proficiency with night operations, airways navigation, and instrument approaches. Modified Refresh pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Night considerations
Night cockpit lighting
Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Holding entry
Instrument approaches
Night FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1016~(W), 1017~(P)
R: 1015~(W), 1019~(P)
MR: 1016~(W), 1018~(P)

FAM-1021 1.6 * B,MR D A 1 FA-18D

Goal. WSO Proficiency Check. Demonstrate proficiency with normal operations, local area, airways navigation and instrument approaches.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Instrument approaches

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1208
MR: 1101

SINST-1022 1.0 365 B, R, MR, SS (N*) S 1 TOFT

Goal. Instrument Evaluation. To evaluate the pilot's knowledge of and adherence to NATOPS instrument procedures.

General

The NATOPS instrument evaluation event shall consist of those items delineated in CNAF-M-3710 series, NAVAIR 00-80T-112 (NATOPS Instrument Flight Manual) and FAR/AIM. 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. Prior to the commencement of the NATOPS instrument evaluation event (SINST-1022), Instrument Ground School and the Instrument Examination (AFAM-0057 and 0058) shall be completed and graded, and annual instrument minimums shall be met in accordance with CNAF-M-3710 series. A designated FA-18 instrument check evaluator will observe and certify that the RP is instrument qualified per CNAF-M-3710 series.

NATOPS Instrument Training. All requirements delineated in the prerequisites below shall be completed prior to designation as NATOPS Instrument qualified.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Review

Take off procedures
Departure procedures
Airways navigation
Instrument approaches

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. Instrument Instructor

Prerequisites. B: 0058, 1019
R: 0057, 0058, 1020
MR: 0057, 0058, 1020
SS: 0057, 0058, 1019

SFAM-1023 1.5 * B, SS D S 1 TOFT

Goal. Emergency Procedures Review / Pre-NATOPS Check. Practice operations in order to prepare for conducting initial NATOPS check. Safe for Solo pilots will also be evaluated as safe for flight.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, USMC FA-18 ADMIN SOP, and local course rules.

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Unusual attitude recovery
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG. Executes flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules. Comply with local course rules. Adhere to USMC FA-18 ADMIN SOP.

Instructor. FAM CI or NI

Prerequisites. B: 1020
SS: 0049-0050, 0056-0058, 1001

SNTPS-1024 1.5 365 B, R, MR, SS D S 1 TOFT

Goal. NATOPS Evaluation / Oral Exam. 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. Basic, Refresh, and Modified Refresh aircrew require 10 flight hours prior to this event. Safe for Solo pilots require 5 flight hours prior to this event.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, USMC FA-18 ADMIN SOP, and local course rules.

Discuss

Briefing items IAW VMFAT-101 FSG

Review

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Unusually attitude recovery
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG. Execute flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules. Comply with local course rules. Adhere to USMC FA-18 ADMIN SOP.

Instructor. NI

Prerequisites. B: 1023

R: 1020
MR: 1020
SS: 1019

2.7.2 FORMATION (FRM)

2.7.2.1 Purpose. To provide an introduction to the FA-18 formation positions and procedures.

2.7.2.2 General. AWI stage simulators and combat systems introduction are conducted concurrently during this stage. Upon completion of this stage, RAC will be familiar with administrative and tactical section and division formation positions and procedures. The baseline instructor is a TSNI. Aircraft should be configured with operable VTR/CVRS and no ordnance during this stage to continue a focus on multiple landings on every flight.

2.7.2.3 Stage Overview. Aircrew shall complete all FRM academic codes prior to flights for this stage. In addition, RAC are expected to become familiar with USMC FA-18 Admin SOP and FA-18 ANTP requirements for formation flying.

2.7.2.4 Training Requirements. Additional requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, configuration, etc.) it shall be completed NLT the FRM-1103. When the requirement has been completed, log the appropriate FRS flight skill tracking code (RQD-6122 through 6126) in conjunction with the event flown.

FRM REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
SECTION APPROACH TO MISSED APPROACH AS WING (RQD-6122)	FRM-1101
OVERHEAD BREAK AS WING (RQD-6124)	FRM-1101
DIVISION OVERHEAD BREAK (RQD-6125)	FRM-1102
LEAD A SIMULATED NORDO WINGMAN APPROACH (RQD-6126)	FRM-1103
SECTION APPROACH TO TOUCH AND GO AS WING (RQD-6123)	FRM-1103

FRM-1101 1.6 * B,R,MR D A 1 FA-18A/C/D, 1 FA-18D

Goal. Day Section Formation. Introduce formation flight operations, and evaluate RP as SFS. Refresh and Modified Refresh pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- Running rendezvous
- VFR/IFR parade position
- Cruise position
- Spread Drill
- Break-up and rendezvous
- TACAN rendezvous
- Tac-Form maneuvering
- Section penetration as wing
- VFR break as wing

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 0102, 1019, 1205
R: 1019
MR: 1020

Range Requirements. MOA

FRM-1102 1.6 * B D A 3+ FA-18A/C/D

Goal. Day Division Formation. Practice formation flight operations.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Parade position in fingertip and echelon formation
Section cross under

Practice

Running rendezvous
VFR/IFR parade position
Cruise position
Break-up and rendezvous
TACAN rendezvous
VFR break as wing

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1101

Range Requirements. MOA

FRM-1103 1.6 * B D A 3+ FA-18A/C/D

Goal. Day Division Tactical Formation. Demonstrate proficiency in tactical formation flight operations.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Tac-Form maneuvering from Wall
Tac-Form maneuvering from Fluid-Four
Section penetration as lead

Practice

TACAN rendezvous
Section penetration as wing

Review

Running rendezvous
VFR/IFR parade position
Cruise position

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1102

Range Requirements. MOA

2.7.3 ALL WEATHER INTERCEPT (AWI)

2.7.3.1 Purpose. To provide an introduction to FA-18 all-weather intercept procedures.

2.7.3.2 General. RPs will practice flying in administrative and combat formations during this stage. Upon completion of this stage, RAC will be familiar with basic combat systems, radar mechanics, and use of the radar for formation joins, forward quarter intercepts, and stern conversions. The baseline instructor is an AWI CI or TSNI. Aircraft should be configured with operable VTR/CVRS, RADAR, CATM-9, ALR-67, and chaff/flare.

2.7.3.3 Stage Overview. Aircrew shall complete all AWI academic codes concurrently with the FRM stage, and prior to completion of this stage of training. Events shall be completed by RAC in the following table:

2.7.3.4 Training Requirements. Additional training requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, configuration, etc.) it shall be completed NLT AWI-1209. When the requirement has been completed, log the appropriate FRS flight skill tracking code (RQD-6127 or 6128) in conjunction with the event flown. The section radar trail departure shall be completed by a RP in a two-seat aircraft with an IP or IWSO in the rear seat.

AWI REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
SECTION RADAR TRAIL DEPARTURE (RQD-6128)	AWI-1207
SECTION GCA AS WING (RQD-6122)	AWI-1207
LEAD A SECTION GCA (RQD-6127)	AWI-1208

SAWI-1201 1.5 * B D S 1 TOFT

Goal. Combat Checklist and A/A Radar Mechanics I. Introduce combat systems checklists, cockpit displays and controls, radar usage and ACM modes.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- On-deck combat checklists
- On-deck communications check-in
- Radar air-to-air controls and displays
- Radar to visual join up via running rendezvous
- In-flight combat checklist
- FENCE checks
- Radar Air Combat Modes

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 0024

SAWI-1202 1.5 * B D S 1 TOFT

Goal. Combat Checklist and A/A Radar Mechanics II. Demonstrate proficiency combat system checklists and introduce basic radar usage and interpretation.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Radar use while conducting break-up and rendezvous
Radar mechanics for sanitization, meld, and sorting
Short Range Radar mechanics

Practice

On-deck combat checklists
On-deck communications check-in
Radar air-to-air controls and displays
Radar to visual join up via running rendezvous
In-flight combat checklist
FENCE checks

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 1201

SAWI-1203 1.5 * B D S 2 TOFT

Goal. Combat Checklist and A/A Radar Mechanics III. Demonstrate proficiency with combat system checklists, basic air-to-air radar mechanics and employment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Radar trail departure in IMC
Battle damage checks

Practice

On-deck combat checklists
On-deck communications check-in
Radar air-to-air controls and displays
In-flight combat checklist
FENCE checks
Radar use while conducting break-up and rendezvous
Radar mechanics for sanitization, meld, and sorting
Short Range Radar mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 1202

SAWI-1204 1.5 * B D S 1 TOFT

Goal. Stern Conversions I. Introduce stern conversion intercept geometry and communication.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Stern conversions

Practice

- On-deck combat checklists
- On-deck communications check-in
- Radar air-to-air controls and displays
- In-flight combat checklist
- FENCE checks
- Radar mechanics for sanitization, meld, and sorting
- Radar trail departure in IMC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 1203

SAWI-1205 1.5 * B, R D S 1 TOFT

Goal. Stern Conversions II / Forward Quarter intercept introduction. Demonstrate proficiency with stern conversion intercept geometry and communication, and introduce forward quarter intercepts.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Introduce

- Forward quarter intercept execution

Practice

- On-deck combat checklists
- On-deck communications check-in
- Radar air-to-air controls and displays
- In-flight combat checklist
- FENCE checks
- Radar mechanics for sanitization, meld, and sorting
- Stern conversion set up and execution
- Radar trail departure in IMC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 1204
R: 0202-0218, 1011

SAWI-1206 1.5 * B N* S 1 TOFT

Goal. Forward Quarter intercepts. Demonstrate proficiency with forward quarter intercepts and stern conversions at night.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Practice

- On-deck combat checklists
- On-deck communications check-in

Radar air-to-air controls and displays
In-flight combat checklist
FENCE checks
Radar mechanics for sanitization, meld, and sorting
Short Range Radar
Stern conversions

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AWI CI or TSNI

Prerequisites. B: 1101~(W), 1103~(P), 1205

AWI-1207 1.6 * B D A 1 FA-18A/C/D, 1 FA-18D

Goal. Forward Quarter Intercepts and Stern Conversions I. Introduce stern conversions and forward quarter intercepts utilizing basic air-to-air radar mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Combat system checklists
Tactical communication per TACSOP
Forward quarter intercepts
Stern conversions

Practice

Tactical formation maneuvering
Section penetration as wing

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1206

Ordinance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

AWI-1208 1.6 * B D A 2 FA-18A/C/D

Goal. Forward Quarter Intercepts and Stern Conversions II. Demonstrate proficiency with stern conversions and forward quarter intercepts utilizing basic air-to-air radar mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Combat system checklists
Tactical communication per TACSOP
Tactical formation maneuvering
Forward quarter intercepts
Stern conversions
Section penetration as lead

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Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1022, 1207

Ordnance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

AWI-1209 1.6 * B D A 2 FA-18A/C/D

Goal. Transition Phase Check. RP will demonstrate proficiency in normal operations and basic radar mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Combat system checklists
Tactical communication per TACSOP
Forward quarter intercepts
Stern conversions
Tactical formation maneuvering

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1024, 1208

Ordnance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

2.7.4 AIR-TO-SURFACE (AS)

2.7.4.1 Purpose. To introduce air-to-surface ordnance delivery and surface-to-air countertactics (SACT). Target acquisition, designation techniques, delivery modes, attack parameters, air-to-ground validation, and SACT should be emphasized throughout AS.

2.7.4.2 General. AS should run concurrent with the LAT stage. AS-1305, AS-1306, AS-1307, AS-1311, AS-1312 should be flown on a raked range with Weapon Impact Scoring Set (WISS). Dive delivery events when a CAT I/II RP is solo require a low safe aircraft. Upon completion of this stage, RAC will be able to attack targets with valid ordnance deliveries and react effectively to surface to air threats. The baseline instructor is an AS CI, PGM CI, or ASI. Aircraft should be configured with an operable VTR/CVRS, required ordnance, chaff/flare and a TGP.

2.7.4.3 Stage Overview. Aircrew shall complete all AS academic codes prior to completion of this stage of training.

SAS-1301 1.3 * B D S 1 TOFT

Goal. SMS Displays, Medium Angle Dive Deliveries. Conduct medium angle dive deliveries on a scored target using Auto designated mode from the circular bombing pattern, and SMS programming using air-to-surface switchology and displays.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

SMS indications and programming for GP low drag ordnance

Airborne weapons check procedures for GP ordnance
Range entry, target clearing, pattern entry procedures and communication
Medium angle dive bombing execution, sight picture, and corrections
Cockpit task management during dive deliveries to include scan, situational awareness, and proper
TCC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or ASI

Prerequisites. B: 0314

SAS-1302 1.3 * B,R,MR D S 1 TOFT

Goal. Medium Angle Dive Deliveries. Conduct medium angle dive deliveries on a scored target using Auto/CCIP mode from the circular bombing pattern. Refresh aircrew will also conduct strafe attacks. Modified refresh aircrew will also conduct strafe, LGB and IAM attacks.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Auto undesignated medium angle dive deliveries via HUD designation
CCIP medium angle dive deliveries
(R/MR) Low angle strafe attacks from overhead pattern and bunt entries
(MR) PGM attacks

Practice

SMS indications and programming for GP low drag ordnance
Airborne weapons check procedures for GP ordnance
Range entry, target clearing, pattern entry procedures and communication
Medium angle dive bombing execution, sight picture, and corrections
Cockpit task management during dive deliveries

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or ASI

Prerequisites. B: 1301

R: 0301-0310, 0318-0319

MR: 1101

SAS-1303 1.0 * B D S 1 TOFT

Goal. Low Angle Dive and Strafe. Conduct low angle dive using Auto mode and strafe deliveries on a scored target from the circular bombing pattern.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

SMS indications and programming for GP ordnance and gun/strafe
Low angle low drag (LALD) bombing execution, sight picture, and corrections
Auto designated LALD dive deliveries
Roll-in strafe pattern

Practice

Prerequisites. B: 1304
R: 1302
MR: 1302

Ordnance. 12 Mk 76, 20 Chaff, 40 Flare

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

AS-1306 1.3 * B D A 2+ FA-18A/C/D

Goal. Medium Angle Dive Deliveries. Perform Auto designated and undesignated deliveries medium angle dive deliveries.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Auto undesignated medium angle dive deliveries via HUD designation

Simulated strafe deliveries if time/fuel permit

Practice

Auto designated medium angle dive deliveries

A/S checklist

Range entry, target clearing, pattern entry procedures and communication

Medium angle dive bombing execution

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1305

Ordnance. 12 Mk 76, 20 Chaff, 40 Flare

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

External Syllabus Support. Low Safe

AS-1307 1.3 * B D A 2+ FA-18A/C/D

Goal. Low Angle Dive Deliveries. Perform low angle bomb and strafe deliveries on a raked range.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

SMS indications and programming for gun/strafe

Auto low angle dive deliveries

Strafe deliveries

Practice

A/S checklist

Range entry, target clearing, pattern entry procedures and communication

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

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Prerequisites. B: 0316, 1305~(W), 1306~(P)

Ordnance. 12 Mk 76, 250 20-mm, 20 Chaff, 40 Flare

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

External Syllabus Support. Low Safe

AS-1308 1.3 * B D A 2+ FA-18A/C/D

Goal. Live Ordnance/Strafe. Perform medium angle dive deliveries with high explosive ordnance and low angle strafe.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

SMS indications and programming for Mk-80 series ordnance
Auto dive deliveries with Mk-80 series ordnance

Practice

Strafe deliveries
A/S checklist
Range entry, target clearing, pattern entry procedures and communication
Medium angle dive bombing execution

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1307

Ordnance. 2+ Mk 82/83, 250 20-mm, 20 Chaff, 40 Flare

Range Requirements. RSTD, HE, STRAFE

External Syllabus Support. Low Safe

SAS-1309 1.0 * B,R D S 1 TOFT

Goal. Low Angle Pop Attacks, Bunt Strafe. Practice pop attacks using system and visual designations to computed delivery on a raked range. Introduce bunt strafe.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Low altitude ingress to 30/30 pop attack
Low altitude ingress to Marine Method pop attack
Bunt strafe delivery

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or ASI

Prerequisites. B: 0317, 1304, 1403
R: 1302

SAS-1310 1.5 * B D S 2 TOFT

Goal. Section Pop Attacks. Perform section low altitude pop attacks to low angle dive deliveries on a raked range.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section LALD pop attacks
Low altitude shift attacks
Mutual support
Expendables programming and usage

Practice

Low altitude ingress to 30/30 pop attack
Low altitude ingress to Marine Method pop attack
Bunt strafe delivery

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or ASI

Prerequisites. B: 1309

AS-1311 1.3 * B D A 1 FA-18D

Goal. Low Angle Pop Attacks, Bunt Strafe / SFS. Perform pop attacks using system and visual designations to computed delivery on a raked range. Introduce bunt strafe and evaluate RP as SFS.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Low altitude ingress to 30/30 pop attack
Low altitude ingress to Marine Method pop attack
Bunt strafe deliveries

Practice

A/S checklist

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1310

Ordnance. 6 Mk 76, 250 20-mm, 20 Chaff, 40 Flare

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

AS-1312 1.3 * B,R D A 2 FA-18A/C/D

Goal. Section Pop Attacks. Perform section low altitude pop attacks to low angle dive deliveries on a raked range. Refresh aircrew may execute this event with simulated ordnance.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section low drag pop attacks
Shift attacks
Expendables usage

Practice

A/S checklist
Bunt strafe deliveries

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1310~(W), 1311~(P)
R: 1305, 1309

Ordnance. 6 Mk 76, 250 20-mm, 20 Chaff, 40 Flare

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

External Syllabus Support. Low Safe

SAS-1313 1.5 * B,R D S 1 TOFT

Goal. Sensor Acquisition and Deliveries. Perform sensor to visual deliveries. Perform bunt strafe from medium altitude utilizing TGP acquisition. Refresh aircrew will also conduct single-ship SACT during this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

RADAR OAP to TGP acquisition
TGP acquisition of tactical targets
Sensor to medium angle dive deliveries
Bunt strafe utilizing TGP acquisition
TGP BDA procedures
(R) Preemptive and reactive maneuvers to defeat the simulated IADS (SACT)

Practice

A/S checklist

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. PGM CI or ASI

Prerequisites. B: 0321, 0324, 1310
R: 1309

SAS-1314 1.5 * B,R D S 1 TOFT

Goal. LGB and LMAV. Perform level LGB deliveries and Laser Maverick (LMAV) deliveries on fixed and moving targets.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

LGB and LMAV attacks against fixed and moving targets
J-Lase communications
Laser spot tracking
TGP auto track / moving target track (MTT)

Practice

TGP acquisition of tactical targets
TGP BDA procedures
A/S checklist
Medium altitude SACT maneuvers

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. PGM CI or ASI

Prerequisites. B: 0328, 1313
R: 1313

SAS-1315 1.5 * B,R D S 1 TOFT

Goal. JDAM and LJDAM. Introduce the displays, programming, and deliveries of inertial aided munitions (IAM).

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Target coordinate generation
JDAM/LJDAM programming pre-planned (PP) and target of opportunity (TOO) modes
PP and TOO JDAM deliveries
Quantity JDAM employment
LJDAM Auto (MOVG/FIXD), TGT MOVG, and TGT FIXD employments
IAM validation

Practice

Target point usage
A/S checklist
BDA

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. PGM CI or ASI

Prerequisites. B: 0331, 1313
R: 1314

AS-1316 1.3 * B,R D A 1 FA-18D

Goal. Sensor Attacks/LGB. Employ LGB weapons against targets using TGP acquisition. Refresh aircrew will also conduct simulated JDAM attacks.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

LGB attacks against fixed targets utilizing continuous, delay, and trig lasing
J-Lase communications

BDA
(R) JDAM PP/TOO employment

Practice

A/S checklist
(R) IAM Validation

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1314
R: 1314, 1315

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

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

AS-1317 1.3 * B D A 1 FA-18D

Goal. JDAM / SACT. Employ JDAM weapons against targets. Execute SACT maneuvers.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

A/S timeline procedures

Sensor acquisition and designation of DPI
JDAM PP and TOO employment
SACT maneuvers

Practice

A/S checklist
IAM Validation

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1315

Ordnance. Sim JDAM, TCTS Pod, 20 Chaff, 40 Flare

Range Requirements. RSTD, TGT, LSR, EW, EXP

AS-1318 1.5 * B D A 1 FA-18D

Goal. LJDAM Employment. Employ LJDAM weapons against targets using TGP target acquisition techniques.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

LJDAM programming PP and TOO modes
Obtain / maintain PID techniques using TGP
LJDAM Auto (MOVG/FIXD), TGT MOVG, and TGT FIXD employments

Practice

A/S checklist
RADAR to TGP handoff
Sensor acquisition and designation of DPI
IAM Validation

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1317

Ordnance. Sim LJDAM/DMLGB, 20 Chaff, 40 Flare

Range Requirements. RSTD, TGT, LSR, EXP

AS-1319 1.3 * B,R D A 2 FA-18A/C/D

Goal. PGM Strike / SACT. Strike a target using JDAM and/or LGB as a section, executing preemptive and reactive maneuvers to defeat simulated IADS.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Strike route considerations (Control points, DP/IP, timing)
Section preemptive and reactive SACT maneuvers

Practice

A/S checklist
PGM employment
IAM Validation

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. ASI

Prerequisites. B: 1316, 1317
R: 1316

Ordnance. 2+ LGTR or Sim JDAM, TCTS pod, 20 Chaff, 40 Flare

Range Requirements. RSTD, TGT, LSR, EW, EXP

2.7.5 CLOSE AIR SUPPORT (CAS)

2.7.5.1 Purpose. Introduce aircrew to FA-18 CAS employment. Knowledge of air-to-ground systems and weapons should be emphasized throughout CAS. Joint Publication 3-09.3 procedures, standardized communications, system management, mutual support, and weapons employment will be stressed on every mission.

2.7.5.2 General. Upon completion of this stage, RAC will be able to execute basic CAS procedures. Baseline instructor is a CAS CI or CASI. Aircraft should be configured with an operable VTR/CVRS, DCS, Link 16, chaff/flare, and a TGP. The FAC(A) aircraft acts as a low safe when CAT I/II RPs are solo.

2.7.5.3 Stage Overview. Aircrew shall complete all CAS academic codes prior to completion of this stage of training.

SCAS-1340 1.5 * B D S 1 TOFT

Goal. CAS Introduction. Perform Type 1 CAS in a low threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Bomb on target (BOT)
Standardized CAS comm

Practice

Delivery mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CAS CI or CASI

Prerequisites. B: 0340

SCAS-1341 1.5 * B,R D S 1 TOFT

Goal. Medium/Low Threat CAS. Perform Type 1 CAS in a medium to low threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Attacks under Type 1 terminal attack control (low-drag, medium altitude dive delivery)
Attacks utilizing Overhead Type 1 terminal attack control (low-drag, med altitude dive delivery)

Practice

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
BOT
Standardized CAS comm

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CAS CI or CASI

Prerequisites. B: 1340

R: 0341, 1312

SCAS-1342 1.5 * B D S 1 TOFT

Goal. High Threat CAS. Perform Type 1 CAS in a high threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Attacks under Type 1 terminal attack control (15 degree low-drag, pop delivery)

Practice

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
BOT
Standardized CAS comm

Review

Pop attacks

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CAS CI or CASI

Prerequisites. B: 1341

CAS-1343 1.3 * B D A 1 FA-18A/C/D, 1+ FA-18D

Goal. CAS Introduction / SFS. Perform Type 1 CAS in a medium threat environment. Evaluate RP as SFS.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Attacks under Type 1 terminal attack control (low-drag, medium altitude dive delivery)
CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Bomb on target (BOT)
Standardized CAS comm Practice

Practice

Delivery mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CASI

Prerequisites. B: 0341, 1341

Ordinance. 4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

External Syllabus Support. FAC(A) or JTAC

CAS-1344 1.3 * B,R D A 2+ FA-18A/C/D

Goal. Medium/Low Threat CAS. Perform Type 1 CAS in a medium to low threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Attacks utilizing overhead Type 1 terminal attack control (low-drag, med altitude dive delivery)

Practice

Attacks under Type 1 terminal attack control (low-drag, med altitude dive delivery)
CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Bomb on target (BOT)
Standardized CAS comm
Delivery mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CASI

Prerequisites. B: 1343
R: 1341

Ordnance. 4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

External Syllabus Support. FAC(A) or JTAC

CAS-1345 1.3 * B,R D A 2+ FA-18A/C/D

Goal. High Threat CAS. Perform Type 1 CAS in a high threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Attacks under Type 1 terminal attack control (15 degree low-drag, pop delivery)

Practice

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
BOT
Pop attacks / delivery mechanics
Standardized CAS comm

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG

Instructor. CASI

Prerequisites. B: 1342, 1344, 1408
R: 1344

Ordnance. 4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

External Syllabus Support. FAC(A) or JTAC

CAS-1346 1.3 * B,R D A 2 FA-18A/C/D

Goal. Section CAS. Perform Type 1 CAS in a medium threat environment. Refresh aircrew also execute simulated Type 2 PGM attacks.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section holding techniques
Mutual support
Section interval

Practice

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
BOT
Standardized CAS comm
Delivery mechanics
(R) PGM employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG

Instructor. CASI

Prerequisites. B: 1345
R: 0343, 1316, 1345

Ordnance. 4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

External Syllabus Support. FAC(A) or JTAC

SCAS-1347 1.5 * B D S 1 TOFT

Goal. Urban CAS I (JDAM/LMAV). Perform Type 2 CAS in an urban environment. Conduct BOT/BOC CAS utilizing JDAM and LMAV.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Keyhole CAS procedures
Target PID/correlation
ROE/CDE considerations
Target area geometry
TGP employment
Bomb on coordinate (BOC)

Practice

CAS procedures with Type 2 terminal attack control
CAS page utilization
BOT
Standardized CAS comm
PGM employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG

Instructor. CAS CI or CASI

Prerequisites. B: 0343, 1345

SCAS-1348 1.5 * B,R D S 1 TOFT

Goal. Urban CAS II (LGB/LJDAM). Perform Type 2 CAS in an urban environment. Conduct BOT/BOC CAS utilizing LGB and LJDAM.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Keyhole CAS procedures
Target PID/correlation
ROE/CDE considerations
Target area geometry
TGP employment
BOT/BOC
CAS procedures with Type 2 terminal attack control
CAS page utilization
Standardized CAS comm
PGM employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CAS CI or CASI

Prerequisites. B: 1347
R: 0343, 1314, 1315, 1341

CAS-1349 1.3 * B,R D A 1 FA-18D

Goal. Urban CAS. Perform Type 2 CAS in an urban environment. Conduct BOT/BOC CAS utilizing LGB and LJDAM.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Keyhole CAS procedures
Target PID/correlation
ROE/CDE considerations
Target area geometry
TGP employment
BOT/BOC
CAS procedures with Type 2 terminal attack control

Practice

CAS page utilization
Standardized CAS comm
PGM employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CASI

Prerequisites. B: 1319, 1348
R: 1345, 1348

Ordinance. Sim LJDAM, Sim LGB

Range Requirements. URBN TRG, JCAS

External Syllabus Support. FAC(A) or JTAC

2.7.6 STIKE COORDINATION AND RECONNAISSANCE (SCAR)

2.7.6.1 Purpose. Introduce aircrew to FA-18 execution of Armed Reconnaissance during day conditions in a permissive or contested threat environment.

2.7.6.2 General. Upon completion of this stage, RAC will be able to conduct basic AR procedures. Baseline instructor is a CAS CI or CASI. Aircraft should be configured with an operable VTR/CVRS, DCS, Link 16, chaff/flare, and a TGP. The flight lead may act as a low safe when CAT I/II RPs are solo.

2.7.6.3 Stage Overview. Aircrew shall complete all SCAR academic codes prior to completion of this stage of training.

SAR-1350 1.5 * B D S 1+ TOFT

Goal. Armed Reconnaissance. Conduct AR with PGM.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Find, Fix, Track, Target, Engage, and Assess (F2T2EA) targets of opportunity
Target PID/correlation
ROE/CDE considerations
Target precedence / Reactive weaponeering
Search pattern
Mutual support considerations
Target area tactics
Time to kill
Information flow through C3 systems
Intra-section target communication

Practice

Threat countertactics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CAS CI or CASI

Prerequisites. B: 0351

AR-1351 1.3 * B,R D A 2+ FA-18A/C/D

Goal. Introduction to Armed Reconnaissance. Conduct AR with GP and/or simulated PGM. Refresh aircrew may execute this event with simulated ordnance only.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Find, Fix, Track, Target, Engage, and Assess (F2T2EA) targets of opportunity
Target PID/correlation
ROE/CDE considerations
Target precedence / Reactive weaponeering

Search pattern
Mutual support considerations
Target area tactics
Time to kill
Information flow through C3 systems
Intra-section target communication

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. CASI

Prerequisites. B: 1350
R: 1319

Ordnance. 4 BDU-45 or 6 Mk 76, 250 20-mm, 20 Chaff, 40 Flare

Range Requirements. RSTD, TGT, EXP

2.7.7 FORWARD AIR CONTROLLER (AIRBORNE) (FAC(A))

2.7.7.1 Purpose. Introduce RWSOs to FAC(A) procedures utilizing Type 1 control.

2.7.7.2 General. Prior to beginning FAC(A), RWSOs shall be complete with all CAS events. This stage consists of four academic classes, a demo brief and briefing lab, instructed by a FAC(A) IWSO. SFAC(A)-1360 and 1361 introduce the RWSO to Type I control from both IP to target and from the overhead. Events are briefed by the RWSO with IP assisted debriefs. A current FAC(A) pilot is the instructor for the flights with a CAS IP acting as the wingman and CAS aircraft. Upon completion of this stage, RWSO will be familiar with basic FAC(A) procedures for Type 1 control of fixed wing aircraft. Aircraft should be configured with an operable VTR/CVRS, DCS, Link 16, chaff/flare, and a TGP.

2.7.7.3 Stage Overview. RWSOs shall complete all FAC(A) academic codes prior to completion of this stage of training.

SFAC(A)-1360 1.5 * B D S 2 TOFT

Goal. FAC(A) Medium Threat. Introduce FAC(A) Type 1 BOT control procedures with GP ordnance in a medium threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Control Type 1 attacks
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FFAC(A)I

Prerequisites. B: 0365

SFAC(A)-1361 1.5 * B D S 2 TOFT

Goal. FAC(A) Low Threat. Introduce FAC(A) Type 1 BOT control procedures with GP ordnance in a medium to low threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Talk-ons

Practice

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Control Type 1 attacks
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FFAC(A)I

Prerequisites. B: 1360

FAC(A)-1362 1.3 * B D A 1 FA-18D, 1 FA-18A/C/D

Goal. FAC(A) Medium Threat. Introduce FAC(A) Type 1 BOT control procedures with GP ordnance in a medium threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Control Type 1 attacks
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FFAC(A)I

Prerequisites. B: 1361

Ordnance. 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

FAC(A)-1363 1.3 * B D A 1 FA-18D, 1 FA-18A/C/D

Goal. FAC(A) Low Threat Introduce FAC(A) Type 1 BOT control procedures with GP ordnance in a medium to low threat environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Talk-ons

Practice

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Control Type 1 attacks
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FFAC(A)I

Prerequisites. B: 1362

Ordnance. 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

2.7.8 LOW ALTITUDE TACTICS (LAT)

2.7.8.1 Purpose. To introduce aircrew to FA-18 low altitude tactics and threat reactions.

2.7.8.2 General. Emphasize LAT procedures, communications, and maneuver techniques per the LAT Program Guide. Upon completion of the LAT stage, aircrew should be able to perform low altitude navigation, low altitude tactical maneuvers, and execute defensive maneuvers against surface-to-air threats. All events shall be flown on an MTR or approved LAT range. The baseline instructor is a LAT CI or FLATI. Currency and altitude restrictions as stated in the T&R Program Manual apply as well as the VMFAT-101 Local Addendum to the USMC FA-18 SOP. Aircraft should be configured with an operable VTR/CVRS.

2.7.8.3 Stage Overview. Aircrew shall complete all LAT academic codes prior to moving into simulator training.

SLAT-1401 1.5 * B D S 1 TOFT

Goal. Low Level Navigation. Plan and fly a VFR low-level route.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Plan a visual low level navigation mission to include fuel and timing considerations
Program navigation data, including waypoints, sequence information, and time-on-target (TOT)
Air-to-ground radar procedures
Visual low level navigation
Cockpit tasking
Standardized communication

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or TSNI

Prerequisites. B: 0406, 1307

LAT-1402 1.5 * B,R D A 1 FA-18D

Goal. Low Level Navigation. Demonstrate proficiency with FA-18 low level navigation and time control.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Plan a visual low level navigation route

Program navigation data, including waypoints, sequence information, and time-on-target (TOT)

Visual low level navigation

Cockpit tasking

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1401

R: 1015~(W), 1016~(P)

Range Requirements. MTR

SLAT-1403 1.3 * B D S 1 TOFT

Goal. LAT Introduction. Introduce LAT maneuvers.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Demonstrate knowledge of LAT training rules

50% rule

10° rule

Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks

Mission cross-check times

Emergency dive recovery maneuver

Cockpit tasking

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. LAT CI or FLATI

Prerequisites. B: 0410, 1401

SLAT-1404 1.3 * B D S 1 TOFT

Goal. LAT / SACT. Practice LAT and Introduce SACT maneuvers in the medium altitude environment.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- Guns jink
- Medium altitude 2D/3D weave, short range missile defense, and last ditch missile defense

Practice

- Demonstrate knowledge of LAT training rules
- 50% rule
- 10° rule
- Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks
- Mission cross-check times
- Emergency dive recovery maneuver
- Cockpit tasking

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. LAT CI or FLATI

Prerequisites. B: 1403

SLAT-1405 1.5 * B D S 2 TOFT

Goal. Section LAT / SACT. Introduce low altitude formation and section low altitude tactics.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Introduce

- Low altitude section maneuvering

Practice

- Demonstrate knowledge of LAT training rules
- 50% rule
- 10° rule
- Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks
- Medium altitude SACT maneuvers
- Mission cross-check times
- Emergency dive recovery maneuver
- Cockpit tasking

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. LAT CI or FLATI

Prerequisites. B: 1403~(W), 1404~(P)

LAT-1406 1.3 * B D A 1 FA-18D

Goal. LAT Intro / SFS. Introduce FA-18 LAT and SACT. Evaluate the RP as SFS.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Introduce

- Demonstrate knowledge of LAT training rules, procedures, and considerations
- LAT checks
- Low Altitude Warning System (LAWS) to maintain altitude

Radar altimeter management
50% rule
10° rule
Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks
Guns jink

Practice

Cockpit tasking

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FLATI

Prerequisites. B: 1402, 1404

Ordnance. None

Range Requirements. LAT

External Syllabus Support. None

LAT-1407 1.3 * B D A 2 FA-18C/D

Goal. LAT. Introduce FA-18 LAT and SACT solo with a chase aircraft.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section maneuvering

Practice

LAT checks
Utilizing LAWS to maintain altitude
Radar altimeter management
Cockpit tasking
50% rule
10° rule
Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks
Guns jink

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FLATI

Prerequisites. B: 1405, 1406

Ordnance. None

Range Requirements. LAT

LAT-1408 1.3 * B D A 2 FA-18C/D

Goal. LAT Section Maneuvering. Practice FA-18 LAT, section maneuvering, and SACT.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

- LAT checks
- Utilizing LAWS to maintain altitude
- Radar altimeter management
- Section maneuvering
- Cockpit tasking
- 50% rule
- 10° rule
- Level turns, vertical jinks, turning oblique, straight ahead oblique and reverse oblique jinks
- Guns jink

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. FLATI

Prerequisites. B: 1405~(W), 1407~(P)

Range Requirements. LAT

2.7.9 NIGHT/NIGHT SYSTEMS FAMILIARIZATION (N/NSF)

2.7.9.1 Purpose. To develop proficiency in FA-18 night flying and to introduce use of Night Vision Devices (NVD).

2.7.9.2 General. N/NSF may be conducted after the completion of the A/G phase, A/A phase, or both. Oversight is required throughout this stage to develop fundamental NVD skills. Currency and altitude restrictions are per the FA-18 Admin SOP, VMFAT-101 Local Addendum to the USMC F/A-18 SOP, and Night Systems Training Rules. NSF-1507 will be conducted with simulated ordnance only. All NSF events will be led by a NSFI with any TSNI instructing from the rear seat of the RP aircraft. Upon completion of this stage, RAC will be familiar with night flying procedures and considerations, and able to utilize NVDs. Aircraft should be configured with an operable VTR/CVRS, CATM-9, TCTS pod, and chaff/flare. Aircraft shall be configured with NVG compatible lighting for NSF events.

2.7.9.3 Stage Overview. Aircrew shall complete all N/NSF academic codes prior to completion of this stage of training.

2.7.9.4 Training Requirements. Additional requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, configuration, etc.) it shall be completed prior to the NSF-1507. When the requirement has been completed, log the appropriate FRS flight skill tracking code (RQD-6128) in conjunction with the event flown.

N/NSF REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
SECTION RADAR TRAIL DEPARTURE (RQD-6128)	FRM-1503
SECTION APPROACH TO MISSED APPROACH AS WING	FRM-1503

SFAM-1501 1.0 * B N* S 1 TOFT

Goal. A/G / FTN Stage Emergency Procedures Review. Practice emergency procedures at night. Conduct should include scenarios that include damage from the A/G mission set or highlight the complexity of night emergencies. This event may be conducted at a detachment site, if applicable.

Requirements: Demonstrate comprehensive knowledge and understanding of NATOPS, USMC FA-18 ADMIN SOP, and course rules.

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Cockpit switchology and set up procedures

Start procedures

- Departure procedures
- Airways navigation
- Emergency Procedures
- Unusual attitude recovery
- FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG. Executes flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules. Comply with course rules. Adhere to USMC FA-18 ADMIN SOP.

Instructor. FAM CI or TSNI

Prerequisites. B: 0501

FAM-1502 1.5 * B N* A 1 FA-18D

Goal. Night Instrument Round Robin. Develop proficiency with night operations, airways navigation, and instrument approaches.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Practice

- Night considerations
- Night cockpit lighting
- Cockpit switchology and set up procedures
- Departure procedures
- Airways navigation
- Holding entry
- Instrument approaches
- Night FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1501

FRM-1503 1.6 * B N* A 1 FA-18A/C/D, 1 FA-18D

Goal. Night Section Formation. Introduce night formation flight operations.

Requirements

Discuss

- Briefing items IAW VMFAT-101 FSG

Introduce

- Radar trail departure and join
- VFR/IFR parade position
- Spread Drill
- Break-up and rendezvous
- TACAN rendezvous
- Tac-Form maneuvering
- Section penetration and instrument approach as wing
- VFR break as wing
- Landing pattern at night

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

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Instructor. TSNI

Prerequisites. B: 1502

Range Requirements. MOA

AWI-1504 1.6 * B N* A 1 FA-18A/C/D, 1 FA-18D

Goal. Night FQ Intercept and Stern Conversion. Introduce forward quarter intercepts and night stern conversions utilizing basic air-to-air radar mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Forward quarter intercepts at night
Stern conversions at night

Practice

Combat system checklists
Tactical communication per TACSOP
Tac-Form maneuvering
Section penetration as wing

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. TSNI

Prerequisites. B: 1503

Ordnance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

SNSF-1505 1.0 * B NS S 1 TOFT

Goal. NVG Familiarization. Introduce donning and removing NVDs, formation flight, radar intercepts, and dive deliveries using NVDs.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Donning and removing NVDs
Formation flight with the aid of NVDs
Radar intercepts with the aid of NVDs
Medium altitude dive deliveries with the aid of NVDs
Low angle bunt strafe with the aid of NVDs

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. NSFI

Prerequisites. B: 0503, 1501

NSF-1506 1.5 * B,R NS A 1 FA-18A/C/D, 1 FA-18D

Goal. NVG Familiarization, All Weather Intercept. Introduce formation flying and radar intercept procedures with the aid of NVDs.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Donning and removing NVDs

CV/Running rendezvous with the aid of NVDs

Goggle formation positions

Break-up and rendezvous with the aid of NVDs

Forward quarter intercepts and stern conversions with the aid of NVDs

Practice

Instrument approach as wing

Landing pattern at night

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. NSFI

Prerequisites. B: 1504, 1505

R: 0502, 1020, 1101

Ordinance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

NSF-1507 1.3 * B,R NS A 1 FA-18A/C/D, 1+ FA-18D

Goal. NVG Dive Deliveries. Introduce medium altitude dive deliveries with the aid of NVDs. Refresh pilots will fly this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Medium altitude dive deliveries with the aid of NVDs

Practice

CV/Running rendezvous with the aid of NVDs

Goggle formation positions

Air to ground timeline and checklist

Landing pattern at night

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. NSFI

Prerequisites. B: 1506

R: 1305, 1506

Ordinance. Simulated Mk-82

Range Requirements. RSTD, TGT

2.7.10 AIR-TO-AIR REFUELING (AAR)

2.7.10.1 Purpose. To introduce day and night tactical tanker AAR operations.

2.7.10.2. General. Operations shall be conducted in accordance with the Air Refueling Standards Related Document

(ATP 3.3.4.2) and the VMFAT-101 Local Addendum to the USMC F/A-18 SOP. AAR shall not be conducted in conjunction with other T&R sorties. Night AAR shall be conducted unaided, and flight requirements shall not commence until the end of evening nautical twilight (EENT). Upon completion of this stage, RPs will be familiar with day and night tactical tanking procedures. The baseline instructor is an AARI and will fly in the lead aircraft. The instructor shall act as a safety observer while a RP conducts AAR. Aircraft should be configured with operable VTR/CVRS.

2.7.10.3 Stage Overview. Academics for this stage shall be conducted prior to the flight events.

AAR-1601 **1.0 ***** **B** **D** **A** **2 FA-18A/C/D****

Goal. Aerial Refueling. Introduce day aerial refueling on a tactical tanker.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- Tanker rendezvous
- Observation position
- Astern position
- Refueling procedures
- Tanker departure

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AARI

Prerequisites. B: 0601

Range Requirements. AAR

External Syllabus Support. One compatible tactical tanker.

AAR-1602 **1.0 ***** **B** **N*** **A** **2 FA-18A/C/D****

Goal. Night Aerial Refueling. Introduce night unaided aerial refueling on a tactical tanker.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- Tanker rendezvous
- Observation position
- Astern position
- Refueling procedures
- Tanker departure

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AARI

Prerequisites. B: 1504, 1601

Range Requirements. AAR

External Syllabus Support. One compatible tactical tanker.

2.7.11 AIR-TO-AIR (AA)

2.7.11.1 Purpose. To introduce aircrew to employing the FA-18 in the air-to-air arena. Knowledge of air-to-air aircraft systems and weapons should be emphasized throughout AA. Timeline awareness, mutual support, sensor usage, standardized communications, weapons employment, and defensive reactions will be stressed on every event. AIC and Link 16 should be used to the maximum extent possible. A TCTS range should be used to the maximum extent possible.

2.7.11.2 General. Baseline threat for the AA stage will be a modern 4th generation platform capable of employing modern semi-active missiles. Upon completion of the AA stage, aircrew should be able to perform Launch and Decide (L&D) intercepts. The baseline instructor is an AA CI or an AAI. Aircraft should be configured with an operable RADAR, VTR/CVRS, ALR-67, CATM-9, TCTS pod, and chaff/flare.

2.7.11.3 Stage Overview. Aircrew shall complete all AA academic codes prior to completion of this stage of training.

SAA-1701 1.3 * B D S 1 TOFT

Goal. 1v1 L&D Intercepts I. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using high risk and IFFR focusing on intercept fundamentals.

Requirements

- Discuss
 - Briefing items IAW VMFAT-101 FSG
- Introduce
 - Meld mechanics
 - 2D/3D geometry
 - RWR awareness
 - Notch mechanics
 - Merge mechanics
 - VID mechanics
 - Within visual range (WVR) weapons employment
 - Merge cleanup
 - Short range radar (SRR)

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 0712

SAA-1702 1.3 * B,R D S 1 TOFT

Goal. 1v2 L&D Intercepts II. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using high risk and IFFR focusing on intercept fundamentals.

Requirements

- Discuss
 - Briefing items IAW VMFAT-101 FSG
- Introduce
 - Sort mechanics
 - VID sort
 - Beyond visual range (BVR) weapons employment
- Practice

Meld mechanics
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
VID mechanics
WVR weapons employment
Merge cleanup
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1701
R: 0701, 0711, 0712

SAA-1703 1.3 * B,MR D S 1 TOFT

Goal. 1v2 L&D Intercepts III. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using high risk and IFFR focusing on intercept fundamentals.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Loft mechanics
Notch-to-the-merge mechanics

Practice

Meld mechanics
2D/3D geometry
Weapons employment
RWR awareness
Notch mechanics
Merge mechanics
Merge cleanup
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1702
MR: 1020, 0711, 0712

SAA-1704 1.3 * B,R D S 2 TOFT

Goal. 2v2 L&D Intercepts I. Conduct section intercepts against a known number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on intercept fundamentals as a section.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Mutual support
Deconfliction standards
Section bracket

Practice

Meld mechanics
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
VID mechanics
VID sort
Weapons employment
Merge cleanup
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1703
R: 1702

SAA-1705 1.3 * B D S 2 TOFT

Goal. 2v2 L&D Intercepts II. Conduct section intercepts against a known number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on intercept fundamentals as a section.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section loft mechanics

Practice

Mutual support
Meld mechanics
Weapons employment
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
VID mechanics
Merge cleanup
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1704

AA-1706 1.4 * B,MR D A 1 FA-18A/C/D, 1 FA-18D

Goal. 1v1 L&D Intercepts. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using high risk and IFFR focusing on intercept fundamentals. Modified Refresh pilots will conduct this flight solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Meld mechanics
Loft mechanics
Weapons employment
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
Merge cleanup
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1705
MR: 1703

Ordinance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

AA-1707 1.4 * B,R D A 1 FA-18A/C/D, 1 FA-18D vs. 1+(Diss) Adv

Goal. 2vX L&D Intercepts I / SFS. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on intercept fundamentals as a section and evaluate RP as SFS.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Mutual support
Deconfliction standards
(R) Loft Mechanics
VID mechanics
VID sort

Practice

Meld mechanics
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
Merge cleanup
Weapons employment
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1706

R: 1704

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, One or more (dissimilar) adversaries

AA-1708 1.4 * B,R D A 2 FA-18A/C/D vs. 1+(Diss) Adv

Goal. 2vX L&D Intercepts II. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on intercept fundamentals as a section. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Section loft mechanics

Practice

Mutual support
Meld mechanics
2D/3D geometry
RWR awareness
Notch mechanics
Merge mechanics
VID Mechanics
VID Sort
Merge cleanup
Weapons employment
SRR

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1707

R: 1707

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, One or more (dissimilar) adversaries

SAA-1709 1.3 * B D S 1 TOFT

Goal. 1v2 Maneuvering Targets. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using high risk and IFFR focusing on maneuvering target mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Maneuvering target mechanics

Practice

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Radar mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 0713, 1705

SAA-1710 1.3 * B D S 2 TOFT

Goal. 2v2 Maneuvering Targets. Conduct section intercepts against a known number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on maneuvering target mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Maneuvering target mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1709

AA-1711 1.3 * B D A 2 FA-18A/C/D vs. 1+ (Diss) Adv

Goal. 2vX Maneuvering Targets I. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on maneuvering target mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Maneuvering target mechanics

Practice

Mutual support
Radar mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1708, 1710

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, One or more (dissimilar) adversaries

AA-1712 1.3 * B D A 2 FA-18A/C/D vs. 1+ (Diss) Adv

Goal. 2vX Maneuvering Targets II. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on maneuvering target mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Maneuvering target mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1711

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, One or more (dissimilar) adversaries

SAA-1713 1.3 * B D S 2 TOFT

Goal. 2v2 IFD and Notchback. Conduct section intercepts against a known number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR focusing on independent fighter decisions and notchback mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Independent fighter decisions
Notchback

Practice

Mutual support
Radar mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

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Prerequisites. B: 1710

SAA-1714 1.3 * B D S 2 TOFT

Goal. 2vX L&D Flow Desired. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using low risk focusing on exit mechanics and notchback mechanics. The tactical situation will be controlled in a manner to allow fighters to exit or flow group to group.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Exit mechanics

Uncorrelated group comm

Practice

Mutual support

Radar mechanics

Timeline awareness

Weapons employment

Notchback mechanics

Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1713

SAA-1715 1.3 * B D S 2 TOFT

Goal. 2vX L&D Flow Required. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR. The tactical situation will be controlled in a manner to force fighters to target simultaneously and test leaning-on assessments and de-meld/re-meld mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Leaning-on assessment

De-meld/re-meld mechanics

Practice

Mutual support

Radar mechanics

Timeline awareness

Weapons employment

Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AA CI or AAI

Prerequisites. B: 1714

AA-1716 1.3 * B D A 2 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX L&D Flow Desired. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using low risk focusing on notchback mechanics. The tactical situation will be controlled in a manner to allow fighters to flow group to group.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Notchback

Practice

Mutual support
Radar mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1712, 1714

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

AA-1717 1.3 * B D A 2 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX L&D Flow Required. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using high risk and IFFR. The tactical situation will be controlled in a manner to force fighters to target simultaneously and test leaning-on assessments and de-meld/re-meld mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Leaning-on assessment
De-meld/re-meld mechanics

Practice

Mutual support
Radar mechanics
Timeline Awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAI

Prerequisites. B: 1715, 1716

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

SFAM-1718 1.0 * B (N*) S 1 TOFT

Goal. A/A Phase Emergency Procedures Review. Practice emergency procedures. Conduct should include scenarios that include damage from the A/A mission set. If RAC will complete A/A training at a detachment site, this event should be flown in the simulator at that detachment site.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, USMC FA-18 ADMIN SOP, and course rules.

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Cockpit switchology and set up procedures
Start procedures
Departure procedures
Airways navigation
Unusual attitude recovery
FCLP pattern

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG. Executes flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules. Comply with course rules. Adhere to USMC FA-18 ADMIN SOP.

Instructor. FAM CI or TSNI

Prerequisites. B: 1715

2.7.12 BASIC FIGHTER MANEUVERS (BFM) / OUT-OF-CONTROL FLIGHT (OCF)

2.7.12.1 Purpose. To introduce aircrew to FA-18 out-of-control flight procedures and employment in the visual air-to-air arena. Knowledge of air-to-air aircraft systems, weapons, and performance characteristics should be emphasized throughout BFM. BFM tac admin procedures, communications, training rules, and maneuver techniques will be stressed on every event.

2.7.12.2 General. Upon completion of the BFM stage, aircrew should be able to perform proper tac admin procedures and execute appropriate maneuvers for specific BFM sets. The baseline instructor is a BFMI, and OCFI for the OCF-1721. Aircraft should be configured with an operable RADAR, VTR/CVRS, ALR-67, CATM-9, and chaff/flare.

2.7.12.3 Stage Overview. Aircrew shall complete all BFM academic codes prior to completion of this stage of training.

2.7.12.4. Training Requirements. Additional training requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, configuration, etc.) it shall be completed prior to BFM-1729. When the requirement has been completed, log the appropriate FRS flight skill tracking code (RQD-6129 or 6130) in conjunction with the event flown. All additional requirements below must be accomplished by the RP on a two-seat flight with an IP in the rear seat.

BFM REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
SECTION TAKEOFF AS WING (RQD-6129)	BFM-1723
SECTION LANDING AS WING (RQD-6130)	BFM-1723

SBFM-1720 1.0 * B D S 2 TOFT

Goal. BFM Tac Admin. Conduct this event as a section part-task trainer to introduce BFM tac admin procedures.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

BFM tac admin
9K Offensive BFM set
9K Defensive BFM set
Butterfly set

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 0728

OCF-1721 1.2 * B D A 1 FA-18D

Goal. OCF/Departure Training. Introduce high AOA/advanced handling characteristics, impending departure cues, departure characteristics, and recovery indications/procedures.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

High AOA maneuvering
Vertical departures
Upright sustained spins
OCF immediate action procedures

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. OCFI

Prerequisites. B: 0722

Range Requirements. AA

BFM-1722 1.2 * B,R D A 1 FA-18D

Goal. Advanced Handling Characteristics. Introduce max performance maneuvering. Refresh aircrew will be evaluated as SFS.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Tactical vertical loop
Slow loop
Flat scissors entry
Deck save
Pirouette mechanics
Corkscrew mechanics
Ditch mechanics
Positional deck transition
Energy rate deck transition

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Max performance turn
Sustained turn

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1721
R: 0701

Range Requirements. AA

BFM-1723 1.0 * B D A 1 FA-18A/C/D, 1 FA-18D

Goal. Perch BFM Fundamentals. Introduce BFM tac admin procedures, introduce a level snapshot drill (SSD), and develop proficiency in executing the mechanics of Offensive and Defensive BFM as a part-task trainer focusing on high work and guns weave.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

BFM tac admin
Level SSD
9K Offensive BFM high work
9K Defensive BFM high work
Guns weave

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1720, 1722~(P)

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1724 1.0 * B,R D A 1 FA-18A/C/D, 1 FA-18D

Goal. Offensive Perch BFM / SFS. Execute the mechanics of Offensive BFM and evaluate RP as SFS. Refresh aircrew will execute this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

9K Offensive BFM set
6K Offensive BFM set
3K Offensive BFM set

Practice

Level SSD

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1723

R: 1708, 1722~(P),

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1725 1.0 * B,R D A 2 FA-18A/C/D

Goal. Offensive Perch BFM. Execute the mechanics of Offensive BFM. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Level SSD
9K Offensive BFM set
6K Offensive BFM set
3K Offensive BFM set

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1724

R: 1724

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1726 1.0 * B,R,MR D A 1 FA-18A/C/D, 1 FA-18D

Goal. Defensive Perch BFM / SFS. Execute the mechanics of Defensive BFM and evaluate RP as SFS. Refresh and Modified Refresh pilots will execute this event solo. Modified Refresh aircrew will execute a perch BFM combo during this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

9K Defensive BFM set
(B,R) 6K Defensive BFM set
(MR) 6K Offensive BFM set
3K Defensive BFM set

Practice

Level SSD

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1724~(W), 1725~(P)

R: 1724~(W), 1725~(P)

MR: 1706

Ordnance. CATM-9, 20 Chaff, 40 Flare

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Range Requirements. AA, EXP

BFM-1727 1.0 * B,R D A 2 FA-18A/C/D

Goal. Defensive Perch BFM. Execute the mechanics of Defensive BFM. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Level SSD
9K Defensive BFM set
6K Defensive BFM set
3K Defensive BFM set

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1726
R: 1726

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1728 1.0 * B D A 2 FA-18A/C/D

Goal. Perch BFM Combo. Practice Offensive and Defensive BFM skills.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Level SSD
9K Offensive BFM set
6K Offensive BFM set
6K Defensive BFM set
3K Defensive BFM set

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1727

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1729 1.0 * B,R D A 1 FA-18A/C/D, 1 FA-18D

Goal. High Aspect BFM / SFS. Execute High Aspect BFM and evaluate RP as SFS. The high aspect engagements will be tailored to drive specific unique merges. Refresh aircrew will execute this event solo.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Level maneuvering SSD
High Aspect BFM sets

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 0730, 1726~(W), 1728~(P)
R: 1726~(W), 1727~(P)

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFM-1730 1.0 * B,R D A 2 FA-18A/C/D

Goal. High Aspect BFM. Practice BFM skills. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Level maneuvering SSD
High Aspect BFM sets

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1729
R: 1729

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

SBFM-1731 1.0 * B D S 3 TOFT

Goal. 2v1 SEM Visual Sets Practice. Introduce visual sets and SEM. Conduct this event as a part-task trainer focusing on tac admin execution and comm.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Visual set

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 0731, 1730

BFM-1732 1.0 * B,R D A 2 FA-18A/C/D vs. 1 (Diss) Adv

Goal. 2v1 SEM Visual Sets. Introduce SEM against a Short Burn capable adversary from known visual sets. Conduct this event as a part-task trainer focusing on SEM execution. No kills should occur prior to the initial merge

for each engagement. Refresh aircrew will practice VID mechanics and SEM against a Short Burn capable adversary from a L&D intercept and a TAP-THE-CAP scenario. Conduct this event as a part-task trainer focusing on SEM execution. No kills should occur prior to the initial merge for each engagement. PID must be solved via VID at the merge.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- (B) Visual sets
- (R) Multiple engagements from a TAP-THE-CAP scenario
- (R) Detection via visual lookout, SRR, and RWR

Practice

- (R) Mutual support
- (R) Radar mechanics
- (R) Timeline awareness
- (R) Merge mechanics
- (R) VID mechanics
- (R) Weapons employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1731
R: 1730

Ordnance. CATM-9, TCTS Pod, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

External Syllabus Support. One (dissimilar) adversary

SBFM-1733 1.0 * B D S 3 TOFT

Goal. VID / TAP-THE-CAP Practice. Practice VID mechanics and SEM against a Short Burn capable adversary from a L&D intercept and a TAP-THE-CAP scenario. Conduct this event as a part-task trainer focusing on SEM execution. No kills should occur prior to the initial merge for each engagement. PID must be solved via VID at the merge.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

- Multiple engagements from a TAP-THE-CAP scenario
- Detection via visual lookout, SRR, and RWR

Practice

- Mutual support
- Radar mechanics
- Timeline awareness
- Merge mechanics
- Weapons employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1731

BFM-1734 1.0 * B,R D A 2 FA-18A/C/D vs. 1 (Diss) Adv

Goal. VID / TAP-THE-CAP. Practice VID mechanics and SEM against a Short Burn capable adversary from a L&D intercept and a TAP-THE-CAP scenario. Conduct this event as a part-task trainer focusing on SEM execution. No kills should occur prior to the initial merge for each engagement. PID must be solved via VID at the merge. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Multiple engagements from a TAP-THE-CAP scenario
Detection via visual lookout, SRR, and RWR

Practice

Mutual support
Radar mechanics
Timeline Awareness
Merge mechanics
Weapons employment

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. BFMI

Prerequisites. B: 1732, 1733

R: 1732

Ordnance. CATM-9, TCTS Pod, 20 Chaff, 40 Flare

Range Requirements. AA, EXP, MACH 1+

External Syllabus Support. One (dissimilar) adversary

2.7.13 ACTIVE AIR DEFENSE (AAD)

2.7.13.1 Purpose. To introduce aircrew to FA-18 employment in the air-to-air arena and in conducting AAD missions. Knowledge of air-to-air aircraft systems and weapons should be emphasized throughout AAD. Mission planning, timeline awareness, mutual support, sensor usage, standardized communications, weapons employment, and defensive reactions will be stressed on every event. AIC and Link 16 should be used to the maximum extent possible. A TCTS range should be used to the maximum extent possible.

2.7.13.2 General. The baseline threat for the AAD stage will be a modern 4th generation platform capable of employing modern semi-active missiles and advanced active missiles. At least one event shall be debriefed utilizing TCTS. Upon completion of the AAD stage, aircrew should be able to perform Launch and Leave (L&L) intercepts. The baseline instructor is an AAD CI or AADI. Aircraft should be configured with an operable RADAR, VTR/CVRS, ALR-67, CATM-9, Link 16, TCTS pod, and chaff/flare.

2.7.13.3 Stage Overview. Aircrew shall complete all AAD academic codes prior to completion of this stage of training.

SAAD-1801 1.3 * B,R D S 1+ TOFT

Goal. 1v2 L&L. Conduct single-ship intercepts against a known number of adversaries. Conduct this event as a part-task trainer using low risk focusing on L&L mechanics. Refresh aircrew will conduct this event as a two-ship.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Shot doctrine
Out mechanics
Cold operations checklist
BRAA generation
Re-attack mechanics
Staggerback

Practice

Radar mechanics
Weapons employment
Timeline awareness
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAD CI or AADI

Prerequisites. B: 0804

R: 0801, 0802, 1704

SAAD-1802 1.3 * B,R D S 2 TOFT

Goal. 2v2 L&L. Conduct section intercepts against a known number of adversaries. Conduct this event as a section part-task trainer using low risk focusing on L&L mechanics. Refresh aircrew will brief and lead this event.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Sanitization
Losing comm
Safety valves

Practice

Mutual support
Radar mechanics
Shot doctrine
Weapons employment
Timeline awareness
Out mechanics
Cold operations checklist
BRAA generation
Re-attack mechanics
Staggerback
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAD CI or AADI

Prerequisites. B: 1801

R: 1801

AAD-1803 1.2 * B,R D A 2 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX L&L. Conduct section intercepts against an unknown number of adversaries. Conduct this event as a section part-task trainer using low risk focusing on L&L mechanics.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Shot doctrine
Losing comm
Out mechanics
Cold operations checklist
BRAA generation
Re-attack mechanics
Sanitization
Safety valves
Staggerback

Practice

Mutual support
Radar mechanics
Timeline awareness
Weapons employment
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AADI

Prerequisites. B: 1717, 1802
R: 1707, 1708, 1732, 1802

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

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

SAAD-1804 1.5 * B,R,MR D S 4 TOFT

Goal. 4vX DCA I. Conduct a division day DCA mission against an unknown number of adversaries in a permissive environment. Two 20 min vulnerability periods required for completion.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Commit criteria
Fighter engagement zone management

Practice

Mutual support
Radar mechanics
Weapons employment
Timeline awareness

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Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAD CI or AADI

Prerequisites. B: 0805, 1802
R: 1802
MR: 1703, 1726, 0801, 0802

External Syllabus Support. AIC

SAAD-1805 1.5 * B,R,MR D S 4 TOFT

Goal. 4vX DCA II. Conduct a division day DCA mission against an unknown number of adversaries in a permissive environment. Two 20 min vulnerability periods required for completion. Refresh and Modified Refresh aircrew will execute this event from the dash 3 position.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AAD CI or AADI

Prerequisites. B: 1804
R: 1804
MR: 1804

External Syllabus Support. AIC

AAAD-1806 1.2 * B,R D A 2+ FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX or 4vX DCA. Conduct a section or division day DCA mission against an unknown number of adversaries in a permissive environment. One 20 min vulnerability period required for completion.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Commit criteria
Fighter engagement zone management

Practice

Mutual support
Radar mechanics

Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AADI

Prerequisites. B: 1803, 1805
R: 1803, 1805

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

AAD-1807 1.2 * B,R D A 4 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 4vX DCA I. Conduct a division day DCA mission against an unknown number of adversaries in a permissive environment. One 20 min vulnerability period required for completion. Refresh aircrew will execute this event in the dash 3 position.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AADI

Prerequisites. B: 1806
R: 1806

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

AAD-1808 1.2 * B,R D A/S 4 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 4vX DCA II. Conduct a division day DCA mission against an unknown number of adversaries in a permissive environment. One 20 min vulnerability period required for completion. Refresh aircrew will execute this event in the dash 3 position, and this event may be conducted as a simulator.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AADI

Prerequisites. B: 1807
R: 1807

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

AAD-1809 1.2 * B,R D A/S 4 FA-18A/C/D vs. 3+ (Diss) Adv

Goal. 4vX DCA III. Conduct a division day DCA mission against an unknown number of adversaries in a permissive environment. One 20 min vulnerability period required for completion. Refresh aircrew will execute this event from the lead or dash 3 position, and this event may be conducted as a simulator.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Practice

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AADI

Prerequisites. B: 1808
R: 1808

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Three or more (dissimilar) adversaries

2.7.14 STRIKE (STK)

2.7.14.1 Purpose. To introduce aircrew to conducting a FA-18 self-escort strike.

2.7.14.2 General. Emphasize mission planning, mutual support, timeline adherence, weapons employment, defensive reactions, and target acquisition/destruction. Simulated ordnance types may be substituted based on aircraft systems and range restrictions. Upon completion of the STK stage, aircrew should be able to perform a tactical ingress to attack a defended target, and execute defensive maneuvers against surface-to-air or air-to-air threats. The baseline instructor is a STK CI or STKI. Aircraft should be configured with an operable RADAR,

VTR/CVRS, ALR-67, CATM-9, TCTS pod, Link 16, and chaff/flare.

2.7.14.3 Stage Overview. Aircrew shall complete all STK academic codes prior to completion of this stage of training.

SSTK-1820 1.5 * B,R D S 4 TOFT

Goal. 4vX Strike. Conduct a division, medium altitude, PGM AI mission against a target with integrated air defenses. Refresh aircrew will execute this event from the dash 3 position.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Strike route planning

Weaponizing a specific target using PGMs

Target acquisition

Attack and destroy a specific target with a high acceptable level of risk

Inbound and outbound targeting

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. STK CI or STKI

Prerequisites. B: 0821

R: 0820

STK-1821 1.3 * B,R D A 2+ FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX or 4vX Strike. Conduct a section or division, medium altitude, PGM AI mission against a target with integrated air defenses. Refresh aircrew will execute this event from the dash 3 position if a 4-ship.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Strike route planning

Weaponizing a specific target using PGMs

Target acquisition

Attack and destroy a specific target with a high acceptable level of risk

Inbound and outbound targeting

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. STKI

Prerequisites. B: 1809, 1820

R: 1820

Ordnance. Simulated Ordnance, CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

2.7.15 FLEET TRANSITION (FTN)

2.7.15.1 Purpose. To develop proficiency in FA-18 air-to-ground employment, LAT, and NS prior to completion of the Core Introduction Phase. Admin and tac admin procedures should require only minimal input from instructors

throughout FTN.

2.7.15.2 General. FTN will be conducted concurrently with other stages after TSN.

Completion of FTN and all other stages of training at the FRS results in completion of the Core Introduction syllabus and MOS designation.

2.7.15.3 Stage Overview. Aircrew shall complete all FTN academic codes prior to completion of this stage of training.

SFTN-1901 1.5 * B D S 1 TOFT

Goal. HARM Employment. Introduce employment of the AGM-88 HARM.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

HARM employment against a ground based emitter

PB shots

TOO shots

HARM designation

Manually modified entry (MME)

Performance Standards. Conduct all requirements IAW the VMFAT-101 FSG.

Instructor. AS CI or ASI

Prerequisites. B: 0909

2.8 CORE PHASE

General. This phase contains basic Core 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.

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. Aircrew shall complete all FAM academic codes prior to completion of this phase of training. In addition to all academic codes applicable to this phase of training, the following administrative and academic tasks will be accomplished prior to completing the 2000 phase T&R codes.

Phase Overview

FA-18 CORE STAGES		
STAGE	PARAGRAPH	PAGE NUMBER
FAMILIARIZATION (FAM)	2.9.1	2-80
AIR-TO-AIR REFUELING (AAR)	2.9.2	2-81
AIR-TO-SURFACE (AS)	2.9.3	2-83
NIGHT SYSTEMS (NS)	2.9.4	2-88
AIR-TO-AIR (AA)	2.9.5	2-92
LOW ALTITUDE TACTICS (LAT)	2.9.6	2-97

2.9 CORE STAGES

2.9.1 FAMILIARIZATION (FAM)

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

General. This stage provides an arrival inventory of aircrew proficiency and allows aircrew to meet currency requirements for the FA-18. Squadrons shall use these events for introduction and area familiarization, back in the saddle training, or periodic emergency procedures training.

SFAM-2101 1.0 90 B,R,M (N) S 1 TOFT

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

Requirements

Introduce

Appropriately handle ground and two airborne emergency procedures

Practice

JHMCS use if equipped

Performance Standards

Execute the correct NATOPS immediate action and troubleshooting procedures
Appropriate flight leadership decisions

Instructor: Contract Instructor or NATOPS qualified aircrew

Prerequisite: None

FAM-2102 1.3 30 B,R,M D A 1+ FA-18A/C/D

Goal. Familiarization of local operating area.

Requirements

Introduce

Local course rules

Review

USMC FA-18 ADMIN SOP

Practice

Standardized ground, departure, arrival procedures IAW local course rules, and operating area procedures

Performance Standards

Demonstrate proficiency and knowledge in local area procedures and course rules
Demonstrate proficiency in local arrival procedures
Conduct one simulated instrument approach

Instructor: None Required

Prerequisite. 2101

Ordnance. CATM-9

Range Requirements. Any Available

2.9.2 AIR-TO-AIR REFUELING (AAR)

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

General. Operations shall be conducted in accordance with the applicable SRD and ATP-56/ATP 3.3.4.2 (JAPCC.org). Squadrons may conduct AAR as a part of other ferry or tactical missions. AN/AVS-11 NVCD symbology shall be blanked for the pilot in command while refueling.

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.

Currency. Reference US SRD para 3A.4 for Navy / USMC AAR currency requirements

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

Goal. Become proficient in day aerial refueling.

Requirements

Introduce

- Tanker Rendezvous
- Observation Position
- Astern position
- Refueling procedures
- Tanker Departure

Review

A total of six plugs with a minimum of two initial approaches to the basket. An initial approach is defined as commencing from the echelon position on the tanker and making a successful contact and withdrawal from the basket. Two contacts required if already proficient. (ref: US SRD)

Performance Standards

- 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

Instructor: None Required

Prerequisite. 2102

Range Requirements. AAR

External Syllabus Support. One compatible tactical or strategic tanker.

AAR-2202 1.3 365 B,R,M N A 1+ FA-18A/C/D

Goal. Become proficient in night aerial refueling.

Requirements

Practice

- Tanker Rendezvous
- Observation Position
- Astern position
- Refueling procedures
- Tanker Departure

Review

Same requirements as day. Day initial qualifications cannot be waived, or deferred, and shall be completed before night qualifications are attempted. (ref:US SRD)

Two successful and stabilized contacts aided

One successful and stabilized contact unaided

Performance Standards

- 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

Instructor: NSI required if this is the first time aircrew are seeing this event, or if this event has gone out of currency.

Prerequisite. 2201, 2401-2405

Range Requirements. AAR

External Syllabus Support. One compatible tactical or strategic tanker.

2.9.3 AIR-TO-SURFACE (AS)

Purpose. To develop proficiency in air-to-surface ordnance delivery and surface to air counter tactics (SACT).

General

Baseline instructor for all initial 2300 events shall be a LATI, NSI, FAI, MDTI, SFTI, FAC(A)I, or WTI. If the instructor in the event is a WSO, a designated section leader or higher pilot will lead the event and the WSO will brief and debrief the event. Emphasize SACT, target acquisition, designation techniques, delivery modes, attack parameters and air-to-ground validation. AS-2303 and AS-2304 should be flown on a raked range with Weapon Impact Scoring Set (WISS) capability. Aircraft should be configured with an operable VTR/CVRS, ALQ-126B/165, ALR-67, TGP, CATM-9, KY-58, Link 16, chaff and flare.

Ground/Academic Training. Aircrew shall complete all AS academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SAS-2301 1.5 * B (NS) S 1+ TOFT

Goal. Execute dive deliveries on a raked range.

Requirements

Discuss

- High, medium, and low angle dive/bunt attacks
- GP bombs, cluster munitions (CBUs), rockets, and gun employment
- Visual designations to computed deliveries
- System designations to computed deliveries
- Switchology, stores management, Joint Helmet Mounted Cueing System (JHMCS) use if equipped
- Display management, designation techniques, attack parameters (Z Diagrams)

Introduce

- Three high angle dive deliveries
- Three medium dive deliveries
- Three low angle dive deliveries
- Three strafe attacks
- Attack multiple targets using Auto and CCIP
- Attacks with visual designations
- Attacks with system designations

Performance Standards

- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Recognize errors in delivery techniques and make corrections.
- Adhere to tactical abort parameters.

Prerequisite. None

SAS-2302 1.5 180 B,R (NS) S 2 TOFT

Goal. Practice low-level navigation and pop attacks.

Requirements

Discuss

Carriage and release restrictions and frag avoidance requirements for Mk-83

Introduce

Low-level navigation ingress to a raked range prior to conducting pop attacks
Pop attacks using the computed delivery modes as a single ship and section
Attack parameters, delivery modes, designation techniques and valid deliveries

Review

Conduct pop attacks on a raked range using Auto and CCIP
Three single ship pop attacks
Three section pop attacks

Performance Standards

Adhere to WASP delivery parameters and TACSOP valid delivery criteria
Maintain briefed formation, visual mutual support, and achieve briefed attack separation via timing
Adhere to tactical abort parameters

Prerequisite. 2301

AS-2303 1.3 180 B,R,M (NS) A 2+ FA-18A/C/D

Goal. Practice dive deliveries on a raked range.

Requirements

Practice

Dive delivery and strafe skills
Designation techniques
System and visual designations to computed delivery
JHMCS if available
Attack parameters and delivery
Auto and CCIP deliveries

Review

Six dive deliveries required
Four strafes
System designations
Visual designations
JHMCS designation if available

Performance Standards.

Adhere to WASP delivery parameters and TACSOP valid delivery criteria
Recognize errors in delivery techniques and make corrections
Adhere to tactical abort parameters

Prerequisite. 2102, 2301

Ordnance. 12 MK-76, 500 20MM, 20 Chaff, 40 Flare

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

AS-2304 1.3 180 B,R,M (NS) A 2 FA-18A/C/D

Goal. Practice low angle visual dive delivery and pop attacks using system and visual designations to computed delivery on a raked range.

Practice

Low angle dive deliveries
Pop attacks
Auto and CCIP deliveries.

Review

Three low angle deliveries
Three individual pop attacks
Three section pop attacks
System designations
Visual designations
JHMCS designation if available
One High Drag ordnance profile/considerations

Performance Standards

Adhere to WASP delivery parameters and TACSOP valid delivery criteria
Recognize errors in delivery techniques and make corrections
Adhere to tactical abort parameters

Prerequisite. 2302

Ordnance. 4 BDU-45 or 12 MK-76, 20 Chaff, 40 Flare

Range Requirements. RSTD, RKD or LIVE RNG, STRAFE, INERT, EXP

SAS-2305 1.0 180 B,R,M (NS) S 2+ TOFT

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.

Requirements

Introduce

Two-ship air interdiction mission in a medium to high threat surface-to-air environment.
Preemptive and reactive maneuvers to defeat the simulated IADS.

Performance Standards

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. 2301

AS-2306 1.3 540 B,R,M (NS) A 2 FA-18A/C/D

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.

Requirements

Practice

Two-ship air interdiction mission in a medium to high threat surface-to-air environment
Preemptive and reactive maneuvers to defeat the simulated IADS

Performance Standards

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. 2305

Ordnance. 40 Chaff, 20 Flare. TCTS Pod if using TCTS instrumented range.

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

External Syllabus Support. EW/TCTS

SAS-2307 1.0 * B (NS) S 1+ TOFT

Goal. Practice simulated employment of laser guided weapons to include the Laser Maverick, Paveway II, and APKWS.

Requirements

Discuss

- Weapons capabilities and limitations
- Mission planning factors
- Stores management
- Cockpit displays
- Employment techniques
- Air-to-ground validation

Introduce

- LGB Deliveries
- LMAV Deliveries
- APWKS Deliveries

Practice

- Four LGB Deliveries via self-lasing
- Four LMAV Deliveries via self-lasing
- Four APWKS Deliveries via self-lasing

Performance Standards

- 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.

SAS-2308 1.0 * B (NS) S 1+ TOFT

Goal. Practice simulated employment of JDAM and LJDAM munitions.

Requirements

Discuss

- Weapons capabilities and limitations
- Mission planning factors
- Stores management
- Cockpit displays
- Employment techniques
- Air-to-ground validation

Introduce

- One PP
- One PP quantity
- One TOO LOCK
- One TOO POSN REL
- One TOO POSN REL (Pickle-Slew-Pickle)

One TOO auto-quantity
Two LJDAM against moving targets.

Performance Standards

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.

Prerequisite. 2307

SAS-2309 1.5 365 B,R,M (NS) S* 2+ TOFT

Goal. Practice section buddy lase/buddy bomb tactics using LGB/LMAV/APKWS.

Requirement.

Discuss

Emphasize LGW planning
Laser deconfliction
DPI acquisition
Laser marksmanship
Weapon support
Section target area tactics.

Introduce

Buddy bomb on two deliveries
Buddy lase on two deliveries

Practice

Four LGB deliveries
Four LMAV deliveries
Four APKWS deliveries

Performance Standards

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters and safe escape maneuvers.
Acquire/designate target with TGP.
Maintain proper geometry for weapons support until impact (buddy lase).

Prerequisite. 2307

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

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

Requirements

Discuss

LGB and IAM attacks using onboard sensors

Review

Appropriate air-to-ground timeline
Six TGP deliveries required for completion.
Two target attacks using buddy lase tactics
Two target attacks using buddy bomb tactics
Two target attacks using section simultaneous IAM tactics
Mutual support
Target acquisition
Target area tactics

Performance Standards

- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Adhere to tactical abort parameters and safe escape maneuvers.
- Acquire/designate target with TGP.
- Maintain proper geometry for weapons support until impact.
- Execute proper procedures for weapon programming and release.

Prerequisite. 2102, 2309

Ordnance. 2+ LGTR, Captive or Sim JDAM/LJDAM, 40 Chaff, 20 Flare

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

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

Goal. Practice section buddy lase/buddy bomb tactics using LMAV/APKWS.

Requirements

Practice

- LMAV and APKWS specific planning
- Laser deconfliction
- DPI acquisition
- Laser marksmanship
- Weapon support
- Section target area tactics

Review

- Section buddy lase tactics using LMAV/APKWS
- Section Buddy bomb tactics using LMAV/APKWS

Evaluate

- Four LMAV (CATM)
- Four APKWS profiles

Performance Standards

- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Adhere to tactical abort parameters and safe escape maneuvers.
- Acquire/designate target with TGP.
- Maintain proper geometry for weapons support until impact (buddy lase).

Prerequisite. 2102, 2307, 2309

Ordnance. CATM-65E, 7 APKWS (if available), 20 Chaff, 40 Flare

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

2.9.4 NIGHT SYSTEMS (NS)

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

General

For aircrew to attain first-time proficiency in the NS stage experienced oversight is required to develop fundamental NVD skills. Until aircrew are complete with the entire NS Qualification syllabus each NS event shall be flown with a pilot or WSO holding one of the following instructor certifications: NSI, NSLATI or a previously designated NSI(H). Designated and current NSI(Low)s shall be automatically re-designated NSLATIs. If the NSI in the event is a WSO, a designated division leader, FAI, or higher pilot will lead the event and the WSO NSI will brief and debrief the event. No other T&R events requiring NVD usage may be executed by aircrew until they have completed all events in the NS stage.

At the discretion of the commanding officer, aircrew complete and proficient with the NS 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. Consult T&R Program Manual for applicable light level and currency restrictions for NS sorties. Upon completion of the NS stage, aircrew may be designated NS qualified by their commanding officer.

Ground/Academic Training. Aircrew shall complete all NS academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SNS-2401 1.0 * B NS S 2 TOFT

Goal. Practice donning and removing NVDs, formation flight, radar intercepts, and ordnance deliveries using NVDs.

Requirements

Discuss

 NVD limitations

Demonstrate

 Donning and removing NVDs

Introduce

 Formation flight with the aid of NVDs

 Radar intercepts with the aid of NVDs

 Medium and high altitude ordnance deliveries with the aid of NVDs

Practice

 Two break-up and rendezvous

 Two circuits of the following tanker profile:

 One safe tanker rendezvous

 Two successful and stabilized contacts aided

 One successful and stabilized contacts unaided

 One tanker departure

 Two radar intercepts

 Four ordnance deliveries using high and medium angle dives

Performance Standards

 Demonstrate an understanding of visual illusions associated with NVD usage.

 Maintain briefed formations.

 Conduct safe rendezvous.

 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

 Conduct radar intercept 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. 2102

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

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

Requirements

Introduce

Various combinations of light options and range cues
Formation flight with the aid of NVDs above 5K' AGL
Radar intercepts with the aid of NVDs
Medium and high altitude ordnance deliveries with the aid of NVDs

Review

Four break up and rendezvous
One forward quarter radar intercept to an AIM-120 LAR
One stern intercept to an AIM-9 LAR

Performance Standards

Maintain visual mutual support.
Maintain briefed formations.
Conduct safe rendezvous.
Conduct radar intercept to arrive within valid LAR.
Take valid shots.

Prerequisite. 2102, 2401

Ordnance. CATM-9

Range Requirements. AA

NS-2403 1.3 * B NS A 2 FA-18A/C/D

Goal. Conduct medium/high altitude section LGW and IAM deliveries using NVDs and onboard sensors.

Requirements

Discuss

Mutual support
Target acquisition
Target area tactics

Introduce

Medium/high altitude section LGW and IAM deliveries using NVDs

Practice

Appropriate air-to-ground timeline
TGP deliveries

Review

Four LGB deliveries
Two buddy lase and/or buddy bomb attacks
Two section simulated JDAM deliveries

Performance Standards

Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Adhere to tactical abort parameters.
Acquire and designate briefed target with sensors.
Maintain mutual support and proper visual lookout with NVD scan adhering to mission crosscheck times.
Maintain proper geometry for weapons support until impact.
Execute proper procedures for weapon programming and release.

Prerequisite. 2310, 2402

Ordnance. 2+ LGTR, Captive or Sim JDAM, 40 Chaff, 20 Flare

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

NS-2404 1.3 * B NS A 2 FA-18A/C/D vs. 2 Adversaries

Goal. Conduct section intercepts against medium altitude, non-maneuvering forward quarter capable adversaries using NVDs. The fighters will 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. Expendables should be used by the adversaries and fighters on at least one run.

Requirements

Discuss

- Section intercept procedures
- Proper formation keeping
- Sorting
- BVR weapons employment
- Notch mechanics
- Out mechanics
- Standardized communications
- Effect of expendables on NVDs

Review

- Three intercepts

Performance Standards

- Maintain visual mutual support.
- Perform proper radar mechanics.
- Maintain situational awareness during dynamic maneuvering.
- Adhere to briefed air-to-air timeline.
- Take valid shots.

Prerequisite. 2402, 2507

Ordinance. CATM-9, CATM-120, 40 Chaff, 20 Flare

Range Requirements. AA, MACH 1+, EXP

External Syllabus Support. Two adversaries, AIC

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

Goal. Introduce medium and low angle dive deliveries, pop attacks, and strafe using NVDs on a raked range.

Requirements

Introduce

- Strafe attacks using NVDs

Review

- Medium and low angle dive deliveries using NVDs
- Pop attacks using NVDs

Evaluate

- Two medium angle dive deliveries
- Two individual pop attacks
- Two strafe attacks

Performance Standards

- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Adhere to tactical abort parameters.
- Know and understand visual illusions associated with NVD usage.
- Maintain situational awareness during dynamic maneuvering.
- Recognize errors in delivery techniques and make corrections.

Prerequisite. 2303, 2304, 2404

Ordnance. 12 MK-76, 250 RDS 20MM, 40 Chaff, 20 Flare

Range Requirements. RSTD, RKD RNG, WISS, EXP

2.9.5 AIR-TO-AIR (AA)

Purpose:

To increase aircrew proficiency in employing the FA-18 in all aspects of the air-to-air arena. Knowledge of air-to-air aircraft systems, weapons, and performance characteristics should be emphasized throughout this phase. For individual employment, LARs and shot validity for air-to-air weapons will be stressed on every mission. 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 used 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 TCTS range should be used to the maximum extent possible. If units are not co-located with an appropriate TCTS facility, every effort should be made to ensure aircrew have the ability to fly on and debrief in a TCTS facility prior to completing the AA-2500 stage.

General

For aircrew to attain first-time proficiency in the AA stage, experienced oversight is required to develop fundamental skills. Until aircrew are complete with the entire ACM Qualification syllabus each AA event shall be flown with and evaluated by an FAI(or previously designated ACTI), SFTI, MDTI, or WTI. If the Instructor in the event is a WSO, a designated division leader will lead the event and the instructor WSO will brief and debrief the event. Until aircrew are complete with the entire ACM Qualification syllabus, repeated AA events shall be flown with the previously listed instructors. Upon completion of the AA stage, aircrew may be designated ACM qualified by their commanding officer.

Ground/Academic Training. Aircrew shall complete all AA academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

AA-2501 1.3 180 B,R,M D A 2 FA-18A/C/D

Goal. Execute a level SSD and the mechanics of Offensive BFM.

Requirements

Discuss

- Emphasize energy management and assessment
- Turn circle theory
- Deck awareness
- Weapons employment recognition.

Introduce

- Level SSD
- 9K Offensive BFM set
- 6K Offensive BFM set
- 3K Offensive BFM set

Performance Standards

- Maintain offensive position.
- Employ follow-on weapons.
- Transition to High Aspect BFM if neutralized.

Take valid shots.

Prerequisite. 2102

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

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

Goal. Execute an oblique SSD and the mechanics of Defensive BFM.

Requirements

Discuss

- Energy management and assessment
- Turn circle theory
- Deck awareness
- Weapons employment recognition.

Introduce

- Oblique SSD
- 9K Defensive BFM set
- 6K Defensive BFM set
- 3K Defensive BFM set

Performance Standards

- Defeat initial weapons employment.
- Maneuver to deny follow-on WEZ.
- Neutralize attacker.
- Take valid shots.

Prerequisite. 2501

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

AA-2503 1.3 90 B,R,M D A 2 FA-18A/C/D

Goal. Execute a flat or rolling scissors, and High Aspect BFM from a neutral start. The altitude for the high aspect engagements should be varied to demonstrate the impact of altitude on fighter performance and game plan.

Requirements

Discuss

- Emphasize energy management and assessment
- Lift vector placement
- Game plan development
- Offensive and defensive transition recognition
- Weapons employment
- Deck awareness
- Expendable usage.

Introduce

- One flat scissors or rolling scissors
- Two neutral engagements from a known start

Performance Standards

- Deny opponent weapon employment opportunities.
- Achieve first weapons employment opportunity.

NAVMC 3500.50E
27 Oct 20

Gain a positional advantage.
Employ follow-on weapons.
Transition to Offensive or Defensive BFM.
Take valid shots.

Prerequisite. 2502

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

AA-2504 1.3 365 B,R,M D A 1 FA-18A/C/D vs. 1 Dissimilar Adv

Goal. Practice BFM skills versus a dissimilar adversary. The altitude for the high aspect engagements should be varied to demonstrate the impact of altitude on fighter performance and game plan.

Requirements

Practice

Three high aspect (butterfly and/or abeam sets)

Performance Standards

Deny opponent weapon employment opportunities.
Achieve first weapons employment opportunity.
Gain a positional advantage.
Employ follow-on weapons.
Transition to offensive or defensive BFM.
Take valid shots.

Prerequisite. 2503

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

External Syllabus Support. One dissimilar adversary

SAA-2505 1.0 * B D S 1 TOFT

Goal. Conduct single-ship intercepts against a known number of Short Burn capable adversaries. Conduct this event as a part-task trainer using high risk and IFFR.

Requirements

Discuss

Intercept geometry
Timeline awareness
Meld mechanics
Sort mechanics
Maneuvering target mechanics
Weapons employment
RWR awareness
Notch mechanics
Merge mechanics
Short range radar (SRR)

Introduce

Two Launch and Decide intercepts with no exit option against non-maneuvering groups declared

hostile

Two Launch and Decide intercepts with no exit option against maneuvering groups declared

hostile

Performance Standards

- Execute proper intercept geometry.
- Maintain timeline.
- Execute proper meld, sort and maneuvering target mechanics.
- Execute proper weapons employment taking valid shots.
- Maintain RWR awareness and execute proper notch and merge mechanics.
- Execute proper SRR and detect uncalled groups.

Prerequisite. 2102

Ordnance. AIM-9, AIM-120, 40 Chaff/20 Flare (simulated)

SAA-2506 1.0 * B D S 2 TOFT

Goal. Section intercepts against a known number of Short Burn capable adversaries. Conduct this event as a section part-task trainer using high risk and IFFR.

Requirements

Introduce

- Mutual support
- Maneuvering target mechanics
- Shot doctrine
- Weapons employment
- RWR awareness
- Notch mechanics
- Merge mechanics
- VID mechanics
- Using onboard systems to solve PID
- Launch and decide intercept against non-maneuvering groups declared hostile
- Launch and decide intercept against maneuvering groups declared hostile
- Launch and decide intercept against a group declared bogey using onboard systems to solve PID
- Launch and decide intercept against a group declared bogey forcing a VID at the merge
- Notchback

Performance Standards

- Maintain mutual support.
- Execute proper maneuvering target mechanics.
- Execute appropriate shot doctrine and weapons employment.
- Execute proper notch, exit, and merge mechanics.
- Use all available onboard systems to solve for PID.
- Achieve an accurate VID at the merge.

Prerequisite. 2505

Ordnance. AIM-9, AIM-120, 40 Chaff/20 Flare (simulated)

SAA-2507 1.0 365 B,R,M D S* 2+ TOFT

Goal. Conduct intercepts against a known number of short burn capable adversaries. Conduct this event as a part-task trainer demonstrating the tactical decision making and concepts required to transition from a Launch and Leave intercept to a Launch and Decide intercept. The fighters will initially execute a Launch Leave intercept with the tactical situation controlled in a manner to demonstrate a transition from Launch and Leave to Launch and Decide.

Requirements

Introduce

- Transitions from Launch and Leave intercepts to Launch and Decide intercepts
- Safety valves

Losing comm

Practice

Mutual support
Sanitization
Tactical decision making
Picture targeting
Maneuvering target mechanics
Shot doctrine
Weapons employment
Merge mechanics.
One defensive consideration

Performance Standards

Maintain mutual support.
Execute briefed picture targeting.
Execute briefed shot doctrine taking valid shots.
Execute appropriate sanitization and detect uncalled groups.
Recognize transition from Launch and Leave to Launch and Decide.
Recognize when to execute safety valves.
Recognize losing comm and execute correctly.

Prerequisite. 2506

Ordnance. AIM-9, AIM-120, 40 Chaff, 20 Flare (simulated)

AA-2508 1.3 180 B,R,M D A 2 FA-18A/C/D vs. 2 (Dissimilar)

Adversaries

Goal. Practice section engaged maneuvering (SEM) against Short Burn capable dissimilar (preferred) adversaries from both known visual sets and a TAP-THE-CAP scenario. Conduct this event as a part task trainer focusing on SEM execution. No kills should occur prior to the initial merge for each engagement. PID must be solved via VID at the merge.

Requirements

Discuss

SEM comm
SEM execution
Detection via visual lookout, SRR, and RWR

Introduce

Visual Set
Multiple engagements from a TAP-THE-CAP scenario
Detection via visual lookout, SRR, and RWR

Review

Notchback

Performance Standards

Execute SA enhancing SEM comm.
Detect the adversaries via SRR, RWR, and visual lookout.
Execute proper VID mech.
Execute proper SEM mech.
Take valid shots.

Prerequisite. 2507

Ordnance. CATM-9, TCTS Pod, 20 Chaff, 40 Flare

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

External Syllabus Support. Two (dissimilar) adversaries

AA-2509 1.3 * B D A 2 FA-18A/C/D vs. 2+ (Dissimilar)

Adversaries

Goal. Conduct intercepts against a known number of short burn capable adversaries. Conduct this event as a part-task trainer demonstrating the tactical decision making and concepts required to transition from a Launch and Leave intercept to a Launch and Decide intercept. The fighters will initially execute a Launch Leave intercept with the tactical situation controlled in a manner to demonstrate a transition from Launch and Leave to Launch and Decide.

Requirements

Discuss

- Mutual support
- Sanitization
- Tactical decision making
- Picture targeting
- Maneuvering target mechanics
- Shot doctrine
- Weapons employment
- Merge mechanics.

Practice

- Transitions from Launch and Leave intercepts to Launch and Decide intercepts
- Safety valves
- Losing comm

Review

- One defensive consideration

Performance Standards

- Maintain mutual support.
- Execute proper maneuvering target mechanics.
- Execute appropriate shot doctrine and weapons employment.
- Execute proper out, reattack, notch, exit, and merge mechanics.

Prerequisite. 2504, 2507

Ordnance. CATM-9, TACTS Pod, CATM-120, 40 Chaff, 20 Flare

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

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

2.9.6 LOW ALTITUDE TACTICS (LAT)

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

General

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. LAT-2600 stage events shall be flown on an approved LAT course. SLAT-2601 requires a LATI at the simulator console. LAT-2602 and 2603 require a LATI chase when the aircrew is not LAT qualified. Currency and altitude restrictions as stated in the T&R Program Manual apply. Aircraft should be configured with an operable VTR/CVRS, ALR-67, CATM-9, TGP, KY-58, and chaff/flare. Upon completion of this stage, aircrew may be designated LAT qualified by their commanding officer.

Ground/Academic Training. Aircrew shall complete all LAT academic codes prior to completion of this phase of

training. Refer to MAWTS-1 FA-18 Course Catalog.

SLAT-2601 1.0 365 B,R D S 1+ TOFT

Goal. Practice two dimensional and three dimensional LAT and threat reactions.

Requirements

Discuss

- LAT procedures
- Communications
- Maneuver techniques

Introduce

- Perform the 50% rule
- Check turns
- Hard turns
- Break turns
- Speed rush base line
- Vertical jinks
- Straight ahead oblique jinks
- Turning oblique jinks
- Reverse oblique jinks
- Ridgeline crossings
- 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. 2304, 2306

LAT-2602 1.3 * B D A 2 FA-18A/C/D

Goal. Develop proficiency in single ship conventional LAT.

Requirement.

Discuss

- LAT procedures
- Communications
- Maneuver techniques

Practice

First Circuit

- Descent to comfort level
- Straight and level
- Ridgeline crossings (if able),
- Speed rush base line
- Check turns
- Hard turns
- Break turns

Second Circuit

- 50% rule
- Vertical jinks

Straight ahead oblique jinks
Turning oblique jinks
Reverse oblique jinks
Third circuit
50% rule
Guns jink
2D weave
3D weave

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.

Prerequisite. 2601

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. LAT

LAT-2603 1.3 365 B,R,M D A 2 FA-18A/C/D

Goal. Develop proficiency in section conventional LAT and low altitude intercepts.

Requirements

Discuss

LAT procedures
Communications
Maneuver techniques

Introduce

First Circuit

Section descent to comfort level
Straight and level
Ridgeline crossings (if able)
Section called/uncalled turns

Second circuit

Section threat reactions
Section target attack

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.
Take valid shots.

Prerequisite. 2602

Ordinance. CATM-9, 2 INRT MK-83 HD(BSU-85), 20 Chaff, 40 Flare

Range Requirements. LAT, TGT, EXP

2.10 MISSION PHASE

General. This phase trains FA-18 aircrew in CAS, OAAW, AAD, AR, SCAR, STK, SEAD, 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 AS events of the section leader syllabus prior to beginning FAC(A) work-up.

Phase Overview

FA-18 MISSION STAGES		
STAGE	PARAGRAPH	PAGE NUMBER
CLOSE AIR SUPPORT (CAS)	2.11.1	2-100
ARMED RECONNAISSANCE (AR)	2.11.2	2-104
STRIKE COORDINATION AND RECONNAISSANCE (SCAR)	2.11.3	2-105
ACTIVE AIR DEFENSE (AAD)	2.11.4	2-107
SUPPRESSION OF ENEMY AIR DEFENSES (SEAD)	2.11.5	2-110
OFFENSIVE ANTI-AIR WARFARE (OAAW)	2.11.6	2-112
STRIKE (STK)	2.11.7	2-114
FORWARD AIR CONTROLLER (AIRBORNE) (FAC(A))	2.11.8	2-117
TACTICAL AIR COORDINATOR (AIRBORNE) (TAC(A))	2.11.9	2-125

2.11 MISSION STAGES

2.11.1 CLOSE AIR SUPPORT (CAS)

Purpose. To develop proficiency in the tactical employment of the FA-18 in all types of control and methods of attack during day and night conditions in permissive or contested threat environments.

General. All initial CAS events shall be evaluated by an FAI, SFTI, FAC(A)I, WTI. Designated WSO instructors can fill any flight position and will brief and debrief the event. The commanding officer may authorize inert ordnance in lieu of live ordnance when necessary. Aircraft should be configured with operable VTR/CVRS, ALR-67, ALQ, CATM-9, TGP, KY-58, DCS/VMF, Link 16, and chaff/flare when possible. Aircrew should demonstrate proficiency in the execution of CAS in all types of control and methods of attack during day and night conditions in permissive or contested threat environments. They should also deliver unguided, laser guided, forward firing, and inertially aided munitions on tactical targets and employ ordnance using reactive weaponeering both day and night in the CAS environment. The aircrew should be familiar with the use of the MACCS, supporting arms, and Joint Terminal Attack Controller (JTAC/FAC(A)) and how to integrate them.

Ground/Academic Training. Aircrew shall complete all CAS academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SCAS-3101 1.0 365 B,R D S 2 TOFT

Goal. Conduct GP CAS.

Requirements

Discuss

- Systems management
- TGP employment
- Target area tactics
- Timing
- Delivery mechanics
- Target correlation (if required)
- Bomb on target (BOT)
- Bomb on coordinate (BOC)
- Reactive weaponeering
- Threat countertactics
- Standardized CAS comm.

Introduce

- Three attacks under Type 1 terminal attack control (two dive deliveries, one pop attack)
- Two attacks using Type 2 terminal attack control (one bomb on target, one bomb on coordinate)
- One attack using Type 3 terminal attack control

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3
Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 2304

SCAS-3102 1.0 180 B,R,M (NS) S* 2 TOFT

Goal. Conduct PGM CAS.

Requirements

Introduce

MIR to CAS procedures
Five attacks under Type 2 and 3 terminal attack control

Practice

Systems management
TGP employment
Target correlation (if required)
Bomb on target (BOT)
Bomb on coordinate (BOC)
PGM/IAM employment
Target area tactics
Timing
Reactive weaponeering
Threat counter tactics
CAS comm
Laser marksmanship
Target generation mechanization.

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3
Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 3101, 2310

CAS-3103 1.3 365 B,R,M D A 2 FA-18A/C/D

Goal. Conduct day GP CAS.

Requirements

Practice

Systems management
TGP employment
Target area tactics
Timing
Delivery mechanics
Target correlation (if required)
Bomb on target (BOT)
Bomb on coordinate (BOC)

Reactive weaponeering
Threat countertactics
Standardized CAS comm.
Multiple CAS attacks under any type of control

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3
Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 3101

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

Range Requirements. RSTD, TGT, SST, CAS, TGT-MOVE, TGT-DISP, EXP

External Syllabus Support. JTAC or FAC(A)

CAS-3104 1.3 * B D A 2 FA-18A/C/D

Goal. Conduct day PGM CAS.

Requirement.

Review

Systems management
TGP employment
Target area tactics
Timing
Delivery mechanics
Target correlation (if required)
Bomb on target (BOT)
Bomb on coordinate (BOC)
PGM employment
Reactive weaponeering
Threat countertactics
Standardized CAS comm.
Multiple attacks of Type 2 and/or Type 3 terminal attack control.

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3
Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 3102

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

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

External Syllabus Support. JTAC or FAC(A)

CAS-3105 1.3 365 B,R,M (NS) A 2 FA-18 A/C/D

Goal. Conduct urban CAS. This sortie can be completed using an actual urban area with simulated ordnance if an urban target complex is not available.

Requirements

Discuss

Urban considerations

Introduce

Target PID/correlation
Imagery usage
ROE/CDE considerations
Target area geometry

Practice

Systems management
TGP pod employment
JTAC integration
Weapons employment.
Multiple CAS attacks in an urban environment

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3
Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 3104

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

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

External Syllabus Support. JTAC or FAC(A)

CAS-3106 1.3 180 B,R,M NS A 2 FA-18A/C/D

Goal. Conduct night CAS.

Requirements

Introduce

Multiple CAS attacks at night

Review

Systems management
NVD usage
TGP employment
Target correlation (as required)
ROE/CDE considerations
Bomb on target (BOT)
Bomb on coordinate (BOC)
PGM/IAM employment
Reactive weaponeering
Threat countertactics
Standardized CAS comm.

Performance Standards

Achieve desired ground commander's intent.
Comply with CAS TTPs IAW JPUB 3-09.3

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Comply with the TACP TACSOP and the FA-18 TACSOP.
Adhere to valid delivery criteria.
TOT +/- 15 secs.

Prerequisite. 3104

Ordnance. 1 GBU-32/38, 1 GBU-12/16, 1 Mk-82/83, 250 20mm, 40 Chaff, 20 Flare

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

External Syllabus Support. JTAC or FAC(A)

2.11.2 ARMED RECONNAISSANCE (AR)

Purpose. To develop proficiency in conducting Armed Reconnaissance missions during day and night conditions in permissive or contested threat environments.

General. Evaluated by a Division lead, Mission Commander, FAC(A)I, or WTI for initial events. Review 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, ALQ, CATM-9, TGP, binoculars, KY-58, DCS/VMF, Link 16, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all AR academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

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

Goal. Conduct a AR simulator with GP and PGM ordnance.

Requirements

Discuss

- Mission planning
- Target precedence
- Search pattern
- Reactive weaponeering
- Mutual support
- Target area tactics
- Intra-section target communication
- Time-to-kill
- Information flow through the C3 system

Introduce

- AR to locate, plot, and destroy targets of opportunity
- Multiple target attacks against a moving target set
- Six total attacks

Performance Standards

- Comply with TACSOP
- Conduct visual and sensor reconnaissance of assigned area and detect targets.
- Employ appropriate weapon and tactics for threat and target type.
- Adhere to valid delivery criteria.
- Minimize threat exposure and perform appropriate threat countertactics.

Prerequisite. 2304, 2305, 2310

Ordnance. 2 Mk-82/83/84, 2 GBU-12/16 or 2 GBU-38/32/54 or APKWS, 500 20mm, 40 Chaff/20 Flare (simulated)

AR-3202 1.3 365 B,R,M D A 2 FA-18A/C/D

Goal. Conduct day AR to detect and destroy targets of opportunity.

Requirements

Practice

- Mission planning
- Target precedence
- Search pattern
- Reactive weaponeering
- Mutual support
- Target area tactics
- Intra-section target communication
- Time-to-kill
- Information flow through the C3 system
- Multiple attacks

Performance Standards

- Comply with TACSOP
- Conduct visual and sensor reconnaissance of assigned area and detect targets.
- Employ appropriate weapon and tactics for threat and target type.
- Adhere to valid delivery criteria.
- Minimize threat exposure and perform appropriate threat countertactics.

Prerequisite. 3201

Ordnance. 2 Mk-82/83/84, 2 GBU-12/16 or 2 GBU-38/32/54 or APKWS or AGM-65, 500 20mm, 40 Chaff/20 Flare

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

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

Goal. Conduct night AR to detect and destroy targets of opportunity.

Requirements

Practice

- Mission planning
- Target precedence
- Search pattern
- Reactive weaponeering
- Mutual support
- Target area tactics
- Intra-section target communication
- Time-to-kill
- Information flow through the C3 system
- Multiple attacks

Performance Standards

- Comply with TACSOP
- Conduct visual and sensor reconnaissance of assigned area and detect targets.
- Employ appropriate weapon and tactics for threat and target type.
- Adhere to valid delivery criteria.
- Minimize threat exposure and perform appropriate threat countertactics.

Prerequisite. 3202

Ordnance. 1 LMAV (live or captive) or APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare

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

2.11.3 STRIKE COORDINATION AND RECONNAISSANCE (SCAR)

Purpose. To develop proficiency in conducting Strike Coordination and Reconnaissance missions during day and night conditions in permissive or contested threat environments.

General. Evaluated by a Division lead, Mission Commander, FAC(A)I, or WTI for initial events. 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. Aircraft should be configured with operable VTR/CVRS, ALR-67, ALQ, CATM-9, TGP, binoculars, KY-58, DCS/VMF, Link 16, and chaff/flare.

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

SSCAR-3301 1.0 180 B,R,M (NS) S* 2+ TOFT

Goal. Conduct day SCAR.

Requirement.

Discuss

- Mission planning
- Target precedence
- Search pattern
- Reactive weaponeering
- Mutual support
- Attack coordination, de-confliction, and management of AR assets
- Target area tactics
- Intra-section target communication
- Time-to-kill
- Information flow through the C3 system

Introduce

- Roles and responsibilities of the SCAR
- Coordinate at least one section of AR
- Coordinate a minimum of four attacks (one of which must be against a moving target)
- Coordinate a Battlefield Handover

Performance Standards

- Comply with TACSOP
- Effectively detect and pass targets to AR assets and C3.
- Prioritize targets in accordance with target precedence list.
- Effectively coordinate target attacks.

Prerequisite. 3202

Ordnance. Any ordnance

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

External Syllabus Support. One section AR assets

SSCAR-3302 1.3 365 B,R,M NS A 2+ FA-18A/C/D

Goal. Conduct night SCAR.

Requirement

Practice

- Mission planning
- Target precedence
- Search pattern
- Reactive weaponeering
- Mutual support
- Attack coordination, de-confliction, and management of AR assets
- Target area tactics
- Intra-section target communication
- Time-to-kill
- Information flow through the C3 system
- Coordinate at least one section of AR
- Coordinate a minimum of four attacks (one of which must be against a moving target)
- Coordinate a Battlefield Handover

Performance Standards

- Comply with TACSOP
- Effectively detect and pass targets to AR assets and C3.
- Prioritize targets in accordance with target precedence list.
- Effectively coordinate target attacks.

Prerequisite. 3301

Ordnance. 1 LMAV (live or captive) or APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare

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

External Syllabus Support. One section AR assets

2.11.4 ACTIVE AIR DEFENSE (AAD)

Purpose. To gain and maintain proficiency in AAD missions during day and night conditions in permissive or contested threat environments.

General. Initial events will have a DL-FAI, MDTI, SFTI, or WTI evaluating the event. For simulator events, the instructor can either lead the event or be at the console. Baseline threat for the SAAD-3401 to SAAD-3403 will be a modern 4th generation platform capable of employing modern semi-active missiles and/or active missiles. Baseline threat for SAAD-3404 and AAD-3405 will be a modern 4th generation platform capable of employing modern semi-active and advanced active missiles. Review 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 CVRS, ALQ, ALR-67, CATM-9, TGP, KY-58, CIT, Link 16, JHMCS, and chaff/flare. AIC and TCTS range should be utilized to the maximum extent possible.

Ground/Academic Training. Aircrew shall complete all AAD academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SAAD-3401 1.0 365 B,R D S 2+ TOFT

Goal. Conduct a day DCA mission against an unknown number of adversaries in a permissive environment. Two 20 min vulnerability periods required for completion. If conducted as a section, the first VUL will be conducted as Lead and -2, the second VUL will be conducted as Lead and -3.

Requirements

- Introduce
 - Commit criteria
 - Fighter engagement zone management
 - Picture targeting
 - Timeline awareness

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Shot doctrine
Sanitization
Standardized communications
Two 20 minutes vulnerability periods

Practice

VID

Performance Standards

Attrite all groups before they become a factor to the defended asset.
Execute targeting IAW briefed game plan.
Execute briefed shot doctrine.
Detect uncalled groups through fighter sanitization of the DEZ.
Maintain mutual support.
Timeline awareness.
Tactical decision making.

Prerequisite. 2509

Ordnance. AIM-9, AIM-120, 40 Chaff/20 Flare (simulated)

External Syllabus Support. AIC

AAAD-3402 1.3 * B D A 2+ FA-18A/C/D vs. 2+ (Dissimilar)

Adversaries

Goal. Conduct a day DCA mission against an unknown number of adversaries in a permissive environment. If conducted as a section, the evaluator will determine how to employ their -2(i.e. as -2 or independently as a -3).

Requirements

Practice

Commit criteria
Fighter engagement zone management
Picture targeting
Timeline awareness
Shot doctrine
Sanitization
Standardized communications
One 20 minute vulnerability
VID

Performance Standards

Attrite all groups before they become a factor to the defended asset.
Execute targeting IAW briefed gameplan.
Execute briefed shot doctrine.
Detect uncalled groups through fighter sanitization of the DEZ.
Maintain mutual support.
Timeline awareness.
Tactical decision making.

Prerequisite. 3401

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, two or more (dissimilar) adversaries, RTO.

SAAD-3403 1.0 180 B,R,M D S* 4 TOFT

Goal. Conduct a division DCA mission against an unknown number of adversaries.

Requirements

Introduce

- Threat warning condition
- Weapons control status
- ICAO identification
- Escort procedures
- Safety valves
- One 20 min vulnerability period with weapons control status hold

Practice

- Commit criteria
- Fighter engagement zone management
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Standardized communications
- One 20 min vulnerability period with weapons control status tight

Performance Standards

- Accurately ID and Escort aircraft.
- Apply escalatory responses as required.
- Attrite all groups before they become a factor to the defended asset.
- Execute targeting IAW briefed game plan.
- Execute briefed shot doctrine.
- Detect uncalled groups through fighter sanitization of the DEZ.
- Maintain mutual support.
- Timeline awareness.
- Tactical decision making.

Prerequisite. 3402

Ordnance. AIM-9, AIM-120, 40 Chaff, 20 Flare (simulated)

External Syllabus Support. AIC

SAAD-3404 1.0 180 B,R,M NS S 4 TOFT

Goal. Conduct a night division DCA mission against an unknown number of adversaries with EA.

Requirements.

Practice

- Commit criteria
- Fighter engagement zone management
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Recognition of losing comm.
- Standardized communications
- Two 20 min vulnerability periods

Performance Standards

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Attrite all groups before they become a factor to the defended asset.
Execute targeting IAW briefed game plan.
Execute briefed shot doctrine.
Detect uncalled groups through fighter sanitization of the DEZ.
Maintain mutual support.
Timeline awareness.
Tactical decision making.

Prerequisite. 3403

Ordnance. AIM-9, AIM-120, 40 Chaff, 20 Flare (simulated)

External Syllabus Support. AIC

AAD-3405 1.3 180 B,R,M NS A 4 FA-18A/C/D vs. 3+ (Dissimilar)

Adversaries

Goal. Conduct a DCA mission against an unknown number of adversaries with EA.

Requirements

Practice

Commit criteria
Fighter engagement zone management
Picture targeting
Timeline awareness
Shot doctrine
Sanitization
Safety valves
Recognition of losing comm.
Standardized communications
One 20 min vulnerability period

Performance Standards

Attrite all groups before they become a factor to the defended asset.
Execute targeting IAW briefed game plan.
Execute briefed shot doctrine.
Detect uncalled groups through fighter sanitization of the DEZ.
Maintain mutual support.
Timeline awareness.
Tactical decision making.

Prerequisite. 3404

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, Two or more (dissimilar) adversaries, RTO.

2.11.5 SUPPRESSION OF ENEMY AIR DEFENSES (SEAD)

Purpose. To develop proficiency in SEAD weapons and tactics during day and night conditions in permissive or contested threat environments.

General. Initial events will have an ARM-U graduate (SL minimum), SFTI, or WTI evaluating the event. Emphasize SEAD weapon capabilities and limitations, cockpit management, designation techniques, delivery modes and attack parameters. Aircraft should be configured with operable VTR/CVRS, ALQ, ALR-67, TGP, CATM-9, KY-58, Link 16, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all SEAD academic codes prior to completion of this phase of

training. Refer to MAWTS-1 FA-18 Course Catalog.

SSEAD-3501 1.0 365 B,R,M (NS) S* 1+ TOFT

Goal. Practice employment of the Joint Standoff Weapon (JSOW).

Requirement.

Discuss

Mission planning on JMPS
Weapon capabilities and limitations
Cockpit displays
Employment techniques.

Introduce

Two PP deliveries of the JSOW
One TOO delivery of the JSOW

Performance Standards

Effectively mission plan for JSOW A/C Variants.
Deliver JSOW with a TOT +/- 15 secs.
Execute proper procedures for weapon programming and release.

SSEAD-3502 1.0 180 B,R,M (NS) S* 1+ TOFT

Goal. Practice employment of the AGM-88 HARM and AGM-88E AARGM.

Requirements

Discuss

Mission planning on JMPS
Weapon capabilities and limitations
Cockpit displays
Employment techniques.

Introduce

Employment of the AGM-88 and AGM-88E against a ground based emitter
Three PB shots
Three TOO shots
HARM designation
Manually Modified Entry (MME)

Performance Standards

Mission plan for HARM and AARGM.
Deliver PB and TOO HARM IAW TACSOP.
Deliver PB and TOO AARGM IAW TACSOP.

SEAD-3503 1.3 365 B,R,M (NS) A 1+ FA-18A/C/D

Goal. Practice airborne employment of the AGM-88 HARM and AGM-88E AARGM.

Requirements

Discuss

Mission planning on JMPS
Weapon capabilities and limitations
Cockpit displays
Employment techniques

Review

Two PB HARM/AARGM shots with TOTs using FA-18 TACSOP tactics
Two TOO HARM/AARGM shots using FA-18 TACSOP tactics.

Performance Standards

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

Prerequisite. 3502

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

Range Requirements. MOA, TCTS, HiFi/MANNED LoFi EW

2.11.6 OFFENSIVE ANTI-AIR WARFARE (OAAW)

Purpose. To gain and maintain proficiency in OAAW missions during day and night conditions in permissive or contested threat environments.

General. Initial events will have a DL-FAI, MDTI, SFTI, or WTI evaluating the event. For simulator events, the instructor can either lead the event or be at the console. Baseline threat for OAAW will be a modern 4th generation platform capable of employing modern semi-active and advanced active missiles. Review 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 CVRS, ALQ, ALR-67, CATM-9, TGP, KY-58, CIT, Link 16, JHMCS, and chaff/flare. AIC and TCTS range should be utilized to the maximum extent possible.

Ground/Academic Training. Aircrew shall complete all OAAW academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SOAAW-3601 1.0 * B (NS) S 4 TOFT

Goal. Conduct a Sweep against an unknown number of adversaries. Fighter weapon control status is tight with PID criteria set by the flight lead according to theater of operation.

Requirements

Practice

Commit criteria
Picture targeting
Timeline awareness
Shot doctrine
Sanitization
Safety valves
Standardized communications

Performance Standards

Tactical decision making.
Execute targeting IAW briefed game plan.
Execute briefed shot doctrine.
Maintain mutual support.
Timeline awareness.

Prerequisite. 2509

External Syllabus Support. AIC

OAAW-3602 1.3 365 B,R,M (NS) A 4 FA-18A/C vs. 3+ (DISS) ADV

Goal. Conduct a division Sweep against an unknown number of adversaries in order to attrite enemy aircraft. Fighter weapon control status is tight with PID criteria set by the flight lead according to theater of operation.

Requirements

Practice

- Commit criteria
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Standardized communications

Performance Standards

- Tactical decision making.
- Execute targeting IAW briefed game plan.
- Execute briefed shot doctrine.
- Maintain mutual support.
- Timeline awareness.

Prerequisite. 3601

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, two or more (dissimilar) adversaries, RTO.

SOAAW-3603 1.0 180 B,R,M (NS) S*/A 4 TOFT

Goal. Conduct a Close Escort mission in direct support of a strike package against an unknown number of dissimilar adversaries. Fighter weapon control status is tight with PID criteria set by the flight lead according to theater of operation.

Requirements

Review

- Commit criteria
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Standardized communications

Performance Standards

- Tactical decision making.
- Attrite all groups before they become a factor to the strikers.
- Execute targeting IAW briefed game plan.
- Execute briefed shot doctrine.
- Detect all uncalled groups through fighter sanitization.
- Maintain mutual support.
- Timeline awareness.

Prerequisite. 2509

External Syllabus Support. AIC

OAAW-3604 1.3 365 B,R,M (NS) A 4 FA-18A/C vs. 3+ (DISS) ADV

Goal. Conduct a Screen mission against an unknown number of dissimilar adversaries. Fighter weapon control status is tight with PID criteria set by the flight lead according to theater of operation.

Requirements

Review

- Division intercept procedures
- Maintaining proper formation
- Commit criteria
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Standardized communications

Performance Standards

- Tactical decision making.
- Attrite all groups before they become a factor to the strikers.
- Execute targeting IAW briefed game plan.
- Execute briefed shot doctrine.
- Detect all uncalled groups through fighter sanitization.
- Maintain mutual support.
- Timeline awareness.

Prerequisite. 3603

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, two or more dissimilar adversaries, RTO.

2.11.7 STRIKE (STK)

Purpose. To develop proficiency in conducting STK missions.

General. Initial events will have a DL-FAI, MDTI, SFTI, or WTI evaluating the event. 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/165, ALR-67, CATM-9, TGP, KY-58, CIT, Link 16, JHMCS, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all STK academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SSTK-3701 1.0 * B (NS) S 2 TOFT

Goal. Conduct a section AI mission against a target with integrated air defenses. 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. The evaluator will determine how to employ their -2(i.e. as -2 or independently as a -3).

Requirements

Discuss

- Air-to-ground mission planning
- Air-to-air mission planning
- Tactical decision making

Target acquisition
Strike route planning
Weaponing a specific target using PGMs

Introduce

Attack and destroy a specific target with a high acceptable level of risk
Inbound and outbound targeting
FEZ/MEZ aggression
Two complete runs

Performance Standards

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

Prerequisite. 2310, 2509

External Syllabus Support. AIC

STK-3702 1.3 * B D A 2+ FA-18A/C/D vs. 2+ Adversaries

Goal. Conduct a section, day, low altitude, GP ordnance AI mission against a target with integrated air defenses. 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. If employed as a section, the evaluator will determine how to employ their -2(i.e. as -2 or independently as a -3).

Requirements

Discuss

Air-to-ground mission planning
Air-to-air mission planning
Tactical decision making
Timeline awareness
Mutual support
Target acquisition
Target destruction

Practice

Strike route planning
Weaponing a specific target using PGMs
Attack and destroy a specific target with a high acceptable level of risk
Inbound and outbound targeting
FEZ/MEZ aggression

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. 3701

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

Range Requirements. TGT, AA, EW, SST, TCTS, TGT-DISP, LSR, EXP

External Syllabus Support. AIC, two adversaries and one tanker (if AAR required), RTO.

SSTK-3703 1.0 180 B,R,M (NS) S* 4 TOFT

Goal. Conduct a division, medium altitude, PGM AI mission against a target with integrated air defenses. 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.

Requirements

Practice

- Air-to-ground mission planning
- Air-to-air mission planning
- Tactical decision making
- Timeline awareness
- Mutual support
- Target acquisition
- Target destruction

Review

- Strike route planning
- Weaponing a specific target using PGMs
- Attack and destroy a specific target with an acceptable level of risk at the discretion of the flight lead

- Inbound and outbound targeting
- FEZ/MEZ aggression

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. 2310,2507External Syllabus Support. AIC

STK-3704 1.3 365 B,R,M D A 4 FA-18A/C/D

Goal. Conduct a division, medium altitude, LGB AI mission against a target with integrated surface-to-air defenses. 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

Requirements

Practice

- Air-to-ground mission planning
- Air-to-air mission planning
- Tactical decision making
- Timeline awareness
- Mutual support
- Target acquisition
- Target destruction

Review

- Strike route planning
- Weaponizing a specific target using LGBs
- Attack and destroy a specific target with a high acceptable level of risk
- Inbound and outbound targeting
- FEZ/MEZ aggression

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. 3703

Ordnance. 2 GBU-12/16, CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. RSTD, TGT, AA, EW, TCTS, TGT-DISP, LSR, EXP

External Syllabus Support. Two adversaries (dissimilar), AIC, 1 tanker (if AAR required), RTO.

STK-3705 1.3 180 B,R,M NS A 4 FA-18A/C/D vs. 2+ Adversaries

Goal. Conduct a division, night, medium altitude, IAM AI mission against a target with integrated air defenses. 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.

Requirements

Review

- Air-to-ground mission planning
- Air-to-air mission planning
- Tactical decision making
- Timeline awareness
- Mutual support
- Target acquisition
- Target destruction

Evaluate

- Strike route planning
- Weaponizing a specific target using JDAM
- Attack and destroy a specific target with an acceptable level of risk at the discretion of the flight

lead

- Inbound and outbound targeting
- FEZ/MEZ aggression

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. 3704,8300-8351

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

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

External Syllabus Support. Two adversaries (dissimilar), AIC, 1 tanker (if AAR required), RTO.

2.11.8 FORWARD AIR CONTROLLER (AIRBORNE) (FAC(A)) FA-18D

Purpose. To develop proficiency in FAC(A).

General:

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. The JFAC(A) MOA can be found on the NIPRNET at [https://mceits.usmc.mil/sites/mawts1/SitePages/JFAC\(A\).aspx](https://mceits.usmc.mil/sites/mawts1/SitePages/JFAC(A).aspx). Aircrew conducting FAC(A) operations shall comply with the policies contained in the most recent version of the JFAC(A) MOA.

Prior to beginning this stage, FA-18D pilots shall be designated as a section leader by the commanding officer and be CAS 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-6305 complete).

Nonqualified aircrew will fly FAC(A)-3801 through FAC(A)-3809 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.

Upon successful completion of FAC(A)-3801 through FAC(A)-3809 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.

A non-qualified FAC(A) aircrew shall 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 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.

If both FA-18D aircrew are undergoing FAC(A) qualification concurrently, they should split the tactical briefing and debriefing responsibilities for each flight.

FAC(A)-3807 through FAC(A)-3809 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)-3809 checkride executing FAC(A) with multiple elements in a contested environment.

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.

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 currency period.

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.

The table below depicts the minimum number of controls required to gain initial FAC(A) certification. These requirements have been consolidated in the FAC(A) syllabus. If a required item is not completed on a dedicated event, that item can be conducted on a subsequent event. However, a FAC(A) qualification cannot be awarded without completing all requirements depicted in 3801-3809 to ensure adherence to the JFAC(A) MOA.

JFAC(A) MOA Initial Certification Requirements		
Terminal Attack Control Task	Min Required	Condition
Type 1	3	Live or Dry
Type 2	3	Live, Dry or Simulated

Type 3	3	Live, Dry or Simulated
BOT	4	Live or Dry
BOC	2	Live, Dry or Simulated
FW CAS Aircraft	4	Live or Dry
RW CAS Aircraft	2	Live, Dry or Simulated
LTD/IR Pointer ¹	2	Live or Dry
ISO JTAC	2	Live, Dry or Simulated
ISO Remote Observer	2	Live, Dry or Simulated
Ordnance	4	Live
Contested/Highly Contested	2	Live or Dry
Day	2	Live or Dry
Night	2	Live or Dry
SEAD	2	Live, Dry or Simulated
Urban	2	Live, Dry or Simulated

In order to maintain FAC(A) qualification currency, the FAC(A) crew shall execute a minimum of four CAS Mission Profiles (CMPs) every 12 months. Each CMP will consist of a brief, time on station, and debrief. Multiple times on stations for airborne mid mission tanking evolutions, will consist of multiple CMPs. Two of the CMPs will be flown. The other two CMPs can be conducted in the simulator and are depicted via the maintain codes in the syllabus. The below table describes the Terminal Attack Control/Task and Condition that need to be met in order to maintain currency.

JFAC(A) MOA Maintain Annual Minimums		
Terminal Attack Control Task		Condition
Type 1		Live, Dry or Simulated
Type 2		Live, Dry or Simulated
Type 3		Live, Dry or Simulated
BOT		Live, Dry or Simulated
BOC		Live, Dry or Simulated
FW CAS Aircraft		Live or Dry
RW CAS Aircraft		Live, Dry or Simulated
LTD/IR Pointer ¹		Live, Dry or Simulated
ISO JTAC		Live, Dry or Simulated
ISO Remote Observer		Live, Dry or Simulated
Ordnance		Live
Contested/Highly Contested		Live, Dry or Simulated
Day		Live or Dry
Night		Live or Dry

Escort aircraft that are not flown by a FAC(A)I conducting instruction during a FAC(A) workup will log a AESC-

4303 (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. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9, TGP, LST, KY-58, DCS/VMF, Link 16, JHMCS, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all FAC(A) academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SFAC(A)-3801 1.5 365 B,R,M D S 2+ TOFT

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

Requirements

Introduce

- Visual/sensor reconnaissance of three separate targets
- Generate target coordinates with aircraft systems
- Plot targets on gridded imagery/chart
- Prepare target briefs
- Control two Type 1 attacks by FW aircraft using roll-in delivery profiles
- Control two Type 2 attacks by FW aircraft using level and roll-in delivery profiles
- CAS briefs and control procedures
- Authentication procedures
- Laser mark on one target
- LGW guidance to impact
- Provide BDA

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. 6312~(Pilot),(6301-6305)~(WSO).

SFAC(A)-3802 1.5 * B D S 2+ TOFT

Goal. FAC(A) FW Type 2/3 control procedures with PGM/GP ordnance in an urban environment with a permissive threat.

Requirement.

Introduce

Talk-ons

Practice

- Visual/sensor reconnaissance of three separate targets
- Generate target coordinates with aircraft systems
- Plot targets on gridded imagery/chart
- Prepare target briefs
- Control two Type 2 attacks by FW
- Control one Type 3 attacks by FW
- CAS briefs and control procedures
- Authentication procedures
- Provide BDA
- Timely, accurate corrections for CAS aircraft

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 3801

FAC(A)-3803 1.3 * B (NS) A/S 1+ FA-18D and 1 Escort or 1+ TOFT

Goal. Introduce mortar/artillery airspot and CASEVAC procedures.

Requirement.

Discuss

Accurate call-for-fire communications and adjustment procedures
High-threat airspot and FAC(A) positioning to provide redundant mark
Accurate corrections for IDF with simulated weather or overcast at 8K' MSL
CASEVAC procedures

Introduce

Call-for-fire brief
One adjust fire (laser grid) mission
One immediate suppression mission
One SEAD mission
One high threat SEAD mission
Two CASEVAC missions

Practice

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart

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. 2102

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

Goal. Introduce FAC(A) FW Type 1 control procedures with GP in a medium threat contested environment with a JFO. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation. If no JFO is available, the JFO can be simulated by another crew member.

Requirements

Introduce

JFO integration

Practice

Visual/sensor reconnaissance of three separate targets on a tactical range
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
Control four Type 1 attacks by FW
CAS briefs and control procedures
Authentication procedures
Provide BDA
Timely, accurate corrections for CAS aircraft

Performance Standards

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

Prerequisite. 3802

Ordnance. Two pods 2.75"/5.0" RP rockets, 250 20mm, 40 Chaff, 20 Flare

Range Requirements. RSTD, JCAS, SST, EXP

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

FAC(A)-3805 1.3 365 B,R,M NS A 1 FA-18D and 1 Escort

Goal. Introduce FAC(A) FW Type 2 and 3 control procedures with PGMs/IAMs in a permissive threat environment. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Requirements

Introduce

LTD or IR marker

Practice

Visual/sensor reconnaissance of three separate targets on a tactical range
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
LTD and/or IR marker used for correlation on two attacks
Control three Type 2 attacks by FW aircraft
Control three Type 3 attacks by FW aircraft
Two BOC methods of attack
CAS briefs and control procedures
Authentication procedures
Laser mark on one target
LGW guidance to impact
Provide BDA

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 3804

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)-3806 1.3 365 B,R,M (NS) A 1+ FA-18D and 1 Escort

Goal. Introduce FAC(A) RW Type 2 and 3 control procedures in a contested environment with JFO integration. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation. Captive Hellfire is acceptable. If no JFO is available, it may be simulated by another flight member or observer.

Requirements

Discuss

- Corrections
- Limit-of-advance
- Threat lookout for RW assets in the target area

Introduce

- Appropriate tactics for target illumination if required at night

Practice

- Visual/sensor reconnaissance of three separate targets on a tactical range
- Generate target coordinates with aircraft systems
- Plot targets on gridded imagery/chart
- Prepare target briefs
- Control two Type 2 attacks by RW aircraft with JFO integration
- Control two Type 3 attacks by RW aircraft
- CAS briefs and control procedures
- Authentication procedures
- Marking rounds/talk-on or provide laser designation for Hellfire employment
- Two Hellfire controls desired with one incorporating FAC(A) lasing for Hellfire employment
- Provide BDA

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 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 JFO.

SFAC(A)-3807 1.5 * B (NS) S 2+ TOFT

Goal. Practice FAC(A) multi-element and supporting arms integration in a contested environment. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation.

Requirements

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Introduce

Integrated attacks utilizing two or more elements

Practice

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 3806

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

SFAC(A)-3808 1.5 365 B,R,M NS S 2+ TOFT

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

Requirements

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Review

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Integrated attacks utilizing three or more elements
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 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)-3809 1.3 365 B,R,M (NS) A 1+ FA-18D and 1 Escort

Goal. Practice FAC(A) multi-element and supporting arms integration. This evaluation sortie should be flown in a MAGTF level exercise if possible. SEAD mission can be simulated as one of the required elements. However, two SEAD missions are required if the 3803 was conducted in the simulator in order to meet the JFAC(A) MOA mins for certification.

Requirements

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Evaluate

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Integrated attacks utilizing three or more elements
Two SEAD missions
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 3808

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.

2.11.9 **TACTICAL AIR COORDINATOR (AIRBORNE) [TAC(A)]**

Purpose. To develop proficiency in TAC(A).

General

Evaluated by a TAC(A)I. This phase of training is designed for experienced aircrew. Prior to commencing the TAC(A) syllabus, aircrew must be FAC(A) qualified. The TAC(A)I may be in the escort aircraft. The commanding officer may designate aircrew as TAC(A) qualified upon successful completion of this phase of training via the TAC(A)-3901.

Ground/Academic Training. Aircrew shall complete all TAC(A) academic codes prior to completion of this phase

of training. Refer to MAWTS-1 FA-18 Course Catalog.

TAC(A)-3901 1.3 1095 B,R,M (NS) A 1+ FA-18D

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

Requirements

Introduce

- 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
- 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 BDA via the C3 system.

Prerequisite. 3809

Range Requirements. MOA

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

2.12 CORE PLUS PHASE

General. This phase contains Core Plus training a community may accomplish. Although Core Plus 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.

Phase Overview

FA-18 CORE PLUS STAGES		
STAGE	PARAGRAPH	PAGE NUMBER
FCLP	2.13.1	2-126
MIR	2.13.2	2-128
AESC	2.13.3	2-129
AMT	2.13.4	2-131
FI	2.13.5	2-133
NSLAT	2.13.7	2-134
FAC(A)	2.13.8	2-136
EXP	2.13.9	2-146

2.13 CORE PLUS STAGES

2.13.1 FIELD CARRIER LANDING PRACTICE / CARRIER QUALIFICATION (FCLP/CQ)

Purpose. To practice for carrier operations.

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 CQ-4104 completes the CV qualification syllabus.

SFCLP/CQ-4101 1.0 365 B,R (N) S 1+ TOFT

Goal. Conduct simulated carrier landings using Case I and Case III procedures. Simulator must be monitored by an LSO.

Requirements

Discuss

Pattern procedures
Landing technique
Deck procedures
Emergency procedures.

Introduce

Perform Case I and two Case III recoveries
Four carrier landings.

Prerequisite. FAM-2102.

External Syllabus Support. LSO.

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

Goal. Practice day FCLP procedures under the control of an LSO.

Requirement

Practice

Six touch and go's

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. 2102,4101

Range Requirement. Airfield with FCLP pattern, carrier box, and fresnel lens

External Syllabus Support. LSO

FCLP/CQ-4103 1.0 365 B,R,M N A 1+ FA-18A/C/D

Goal. Practice night FCLP procedures under the control of an LSO.

Requirements

Practice

Six touch and go's

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. 2102,4102

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

External Syllabus Support. LSO

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

Goal. Qualify for day carrier landing operations under the control of an LSO.

Requirement

Evaluate

Qualify for day carrier landing operations IAW LSO NATOPS

NAVMC 3500.50E
27 Oct 20

Performance Standards. IAW LSO NATOPS.

Prerequisite. 2102,4102

External Syllabus Support. LSO

FCLP/CQ-4105 1.0 365 B,R,M N A 1+ FA-18A/C/D

Goal. Qualify for night carrier landing operations.

Requirement

Evaluate

Qualify for night carrier landing operations IAW LSO NATOPS

Performance Standards. IAW LSO NATOPS.

Prerequisite. 2102,4103,4104

External Syllabus Support. LSO

2.13.2 MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)

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

General

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, ALR-67, KY-58, CATM-9, and chaff/flare. ATARS aircraft must be configured with two operable Digital Tape Recorders, ATARS sensors, and APG-73. Initial event evaluated by a section lead or higher designation.

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

MIR-4201 1.3 365 B,R,M (NS) A 1+ FA-18A/C/D

Goal. Introduce tactics, techniques, and procedures associated with Multi-Sensor Imagery Reconnaissance (MIR) missions with an advanced targeting sensor (Gen 3 or later TGP).

Requirement

Discuss

Mission planning

Target acquisition

Employment of a TGP in a permissive environment

Introduce

Medium altitude MIR as a section

Detect both pre-planned targets and targets of opportunity within a 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. 3201

Range Requirements. MOA, URBN TRG

MIR-4202 1.3 365 B,R,M (NS) A 1+ FA-18D

Goal. Introduce Electro-optical (EO), Infrared (IR) and Synthetic Aperture Radar (SAR) imagery collection while employing ATARS.

Requirement.

Discuss

Mission planning
Target acquisition
Employment of EO, IR and SAR sensors while executing a day AR mission.

Introduce

Conduct high and low altitude AR
Detect and collect EO/IR/SAR imagery of both pre-planned targets and targets of opportunity
Collect one vertical, one high oblique, and one low oblique EO image
Collect two SAR strip maps and two SAR spot maps
Collect IR imagery when applicable.

Performance Standards

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

Prerequisite. 2102

Ordnance. 40 Chaff, 20 Flare

Range Requirements. RSTD, TGT, EXP

2.13.3 AERIAL ESCORT (AESC)

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

General. Initial events will have a FAI, DL-FAI, MDTI, SFTI, or WTI evaluating the event. Emphasize mission planning, tactical decision making, element positioning, threat acquisition, neutralization or destruction. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9, TGP, KY-58, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all AESC academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SAESC-4301 1.0 540 B,R,M (NS) S 2 TOFT

Goal. Conduct convoy escort.

Requirement

Discuss

Mission planning
Target precedence
Search pattern
Attack parameters
Delivery modes
Designation techniques
Information flow through the C3 system

Introduce

Conduct convoy escort along a route
Locate and destroy targets of opportunity in a low or medium threat environment

Performance Standards

Locate and attack targets.

NAVMC 3500.50E
27 Oct 20

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. 3203

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

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

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

AESC-4302 1.3 540 B,R,M (NS) A 2 FA-18A/C/D vs. 1+ Adversaries

Goal. Conduct assault support escort.

Requirement.

Discuss

Mission planning
Target precedence
Search pattern
Attack parameters
Delivery modes
Designation techniques
Information flow through the C3 system

Practice

Assault support along a route
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. 3203

Ordnance. CATM-9, 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.

AESC-4303 1.3 * B (NS) A 1 FA-18D

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

Requirement.

Discuss

Communication relay
Backup marks.

Introduce

Perform wingman duties during a FAC(A) mission
Provide mutual support, threat lookout, and duties assigned by the FAC(A) aircraft

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. 2102

Ordnance. 1 AGM-65E/E2 (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.

AESC-4304 1.3 365 B,R,M D A 1+ FA-18A/C/D vs. 1+ RW/Prop

Goal. Introduce aircrew to helicopter/prop aircraft attack.

Requirement

Discuss

Optimum weapons employment profiles

Introduce

Visual attacks against helicopters/prop aircraft

One attack with a simulated radar missile

One attack with the CATM-9

One attack with the simulated air-to-air gun

One attack with the simulated air-to-ground gun

One attack with simulated GP bomb

Performance Standards

Maintain offensive position on adversary aircraft.

Valid weapons employment.

Prerequisite. 2508

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

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

2.13.4 ATTACK ENEMY MARITIME TARGETS (AMT)

General. Initial events will have a FAI, DL-FAI, MDTI, SFTI, or WTI evaluating the event. 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.

Purpose. To conduct sea control missions.

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

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

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

Requirement

Discuss

Mine line planning

Proper stores management

Switchology

Mine placement.

Introduce

Three runs using flight director (FD) mode
One run using AUTO mode

Performance Standards

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

SAMT-4402 1.0 365 B,R,M (NS) S*/A 2 TOFT

Goal. Practice employment of SLAM-ER/Harpoon munitions.

Requirement

Discuss

Weapons capabilities and limitations
Mission planning factors
Stores management and cockpit displays
Employment techniques.

Demonstrate

SLAM-ER and Harpoon mission planning
SLAME-ER and Harpoon employment

Introduce

Two SLAM-ER deliveries from launch, datalink, and terminal guidance
Four Harpoon deliveries

Performance Standards

Mission plan for Harpoon employment
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 B,R,M (NS) A 2 FA-18A/C/D

Goal. Conduct a Sea Surface Control (SSC) mission in support of the Anti-Surface Warfare Commander's objectives.

Requirement

Discuss

FAC/FIAC target acquisition
Identification
Command and control coordination
Weapons employment

Introduce

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. 3203

Range Requirement. MOA

External Syllabus Support Required. Controlling naval surface platform.

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

Goal. Conduct a section or division War-at-Sea Exercise (WASEX) strike mission.

Requirement

Discuss

- Mission planning
- Target acquisition
- Tactical decision-making
- Mutual support
- Threat reaction
- Target destruction.

Introduce

- 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. 3704, 3705~NS

Range Requirements. MOA

External Syllabus Support Required. Controlling naval surface platform.

2.13.5 FIGHTER INTEGRATION (FI)

Purpose. To gain and maintain proficiency in Fighter Integration in AAD missions.

General. Evaluated by a Mission Commander MDTI or SFTI, or WTI. Emphasize mission planning, fighter integration standards, mutual support, knowledge of air-to-air weapons, timeline awareness, sensor usage, standardized communication, weapons employment, AIC integration, short range radar mechanics, and targeting. Aircraft should be configured with operable CVRS, ALQ-126B/165, ALR-67, CATM-9, TGP, KY-58, CIT, Link 16, JHMCS, and chaff/flare. AIC and 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.

Ground/Academic Training. Aircrew shall complete all FI academic codes prior to completion of this phase of training.

SFI-4501 1.0 365 B,R (NS) S* 4 TOFT

Goal. Conduct a DCA simulator with 4th or 5th generation fighter aircraft against an unknown number of adversaries with EA. Initial events will have a Mission Commander MDTI or SFTI, or WTI evaluating the event.

Requirement

Discuss

- Commit criteria

- Fighter engagement zone management
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Recognition of losing comm.

Introduce

One 20 min fighter integration vulnerability periods

Performance Standards

- Attrite all groups before they become a factor to the defended asset.
- Detect all uncalled groups through fighter sanitization of the DEZ.
- Maintain mutual support.
- Recognize and execute safety valves.
- Recognize and react to losing comm.
- Tactical decision making IAW mission objectives.

Prerequisite. 3405

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare (simulated)

Range Requirements. AA, EXP, MACH 1+, TCTS, L-16 NETWORK

External Syllabus Support. AIC, two or more 4th/5th Gen Fighters, four or more (dissimilar) adversaries.

FI-4502 1.3 365 B,R,M (NS) A 4 FA-18A/C/D 2+ 4TH/5TH Gen vs. 4+ (Dissimilar) Adversaries

Goal. Conduct a DCA flight with 4th or 5th generation fighter aircraft against an unknown number of adversaries with EA. Initial events will have a Mission Commander MDTI or SFTI, or WTI evaluating the event.

Requirement

Discuss

- Commit criteria
- Fighter engagement zone management
- Picture targeting
- Timeline awareness
- Shot doctrine
- Sanitization
- Safety valves
- Recognition of losing comm.

Introduce

One 20 min fighter integration vulnerability periods

Performance Standards

- Attrite all groups before they become a factor to the defended asset.
- Detect all uncalled groups through fighter sanitization of the DEZ.
- Maintain mutual support.
- Recognize and execute safety valves.
- Recognize and react to losing comm.
- Tactical decision making IAW mission objectives.

Prerequisite. 3405

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+, TCTS, L-16 NETWORK

External Syllabus Support. AIC, two or more 4th/5th Gen Fighters, four or more (dissimilar) adversaries, RTO.

2.13.7 NIGHT SYSTEMS LOW ALTITUDE TACTICS (NSLAT) FA-18C/D

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

General

A MAWTS-1 certified NSLATI pilot flight lead is required to fly with non-NSLAT qualified aircrew for NSLAT-4701 through NSLAT-4703 in FA-18C/D aircraft. At the discretion of the commanding officer, NSLAT qualified aircrew may fly any night or night optional event in the T&R with the aid of NVDs. NSLAT 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). After successful completion of NSLAT-4703, the aircrew is eligible to be designated NSLAT qualified by the commanding officer. Aircrew shall be NS-2405 complete and LAT qualified prior to NSLAT training. Consult T&R Program Manual for LAT and NS training policy.

Ground/Academic Training. Aircrew shall complete all NSLAT academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SNSLAT-4701 1.0 * B NS S 1+ TOFT

Goal. Practice low altitude ingress, target acquisition and target attacks at night in the LAT environment.

Requirement.

Introduce

One section low level

Four section attacks on a simulated 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. 2306, 2405, 2603

NSLAT-4702 1.3 * B NS A 2 FA-18C/D

Goal. Introduce night single ship 2D LAT using NVDs. Emphasize LAT procedures using NVDs, communications, and maneuver techniques.

Requirement.

Introduce

Single ship 500' AGL Circuit

Descent to comfort level

Straight and level

Ridgeline crossings

Check/hard/break turns and 2D weaves

Single ship 300' AGL Circuit(s)

Descent to CL

Straight and level

Ridgeline crossings

Check/hard/break turns and 2D weaves

Performance Standards

Know and understand visual illusions associated with NVD usage.

Know and understand mission cross check times.

Prerequisite. 2402, 2602, 4701

Range Requirements. LAT

NSLAT-4703 1.3 365 B,R,M NS A 2 FA-18C/D

Goal. Introduce night section 2D LAT using NVDs.

Requirement

Introduce

- Two ship 500' AGL Circuit
 - Descent to CL
 - Straight and level
 - Turns
 - Ridgeline crossings
 - Night formations
 - Section 2D weave
 - Section attacks
- Two ship 300' AGL Circuit(s)
 - Descent to CL
 - Straight and level
 - Turns
 - Ridgeline crossings
 - Night formations
 - Section 2D weave
 - Section attacks

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. 4702

Ordnance. 6 Mk-76, 40 Chaff, 20 Flare

Range Requirements. LAT, EXP, RAKED RANGE

2.13.8 FORWARD AIR CONTROLLER (AIRBORNE) (FAC(A)) FA-18A/C

Purpose. To develop proficiency in FAC(A).

General:

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. The JFAC(A) MOA can be found on the NIPRNET at [https://mceits.usmc.mil/sites/mawts1/SitePages/JFAC\(A\).aspx](https://mceits.usmc.mil/sites/mawts1/SitePages/JFAC(A).aspx). Aircrew conducting FAC(A) operations shall comply with the policies contained in the most recent version of the JFAC(A) MOA.

Prior to beginning this stage, FA-18A/C pilots shall be designated as a section leader by the commanding officer and be CAS proficient.

Nonqualified aircrew will fly FAC(A)-4801 through FAC(A)-4809 with a MAWTS-1 certified FAC(A)I designated by the commanding officer. 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.

Upon successful completion of FAC(A)-4801 through FAC(A)-4809 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.

A non-qualified FAC(A) aircrew shall 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 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.

FAC(A)-4807 through FAC(A)-4809 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)-4809 check ride executing FAC(A) with multiple elements in a contested environment.

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

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)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 currency period.

Aircrew who have lost the FAC(A) qualification due to exceeding the reflly 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.

The table below depicts the minimum number of controls required to gain initial FAC(A) certification. These requirements have been consolidated in the FAC(A) syllabus. If a required item is not completed on a dedicated event, that item can be conducted on a subsequent event. However, a FAC(A) qualification cannot be awarded without completing all requirements depicted in 4801-4809 to ensure adherence to the JFAC(A) MOA.

JFAC(A) MOA Initial Certification Requirements		
Terminal Attack Control Task	Min Required	Condition
Type 1	3	Live or Dry
Type 2	3	Live, Dry or Simulated
Type 3	3	Live, Dry or Simulated
BOT	4	Live or Dry
BOC	2	Live, Dry or Simulated
FW CAS Aircraft	4	Live or Dry
RW CAS Aircraft	2	Live, Dry or Simulated
LTD/IR Pointer ¹	2	Live or Dry
ISO JTAC	2	Live, Dry or Simulated
ISO Remote Observer	2	Live, Dry or Simulated
Ordnance	4	Live
Contested/Highly Contested	2	Live or Dry
Day	2	Live or Dry
Night	2	Live or Dry
SEAD	2	Live, Dry or Simulated
Urban	2	Live, Dry or Simulated

In order to maintain FAC(A) qualification currency, the FAC(A) crew shall execute a minimum of four CAS Mission Profiles (CMPs) every 12 months. Each CMP will consist of a brief, time on station, and debrief. Multiple times on stations for airborne mid mission tanking evolutions, will consist of multiple CMPs. Two of the CMPs will be flown. The other two CMPs can be conducted in the simulator and are depicted via the maintain codes in the FAC(A) syllabus. The maintain events from the FAC(A) syllabus are sufficient for JFAC(A) MOA annual minimums. The below table describes the Terminal Attack Control/Task and Condition that need to be met in order to maintain currency. Not all the events in the JFAC(A) MOA maintain annual minimums need to be accomplished every year. Only four CMPs as discussed previously are required.

JFAC(A) MOA Maintain Annual Minimums	
Terminal Attack Control Task	Condition
Type 1	Live, Dry or Simulated
Type 2	Live, Dry or Simulated
Type 3	Live, Dry or Simulated
BOT	Live, Dry or Simulated
BOC	Live, Dry or Simulated
FW CAS Aircraft	Live or Dry
RW CAS Aircraft	Live, Dry or Simulated
LTD/IR Pointer ¹	Live, Dry or Simulated
ISO JTAC	Live, Dry or Simulated
ISO Remote Observer	Live, Dry or Simulated
Ordnance	Live
Contested/Highly Contested	Live, Dry or Simulated
Day	Live or Dry
Night	Live or Dry

Escort aircraft that are not flown by a FAC(A)I conducting instruction during a FAC(A) workup will log a AESC-4303 (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. Aircraft should be configured with operable VTR/CVRS, ALR-67, CATM-9, TGP, LST, KY-58, DCS/VMF, Link 16, JHMCS, and chaff/flare.

Ground/Academic Training. Aircrew shall complete all FAC(A) academic codes prior to completion of this phase of training. Refer to MAWTS-1 FA-18 Course Catalog.

SFAC(A)-4801 1.5 365 B,R,M D S 2+ TOFT

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

Requirement

Introduce

- Visual/sensor reconnaissance of three separate targets
- Generate target coordinates with aircraft systems
- Plot targets on gridded imagery/chart
- Prepare target briefs
- Control two Type 1 attacks by FW aircraft using roll-in delivery profiles
- Control two Type 2 attacks by FW aircraft using level and roll-in delivery profiles
- CAS briefs and control procedures
- Authentication procedures
- Laser mark on one target
- LGW guidance to impact
- Provide BDA

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. 6312

SFAC(A)-4802 1.5 * B D S 2+ TOFT

Goal. FAC(A) FW Type 2/3 control procedures with PGM/GP ordnance in an urban environment with a permissive threat.

Requirement

Introduce

Talk-ons

Practice

Visual/sensor reconnaissance of three separate targets

Generate target coordinates with aircraft systems

Plot targets on gridded imagery/chart

Prepare target briefs

Control two Type 2 attacks by FW

Control one Type 3 attacks by FW

CAS briefs and control procedures

Authentication procedures

Provide BDA

Timely, accurate corrections for CAS aircraft

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 4801

FAC(A)-4803 1.3 * B (NS) A/S 1+ FA-18A/C and 1 Escort or 1+ TOFT

Goal. Introduce mortar/artillery airspot and CASEVAC procedures.

Requirement

Discuss

Accurate call-for-fire communications and adjustment procedures

High-threat airspot and FAC(A) positioning to provide redundant mark

Accurate corrections for IDF with simulated weather or overcast at 8K' MSL

CASEVAC procedures

Introduce

Call-for-fire brief

One adjust fire (laser grid) mission

One immediate suppression mission

One SEAD mission

One high threat SEAD mission

Two CASEVAC missions

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Practice

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart

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. 2102

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)-4804 1.3 * B D A 1 FA-18A/C and 1 Escort

Goal. Introduce FAC(A) FW Type 1 control procedures with GP in a medium threat contested environment with a JFO. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation. If no JFO is available, the JFO can be simulated by another crew member.

Requirement

Introduce

JFO integration

Practice

Visual/sensor reconnaissance of three separate targets on a tactical range
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
Control four Type 1 attacks by FW
CAS briefs and control procedures
Authentication procedures
Provide BDA
Timely, accurate corrections for CAS aircraft

Performance Standards

Execute appropriate search, detection, and identification profiles
Correctly use aircraft systems for target coordinate and 9-line generation
Execute FAC(A)/CAS attack profiles appropriate for threat, friendly locations, systems, and environment
Properly position aircraft to evaluate attack geometry
Execute FAC(A) Type 1 control TTPs IAW JCAS using proper terminology

Performance Standards

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

Prerequisite. 4802

Ordnance. Two pods 2.75"/5.0" RP rockets or 12 MK-76, 250 20mm, 40 Chaff, 20 Flare

Range Requirements. RSTD, JCAS, SST, EXP

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

FAC(A)-4805 1.3 365 B,R,M NS A 1 FA-18A/C and 1 Escort

Goal. Introduce FAC(A) FW Type 2 and 3 control procedures with PGMs/IAMs in a permissive threat environment. If a range that permits Type 2 control is not available, Type 2 control may be evaluated with simulated JDAM/LGB deliveries.

Requirement

Introduce

LTD or IR marker

Practice

Visual/sensor reconnaissance of three separate targets on a tactical range
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
LTD and/or IR maker used for correlation on two attacks
Control three Type 2 attacks by FW aircraft
Control three Type 3 attacks by FW aircraft
Two BOC methods of attack
CAS briefs and control procedures
Authentication procedures
Laser mark on one target
LGW guidance to impact
Provide BDA

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 4804

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)-4806 1.3 365 B,R,M (NS) A 1+ FA-18A/C and 1 Escort

Goal. Introduce FAC(A) RW Type 2 and 3 control procedures in a contested environment with JFO integration. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation. Captive Hellfire is acceptable. If no JFO is available, it may be simulated by another flight member or observer.

Requirement

Discuss

Corrections
Limit-of-advance
Threat lookout for RW assets in the target area

Introduce

Appropriate tactics for target illumination if required at night

Practice

Visual/sensor reconnaissance of three separate targets on a tactical range
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
Control two Type 2 attacks by RW aircraft with JFO integration
Control two Type 3 attacks by RW aircraft
CAS briefs and control procedures
Authentication procedures
Marking rounds/talk-on or provide laser designation for Hellfire employment
Two Hellfire controls desired with one incorporating FAC(A) lasing for Hellfire employment
Provide BDA

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 2/3 control TTPs IAW JCAS using proper terminology.

Prerequisite. 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 JFO.

SFAC(A)-4807 1.5 * B (NS) S 2+ TOFT

Goal. Practice FAC(A) multi-element and supporting arms integration in a contested environment. Contested environment should be a minimum of two of the following: GPS denial, Link 16 denial, and/or comm degradation.

Requirement

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Introduce

Integrated attacks utilizing two or more elements

Practice

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 4806

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

SFAC(A)-4808 1.5 365 B,R,M NS S 2+ TOFT

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

Requirement

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Review

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Integrated attacks utilizing three or more elements
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 4807

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)-4809 1.3 365 B,R,M (NS) A 1+ FA-18A/C and 1 Escort

Goal. Practice FAC(A) multi-element and supporting arms integration. This evaluation sortie should be flown in a MAGTF level exercise if possible. SEAD mission can be simulated as one of the required elements. However, two SEAD missions are required if the 3803 was conducted in the simulator in order to meet the JFAC(A) MOA mins for certification.

Requirement

Discuss

FW/RW/UAS integration
Sectored or combined (simultaneous or sequential) attack
CAS/IDF integration and deconfliction

Evaluate

Visual/sensor reconnaissance of targets

Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Integrated attacks utilizing three or more elements
Two SEAD missions
CAS briefs and control procedures
Authentication procedures
Provide BDA

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. 4808

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.

FAC(A)-4810 1.3 * B D A 1 FA-18D and 1 Escort

Goal. Introduce FAC(A) adverse weather procedures in an elevated-threat (restrictive) environment. Simulated weather is overcast at 8K'. This flight may be flown at night once it has been successfully completed during the daytime. Four controls required for completion.

Requirement.

Discuss

Accurate call-for-fire communications and adjustment procedures
High-threat airspot and FAC(A) positioning to provide redundant mark
Corrections for IDF with weather
Altitude or lateral de-confliction of fires effects for standard SEAD templates

Evaluate

Visual/sensor reconnaissance of targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Two SEAD missions
CAS briefs and control procedures
Provide BDA
Type 1 pop-up attacks and two Type 2 standoff attacks for FW CAS aircraft
Deliver or coordinate marking/suppression rounds on target

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. 6207

Ordnance. 2 pods 2.75"/5.0" RP rockets or 4 Mk-82/83, 20 Chaff, 40 Flare

Range Requirements. MOA, JCAS, EXP

External Syllabus Support. One/two FW CAS elements, one IDF asset and a JTAC. IDF asset requires 10 HE rds, 4 WP rds.

FAC(A)-4811 1.3 * B (NS) A 1 FA-18A/C/D and 1 Escort

Goal. Introduce UAS/UCAV integration. Four controls required for completion.

Requirement.

Discuss

- UAS/UCAV integration for locating, identifying, and relaying target information
- UAS/UCAV integration for providing a laser or IR mark
- UAS/UCAV de-confliction during CAS attacks
- UAS/UCAV pre-planned and hasty ACM requirements
- Multi-element integration with UAS/UCAV
- UAS/UCAV weapons employment considerations (if capable)

Practice

- Visual/sensor reconnaissance of targets
- Generate target coordinates with aircraft systems or UAS/UCAV
- Plot targets on gridded imagery/chart
- Control two Type 2 and two Type 3 attacks utilizing UAS/UCAV integration to provide mark
- CAS briefs and control procedures
- Provide BDA and coordinate with UAS/UCAV to provide BDA

Performance Standards

- Execute appropriate search, detection, and identification profiles.
- Correctly use aircraft systems or UAS/UCAV for target coordinate and 9-line generation.
- Integrate and de-conflict UAS/UCAV assets during CAS attacks
- 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. 6207

Ordnance. 20 Chaff, 40 Flare

Range Requirements. MOA, JCAS, EXP

External Syllabus Support. UAS/UCAV asset, FW or RW assets with LGWs, and a JTAC or FO.

FAC(A)-4812 1.3 * B (NS) A/S 1 FA-18A/C/D and 1 Escort

Goal. Introduce Naval Surface Fire Support airspot TTPs.

Requirement.

Discuss

- NSFS call-for-fire communications and adjustment procedures
- Adjust fire (laser grid if capable)

Introduce

- NSFS

Practice

- Visual/sensor reconnaissance of three separate targets
- Generate target coordinates with aircraft systems
- Plot targets on gridded imagery/chart

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NSFS SEAD missions
NSFS adjust fire 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. 6207

Ordnance. 20 Chaff, 40 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)-4813 1.3 * B (NS) A/S 1 FA-18A/C/D and 1 Escort

Goal. Introduce FAC(A) AC-130 Call For Fire procedures. Three missions required for completion.

Requirement.

Discuss

AC-130 call-for-fire communications and adjustment procedures

Introduce

AC-130 CFF and de-confliction

Practice

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
AC-130 CFF missions

Performance Standards

Execute appropriate search, detection, and identification profiles.
Correctly use aircraft systems for target coordinate and call-for-fire brief generation.
Employ proper communication format with the AC-130.

Prerequisite. 6207

Ordnance. 20 Chaff, 40 Flare

Range Requirements. MOA, JCAS, EXP

External Syllabus Support. One AC-130 and a JTAC

2.13.9 EXPEDITIONARY SHORE BASED OPERATIONS (EXP) FA-18 A/C/D

Purpose. To develop proficiency in landing, departing, and operating at expeditionary airfields.

General. Evaluated by an FAI. Expeditionary qualification provides the aircrew with the required knowledge and experience to land, depart, and operate at an expeditionary airfield safely. Expeditionary airfields are defined as airfields that have runway lengths less than what is required per SOPs and/or constructed from expeditionary materials.

Ground/Academic Training. Aircrew shall have a course rules brief for the particular airfield before initiating the expeditionary airfield qualification.

SEXP-4901 1.0 * B D S 1+ TOFT

Goal. Practice operations at an expeditionary airfield during day conditions with expected configuration

requirements.

Requirement.

Discuss

Emergencies to include takeoff aborts, single engine considerations, etc

Practice

Three takeoffs, three landings, and three approaches with the use of local nav aids such as

ATNAVICs

Pattern procedures during VMC conditions

Day arrested landings

Performance Standards

Successfully takeoff from an expeditionary airfield.

Execute a successful instrument approach to an expeditionary airfield.

Successfully land via normal landing and arrestments at an expeditionary airfield.

Prerequisite. 2102

SEXP-4902 1.0 365 B,R,M N S 1+ TOFT

Goal. Practice operations at an expeditionary airfield during night conditions with expected configuration requirements.

Requirement.

Discuss

Emergencies to include takeoff aborts, single engine considerations, etc during night conditions

Practice

Three takeoffs, three landings, and three approaches with the use of local nav aids such as

ATNAVICs

Pattern procedures during night VMC conditions

Night arrested landings

Performance Standards

Successfully takeoff from an expeditionary airfield at night.

Execute a successful instrument approach to an expeditionary airfield at night.

Successfully land via normal landing and arrestments at an expeditionary airfield at night.

Prerequisite. 4901

EXP-6736 1.3 * B (N) A 1+ FA-18A/C/D

Goal. Execute operations at an expeditionary airfield during day or night conditions.

Requirement.

Practice

Takeoff and Land from an Expeditionary Airfield (SELF)

Performance Standards

Successfully takeoff from an expeditionary airfield.

Successfully land at an expeditionary airfield.

Prerequisite. 2102, 4901, 4902~N

2.14 INSTRUCTOR TRAINING PHASE

2.14.1 Instructor and Standardization Training. Training shall be conducted in accordance with the MAWTS-1 FA-18 Course Catalog. Work-up events are included in the LATI, NSI, NSLATI and FAI instructor syllabi. The certification events are annotated with the certification.

Phase Overview

FA-18 INSTRUCTOR TRAINING (5000 PHASE)		
STAGE	PARAGRAPH	PAGE NUMBER
LOW ALTITUDE TACTICS INSTRUCTOR (LATI)	2.15.1	2-148
NIGHT SYSTEMS LOW ALTITUDE TACTICS INSTRUCTOR (NSLATI)	2.15.2	2-148
FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR [FAC(A)]	2.15.3	2-148
FIGHTER ATTACK INSTRUCTOR (FAI)	2.15.4	2-148
FLIGHT LEAD STANDARDIZATION EVALUATOR (FLSE)	2.15.5	2-148
NIGHT SYSTEMS INSTRUCTOR (NSI)	2.15.6	2-148
TACTICAL AIR COORDINATOR (AIRBORNE) INSTRUCTOR [TAC(A)]	2.15.7	2-149

2.15 INSTRUCTOR TRAINING STAGES

2.15.1 LOW ALTITUDE TACTICS INSTRUCTOR (LATI)

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.

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.

2.15.2 NIGHT SYSTEM LOW ALTITUDE TACTICS INSTRUCTOR (NSLATI)

Purpose. To certify a FA-18 pilot as an instructor capable of safely conducting ground and airborne instruction of the FA-18 night systems LAT flight syllabus.

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 NSLATI POI requirements.

2.15.3 FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR (FAC(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.

General. Reference the MAWTS-1 FA-18 Course Catalog for all FAC(A)I requirements.

2.15.4 FIGHTER ATTACK INSTRUCTOR (FAI)

Purpose. To certify a FA-18 pilot or WSO as an instructor capable of safely conducting specific air-to-air and air-to-ground Core Skills and Mission Skills resident in the 2000 and 3000 phases.

General. Reference the MAWTS-1 FA-18 course catalog for all FAI requirements.

2.15.5 FLIGHT LEAD STANDARDIZATION EVALUATOR (FLSE)

Purpose. To certify FA-18 aircrew capable of safely and tactically evaluating specific FA-18 events throughout the section and division flight leadership syllabi. Aircrew must be nominated by Squadron COs and will 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.

General. Prior to beginning the FLSE-5600 stage, aircrew shall be a WTI or at least one of the following who completes the FLSE period of instruction: Strike Fighter Tactics Instructor (SFTI), Marine Division Tactics Instructor (MDTI), or a designated Mission Commander. Reference the MAWTS-1 FA-18 Course Catalog for all FLSE POI requirements. After completing the POI, aircrew may be nominated by Squadron COs, then designated

FLSEs by the MAG CO. FLSE pilots or WSOs can evaluate any FLSE event in the section leader and division leader syllabi. FLSEs will retain their designations at the direction of the MAG CO. Former USN TOPGUN Instructors may evaluate FLSE events IAW the USMC FA-18 TACSOP for TAI squadrons attached to the CVW and are not subject to the POI.

2.15.6 Night System Instructor (NSI)

Purpose. To certify a FA-18 pilot as an instructor capable of safely conducting ground and airborne instruction of the FA-18 night systems flight syllabus.

General. Aircrew shall be properly designated and current prior to beginning this stage of training. Reference the MAWTS-1 FA-18 Course Catalog for all NSI POI requirements.

2.15.7 TACTICAL AIR COORDINATOR (AIRBORNE) INSTRUCTOR (TAC(A)I)

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.

General. Reference the MAWTS-1 FA-18 Course Catalog for all TAC(A)I POI requirements.

2.16 FRS INSTRUCTOR TRAINING PHASE

2.16.1 FRS INSTRUCTOR (FRSI) / CONTRACT INSTRUCTOR (CI)

Purpose. To provide an Instructor Under Training (IUT) program of instruction to qualify and standardize VMFAT-101 FRS syllabus stage instructors for Core Introduction training to replacement aircrew.

General. FRSIs will be designated to instruct flights and simulators in the stages that they complete IUT events for. FRS CIs will be designated to instruct simulator stages that they complete IUT events for. All IUT events will be instructed and evaluated by designated stage Standardization Instructors. Standardization Instructors shall be recommended by the Standardization Board and designated by the VMFAT-101 CO based upon requisite experience and instructional expertise. The goal of IUT events is to capture RAC common errors, provide instructional techniques for briefing and debriefing to a CAT I RAC, event specific and stage standardization, currency and/or SOP requirements, coordination requirements, and grading expectations. Minimum requirement for a FRSI to begin IUT is designation as a Division Lead.

IUT Overview. IUT events shall be completed sequentially within stages. Stage pre-requisites shall be completed before starting new IUT stages. IUT events that execute the conduct of 1000 level RAC events will brief and train to all of the 1000 level T&R code requirements and additional requirements specified in the 5000 level IUT code. Assignment of FRSIs to respective stages is at the discretion of the VMFAT-101 CO.

Phase Overview

FA-18 FRS INSTRUCTOR TRAINING (5000 PHASE)		
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2.16.2 TRANSITION INSTRUCTOR (TSNI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of FA-18 FAM, FRM, and AWI stages, as well as events within the N/NSF stage for RAC.

General. TSNI shall be completed prior to any other IUT stages and prior to flight with RAC in the aircraft. This stage includes designation as a FRS Operations Duty Officer and includes designation as an Adversary aircrew for all RAC stages other than BFM. This stage will be instructed and evaluated by a TSN Stan I.

ATSNI-5801 0.5 * B G

Goal. IUT Indoctrination. Introduce the IUT to the FRSI syllabus, RAC syllabi, and IUT expectations. The transition phase includes the FAM, FRM, and AWI stages.

Instructor. TSN STAN I or CI STAN I

Prerequisites. B: 6407

ATSNI-5802 1.0 * B G

Goal. Course Rules. Provide a course rules brief for aircrew that executed PCS orders.

Requirements

Discuss

Course Rules

Instructor. Any Instructor

Prerequisites. B: 5801

AODO-5803 1.0 * B G

Goal. ODO Familiarization (Shadow). Introduce the IUT to FRS ODO procedures and considerations.

Requirements

Discuss

Flight schedule execution
Electronic flight schedule

Instructor. TSNI

Prerequisites. B: 5802

AODO-5804 1.0 * B G

Goal. ODO Check (NATOPS Check/Emergency Procedures). Introduce the IUT to FRS ODO procedures and considerations. The IUT will act as the ODO during emergencies presented to RAC. This event should be conducted in conjunction with RAC event SFAM-1023 or 1024.

Requirements

Evaluate
ODO procedures

Performance Standards

Effective analysis of emergencies
Provides effective two-way communications with emergency aircraft
Provides effective recommendations to emergency aircraft
Effective crew resource management

Instructor. TSNI

Prerequisites. B: 5803

ATSNI-5805 0.5 * B G

Goal. Transition Phase Indoctrination. Introduce the IUT to the transition phase including the FAM, FRM, and AWI stages, as well as events within the N/NSF stage.

Instructor. TSN STAN I

Prerequisites. B: 5802

AFAM-5806 1.0 * B G

Goal. Observe Fam Brief. Introduce the IUT to FAM brief requirements. This event will be conducted in conjunction with RAC event FAM-1014 or 1018.

Instructor. TSN STAN I

Prerequisites. B: 5805

ATSNI-5807 0.5 * B G

Goal. WSO Transition Brief. Introduce the IUT to the transition phase RWSO training objectives and TCC expectations.

Instructor. TSN STAN I

Prerequisites. B: 5805

LFAMI-5808 1.5 * B LAB

Goal. Brief Day Aerobatics. Demonstrate proficiency in briefing and teaching day aerobatics. The IUT will brief the conduct of RAC event FAM-1014.

Requirements

Discuss
Briefing items IAW VMFAT-101 FSG

Instructor. TSN STAN I

Prerequisites. B: 5806

SFAMI-5809 1.0 * B D S 1 TOFT

Goal. Introduction to TSN Crew Coordination. Introduce FA-18A/C pilots to TSN crew coordination requirements and expectations. The instructor will brief the event and the IUT will fly. This event will execute the conduct of

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RAC event FAM-1014.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

TCC

Performance Standards

Conduct all requirements IAW the VMFAT-101 FSG
Execute flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS
Instrument Flight Manual, and training rules
Comply with course rules
Adhere to USMC FA-18 ADMIN SOP
Effective TCC

Instructor. TSNI WSO

Prerequisites. B: 5807

FAMI-5810 1.0 * B D A 1 FA-18D

Goal. Introduction to Rear Seat FAM. Introduce FAM stage learning objectives and conduct. The IUT will execute this event in the rear seat of a two-stick configured aircraft. This event will execute the conduct of RAC event FAM-1014. Rear seat landings are required for completion.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Preflight / cockpit set up procedures
Start procedures
Departure procedures
Aerobatics
Single engine procedures
VFR recovery
FCLP pattern
Rear seat landings
Roll & Go
Shutdown procedures

Performance Standards

Safe landings from the rear seat

Instructor. TSN STAN I

Prerequisites. B: 5809

Range Requirements. MOA

FRMI-5811 1.6 * B D A 3+ FA-18A/C/D

Goal. FRM IUT (Dash 3). Introduce FRM stage learning objectives and conduct from the dash 3 position. This event will be flown in conjunction with RAC event FRM-1102 or 1103.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Running rendezvous
VFR/IFR parade position
Parade position in fingertip and echelon formation
Section cross under
Cruise position
Break-up and rendezvous
TACAN rendezvous
VFR break as wing

Instructor. TSN STAN I

Prerequisites. B: 5810

Range Requirements. MOA

LAWII-5812 1.5 * B LAB

Goal. Brief FQ Int and Stern Conversion II. Demonstrate proficiency in briefing and teaching forward quarter intercepts and stern conversions. The IUT will brief the conduct of RAC event AWI-1208.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. TSN STAN I

Prerequisites. B: 5808

AADV-5813 0.5 * B G

Goal. Red Air Indoctrination. Introduce the IUT to red air requirements and conduct for RAC events. Emphasis is placed on RAC common errors, coordination requirements, and event specific presentations.

Instructor. AA STAN I

Prerequisites. B: 5801

2.14.3 AIR TO SURFACE INSTRUCTOR (ASI)

2.14.3.1 Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 AS stage and events within the FTN stage for RAC.

2.14.3.2 General. ASI shall begin after completion of the TSNI IUT stage. This stage includes air to surface basics and precision guided munitions. This stage will be instructed and evaluated by an AS Stan I.

AASI-5814 0.5 * B G

Goal. Air-to-Ground Phase Indoctrination. Introduce the IUT to the A/G phase including AS, CAS, SCAR, FAC(A), and LAT stages.

Instructor. AS STAN I

Prerequisites. B: 5813

AASI-5815 0.5 * B G

Goal. WSO A/G Brief. Introduce the IUT to AS specific TCC and RWSO training objectives.

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Instructor. AS STAN IWSO

Prerequisites. B: 5814

ASI-5816 1.3 * B D A 3+ FA-18A/C/D

Goal. Dive Deliveries IUT (Dash 3). Introduce AS dive deliveries from the dash 3 position. This event will be flown in conjunction with RAC event AS-1305 or 1306.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

SMS indications and programming for GP ordnance
Medium angle Auto mode dive delivery
Cockpit task management during dive deliveries
Bombing pattern procedures (comm, lookout, interval)

Performance Standards

Provide effective flight leadership and direction
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

Instructor. AS STAN I

Prerequisites. B: 5814~W, 5815~P

Ordinance. 12 Mk 76, 20 Chaff, 40 Flare

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

LASI-5817 1.5 * B LAB

Goal. Brief Medium Angle Dive Deliveries. Demonstrate proficiency in briefing and teaching medium angle dive deliveries. The IUT will brief the conduct of RAC event AS-1305.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. AS STAN I

Prerequisites. B: 5816

ASI-5818 1.3 * B D A 2 FA-18A/C/D

Goal. Lead Section Pop Attacks. Demonstrate proficiency in briefing, instructing, executing, and debriefing a section pop attacks flight. This event will execute the conduct of RAC event AS-1312.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

A/S checklist

Section low drag pop attacks
Shift attacks
Bunt strafe deliveries
Expendables usage

Performance Standards

Provide effective flight leadership and direction
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 awareness of wingman's delivery parameters
Draw valid learning points

Instructor. AS STAN I

Prerequisites. B: 5817

Ordnance. 6 Mk 76, 250 20-mm, 20 Chaff, 40 Flare

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

LASI-5819 1.5 * B LAB

Goal. Brief LJDAM Employment. Demonstrate proficiency in briefing and teaching LJDAM employment considerations. The IUT will brief the conduct of RAC event AS-1318.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. AS STAN I

Prerequisites. B: 5814

2.16.4 CLOSE AIR SUPPORT INSTRUCTOR (CASI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 CAS stage for RAC.

General. CASI shall begin after completion of the ASI IUT stage. This stage includes RAC events for CAS and SCAR. This stage will be instructed and evaluated by a CAS Stan I.

ACASI-5820 1.0 * B G

Goal. CAS IUT Indoctrination. Introduce the IUT to CAS stage learning objectives and conduct.

Instructor. CAS STAN I

Prerequisites. B: 5819

SCASI-5821 1.0 * B D S 1 TOFT

Goal. CAS IUT Introduction. Demonstrate proficiency in briefing, instructing, executing, and debriefing CAS procedures in a low threat environment. This event will execute the conduct of RAC event SCAS-1340.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Delivery mechanics
Standardized CAS comm

Performance Standards

Comply with CAS TTPs
Comply with tactical abort parameters
Adhere to WASP delivery parameters and TACSOP valid delivery criteria
TOT +/- 15 secs
Use effective communication IAW CAS procedures to establish effective two-way information flow between ground units and CAS section
Draw valid learning points

Instructor. CAS STAN I

Prerequisites. B: 5820

SCASI-5822 1.0 * B D S 1 TOFT

Goal. Mark Integration. Introduce the IUT to mark integration for low, medium, and high threat CAS events.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Delivery mechanics
Standardized CAS comm

Performance Standards

Comply with CAS TTPs
Perform the proper system set up IAW TACSOP recommendations
Comply with tactical abort parameters
Adhere to WASP delivery parameters and TACSOP valid delivery criteria
TOT +/- 15 secs
Use effective communication IAW CAS procedures to establish effective two-way information flow between ground units and CAS section

Instructor. CAS STAN I

Prerequisites. B: 5821

CASI-5823 1.5 * B D A 2 FA-18D

Goal. Lead CAS Introduction. The IUT will execute this event from the lead aircraft with the instructor evaluating from the RAC wing aircraft. This event will be flown in conjunction with RAC event CAS-1343.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Attacks under Type 1 terminal attack control (low-drag, medium altitude dive delivery)
CAS procedures with Type 1 terminal attack control
CAS page utilization
CAS timing and auto SEQ navigation
Target correlation
Delivery mechanics
Standardized CAS comm

Performance Standards

Provide effective flight leadership and direction
Comply with CAS TTPs
Perform the proper system set up IAW TACSOP recommendations
Comply with tactical abort parameters
Adhere to WASP delivery parameters and TACSOP valid delivery criteria
TOT +/- 15 secs
Use effective communication IAW CAS procedures to establish effective two-way information flow between ground units and CAS section
Draw valid learning points

Instructor. CAS STAN I

Prerequisites. B: 5821~W, 5822~P

Ordnance. 4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

External Syllabus Support. FAC(A) or JTAC

ASCARI-5824 1.5 * B G

Goal. Observe Introduction to AR Brief. Introduce the IUT to the SCAR stage and AR events. The IUT will observe the flight brief in conjunction with RAC event AR-1351.

Instructor. CAS STAN I

Prerequisites. B: 5823

2.16.5 FRS FORWARD AIR CONTROLLER (AIRBORNE) INSTRUCTOR (FFAC(A)I)

Purpose. To designate a FA-18 FAC(A) qualified pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 FAC(A) stage for RWSOs.

General. FFAC(A)I shall begin after completion of the CAS IUT. Designation as a fleet qualified FAC(A) is a prerequisite for this IUT stage. The IUT will observe all RWSO academic lectures for the FAC(A) stage, AFAC(A) 0360 – 0363 prior to the events listed below. This stage will be instructed and evaluated by a FFAC(A) Stan I.

AFFAC(A)I-5825 2.0 * B G

Goal. Observe FAC(A) Demo Brief. Introduce the IUT to the FAC(A) stage. The IUT will observe the brief in conjunction with RWSO event AFAC(A)-0364.

Instructor. FFAC(A) STAN I

Prerequisites. B: 5823, 6207

SFFAC(A)I-5826 1.5 * B D S 2 TOFT

Goal. Lead FAC(A) Medium Threat. Introduce the IUT pilot to FAC(A) instruction. The IUT will lead this event in conjunction with RWSO event SFAC(A)-1360. The instructor will brief this event and control from the MOC.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Visual/sensor reconnaissance of three separate targets
Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Control Type 1 attacks
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards

Develop gameplan appropriate for RAC training objectives
Execute appropriate search, detection, and identification profiles to include target coordinate generation and refinement
Correctly use aircraft systems for target coordinate and 9-line generation
Execute FAC(A) control TTPs per the CAS pub using proper terminology
Debrief analyzes FAC(A) execution, identifies trends, and makes corrective recommendations

Instructor. FFAC(A) STAN I

Prerequisites. B: 5825

SFFAC(A)I-5827 1.5 * B D S 2 TOFT

Goal. Brief and Control (MOC) FAC(A) Medium Threat. Demonstrate proficiency in briefing, instructing, and debriefing FAC(A) procedures in a medium threat environment. The IUT WSO will brief and control this event from the MOC in conjunction with RAC event SFAC(A)-1360. The instructor will fly the event or monitor from the MOC.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Performance Standards

Develop scenario appropriate for RAC training objectives
Debrief analyzes FAC(A) execution, identifies trends, and makes corrective recommendations

Instructor. FFAC(A) STAN I

Prerequisites. B: 5825

FFAC(A)I-5828 1.5 * B D A 2+ FA-18D

Goal. FAC(A) Check. Demonstrate proficiency in briefing, instructing, executing, and debriefing FAC(A) procedures. The IUT will brief and fly this event as a FA-18 FAC(A) in conjunction with any RAC CAS flight.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Visual/sensor reconnaissance of targets

Generate target coordinates with aircraft systems
Plot targets on gridded imagery/chart
Prepare target briefs
CAS briefs and control procedures
Timely, accurate corrections for CAS aircraft
Provide BDA
FAC(A) TCC

Performance Standards

Develop gameplan appropriate for RAC training objectives
Execute appropriate search, detection, and identification profiles to include target coordinate generation and refinement
Correctly use aircraft systems for target coordinate and 9-line generation
Execute FAC(A) control TTPs per the CAS pub using proper terminology
Debrief analyzes FAC(A) execution, identifies trends, and makes corrective recommendations

Instructor. FAC(A) STAN I

Prerequisites. B: 5826~P, 5827~W

Ordinance. 6 Mk 76, 20 Chaff, 40 Flare

Range Requirements. JCAS, EXP

2.16.6 FRS LOW ALTITUDE TACTICS INSTRUCTOR (FLATI)

Purpose. To designate a FA-18 pilot as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 LAT stage and LAT events within the FTN stage for RAC.

General. FLATI shall begin after completion of the AS IUT. Aircrew shall be designated as a LATI and current prior to beginning this IUT stage. All IUT events will be instructed and evaluated by a FLAT Stan I.

AFLATI-5829 0.5 * B G

Goal. LAT IUT Indoctrination. Introduce the IUT to the LAT stage learning objectives and conduct.

Instructor. FLATI STAN I

Prerequisites. B: 5104, 5819

SFLATI-5830 1.0 * B D S 1 TOFT

Goal. Rear Seat LAT Introduction. Brief and execute a LAT simulator event from the rear seat. The instructor will fly from the front seat. Demonstrate comprehensive knowledge and understanding of LAT terminology and concepts, maneuver specifics, and LAT rules of conduct (ROC). This event will execute the conduct of RAC event LAT-1403.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Rear seat LAT

Performance Standards

Brief IAW LAT ROC / LAT Stan notes, ADMIN SOP, and TACSOP
LAT execution adheres to LAT ROC
Recognizes and corrects deviations from LAT ROC
Debrief analyzes LAT execution, identifies trends, and makes corrective recommendations

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Instructor. FLATI STAN I

Prerequisites. B: 5829

FLATI-5831 1.3 * B D A 1 FA-18D

Goal. Rear Seat LAT Introduction. Introduce LAT conduct and instruction from the rear seat. The flight will be briefed by the IUT. The instructor will fly from the front seat. This event will execute the conduct of RAC event LAT-1406.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Introduce

Rear seat LAT

Performance Standards

Brief IAW LAT ROC / LAT Stan notes, ADMIN SOP, and TACSOP

LAT execution adheres to LAT ROC

Recognizes and corrects deviations from LAT ROC

Debrief analyzes LAT execution, identifies trends, and makes corrective recommendations

Instructor. FLATI STAN I

Prerequisites. B: 5830

Range Requirements. LAT

FLATI-5832 1.3 * B D A 2 FA-18A/C/D

Goal. Lead LAT Section Maneuvering. Brief and lead a LAT flight. This event will execute the conduct of RAC event LAT-1408 with the IUT as the lead/chase aircraft.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

LAT chase positioning

Performance Standards

Brief IAW LAT ROC / LAT Stan notes, ADMIN SOP, and TACSOP

LAT execution adheres to LAT ROC

Maintains effective LAT chase position

Recognizes and corrects deviations from LAT ROC

Debrief analyzes LAT execution, identifies trends, and makes corrective recommendations

Instructor. FLATI STAN I

Prerequisites. B: 5831

Range Requirements. LAT

2.16.7 NIGHT SYSTEMS FAMILIARIZATION INSTRUCTOR (NSFI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of FA-18 NS events within the N/NSF and FTN stages for RAC.

General. NSFI shall begin after the completion of the AS IUT. This stage will be instructed and evaluated by a

NSF Stan I.

LNSFI-5833 1.0 * B LAB

Goal. Brief NS Tactical Considerations Brief. This event may be briefed in conjunction with ANSF-0503 to RAC.

Requirements. The IUT will present the MAWTS-1 ASP, FA-18 Night Systems Tactical Considerations lecture.

Performance Standards. Demonstrate comprehensive knowledge in briefing and teaching NS considerations.

Instructor. NSF STAN I

Prerequisites. B: 5819

SNSFI-5834 1.0 * B NS S 1 TOFT

Goal. Observe NVG Familiarization. Introduce the IUT to a NS familiarization simulator event. The IUT will observe the brief in conjunction with RAC event SNSFI-1505.

Instructor. NSF STAN I

Prerequisites. B: 5833

ANSFI-5835 1.0 * B G

Goal. Observe NVG Familiarization/All Weather Intercept Brief. The IUT will observe the brief in conjunction with RAC event NSF-1506.

Instructor. NSF STAN I

Prerequisites. B: 5834

NSFI-5836 1.5 * B NS A 2 FA-18D

Goal. Brief and Observe NVG Familiarization/All Weather Intercept. Demonstrate proficiency in briefing and teaching NS considerations. The IUT will brief RAC event NSF-1506 and observe the flight from the rear seat of the lead aircraft.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. NSF STAN I

Prerequisites. B: 5835

Ordinance. CATM-9, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH 1+

2.16.8 AIR-TO-AIR REFUELING INSTRUCTOR (AARI)

Purpose. To designate a FA-18 pilot as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 AAR stage for RAC.

General. AARI shall begin after the completion of the TSN IUT stage. This stage will be instructed and evaluated by an AAR Stan I.

AARI-5837 1.0 * B (N*) A 1 FA-18D, 1 FA-18A/C/D

Goal. Rear Seat AAR Introduction (Lead). Introduce AAR stage learning objectives and conduct. The IUT will observe this event from the rear seat of the lead aircraft in conjunction with RP event AAR-1601 or 1602.

Instructor. AAR STAN I

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Prerequisites. B: 5813

Range Requirements. AAR

External Syllabus Support. One compatible tactical tanker

2.16.9 AIR-TO-AIR INSTRUCTOR (AAI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 AA stage for RAC.

General. AAI shall begin after the completion of the TSN IUT stage and prior to BFM, OCF, or AAD stages. This stage focuses on the execution of Launch and Decide tactics. This stage will be instructed and evaluated by an AA Stan I.

AAAI-5838 0.5 * B G

Goal. Air to Air Indoctrination. Introduce the IUT to the A/A phase learning objectives and conduct including the AA, BFM, AAD, STK, and OCF stages.

Instructor. AA STAN I

Prerequisites. B: 5813

AAAI-5839 2.5 * B G

Goal. Observe Any CAT I AA Sim. The IUT will observe any CAT I RAC AA sim brief, execution, and debrief with L&D execution.

Instructor. AA STAN I

Prerequisites. B: 5838

SAAI-5840 1.0 * B D S 2 TOFT

Goal. Lead 2v2 Launch and Decide Intercepts II. Demonstrate proficiency in briefing and teaching L&D execution. The instructor will evaluate from the dash 2 position. This event will execute the conduct of RAC event SAA-1705.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

- Mutual support
- Meld mechanics
- Weapons employment
- 2D/3D geometry
- RWR awareness
- Notch mechanics
- Merge mechanics
- VID mechanics
- Merge cleanup
- SRR

Performance Standards

- Provide effective flight leadership and direction
- Maintain mutual support
- Demonstrate proficiency in basic radar mechanics
- Take valid shots
- Execute proper notch and merge mechanics

Debrief analyzes execution, identifies trends, and makes corrective recommendations utilizing BDS

Instructor. AA STAN I

Prerequisites. B: 5839

AAI-5841 1.2 * B D A 1 FA-18D, 1 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 2vX Launch and Decide Flow Desired Rear Seat Introduction. The IUT will observe this event from the rear seat of the lead aircraft. This event will be flown in conjunction with RAC event AA-1716.

Instructor. AA STAN I

Prerequisites. B: 5840

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, MACH1+, TCTS

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

2.16.10 BASIC FIGHTER MANEUVERS INSTRUCTOR (BFMI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 BFM stage for RAC.

General. BFMI shall begin after the completion of the AA IUT stage and prior to the OCF IUT stage. This stage will be instructed and evaluated by a BFM Stan I.

ABFMI-5842 0.5 * B G

Goal. BFM IUT Indoctrination. Introduce the IUT to the BFM stage training objectives and conduct.

Instructor. BFM STAN I

Prerequisites. B: 5841

LBFMI-5843 1.5 * B LAB

Goal. Perch BFM Briefing Lab. Demonstrate proficiency in teaching Offensive and Defensive Perch BFM. The IUT will brief RAC event BFM-1728 with particular emphasis on tac admin setup, safety, standardization, and mission performance at a CAT I level.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. BFM STAN I

Prerequisites. B: 5842

LBFMI-5844 1.5 * B LAB

Goal. HA BFM Briefing Lab. Demonstrate proficiency in teaching High Aspect BFM. The IUT will brief RAC event BFM-1730 with particular emphasis on tac admin setup, safety, standardization, and mission performance at a CAT I level.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. BFM STAN I

NAVMC 3500.50E
27 Oct 20

Prerequisites. B: 5843

LBFMI-5845 1.5 * B LAB

Goal. SEM Briefing Lab. Demonstrate proficiency in teaching VID and Section Engaged Maneuvering. The IUT will brief RAC event BFM-1734 with particular emphasis on safety, standardization, and mission performance at a CAT I level. The IUT will also brief visual set tac admin considerations.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. BFM STAN I

Prerequisites. B: 5844

BFMI-5846 1.0 * B D A 2 FA-18A/C/D

Goal. Perch BFM. Demonstrate proficiency in briefing, executing, and debriefing Offensive and Defensive BFM. Emphasis is placed on flight leadership, tac admin procedures, safety, and recall. The IUT will lead the event and the instructor will fly from the dash 2 position. This event will execute the conduct of RAC event BFM-1728.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Level SSD
9K Offensive BFM set
6K Offensive BFM set
6K Defensive BFM set
3K Defensive BFM set

Performance Standards

Provide effective flight leadership and direction
Execute proper admin and tac admin procedures
Execute safely IAW CNAF-M-3710 and training rules
Take valid shots
Accurately recall/reconstruct using white board/models/PCDS
Draw valid learning points

Instructor. BFM STAN I

Prerequisites. B: 5843

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

BFMI-5847 1.0 * B D A 1 FA-18D, 1 FA-18A/C/D

Goal. Perch BFM Rear Seat Intro. The instructor will brief and lead this event and the IUT will observe from the rear seat of the lead aircraft. This event will be flown in conjunction with any RAC perch BFM flight, BFM-1724 through 1728.

Instructor. BFM STAN I

Prerequisites. B: 5846

NAVMC 3500.50E
27 Oct 20

Prerequisites. B: 5841

AAADI-5850 2.5 * B G

Goal. Observe any CAT I AAD Sim. The IUT will observe any CAT I RAC AAD sim brief, execution, and debrief with L&L execution.

Instructor. AAD STAN I

Prerequisites. B: 5849

LAADI-5851 1.5 * B LAB

Goal. Brief 4vX DCA III. Demonstrate proficiency in briefing a 4vX DCA. The IUT will brief RAC event AAD-1809.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Instructor. AAD STAN I

Prerequisites. B: 5850

SAADI-5852 1.0 * B D S 2 TOFT

Goal. Lead 2v2 Launch and Leave. Demonstrate proficiency in briefing, executing, and debriefing L&L tactics. The IUT will fly this event from the lead position. The instructor will fly from the dash 2 position or monitor from the MOC. This event will execute the conduct of RAC event SAAD-1802.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Mutual support
Radar mechanics
Shot doctrine
Weapons employment
Timeline awareness
Out mechanics
Cold operations checklist
BRAA generation
Re-attack mechanics
Staggerback
Merge mechanics

Performance Standards

Provide effective flight leadership and direction
Execute briefed shot doctrine taking valid shots
Maintain mutual support
Execute proper radar mechanics
Timeline awareness
Accurately recall and reconstruct using BDS
Draw valid learning points

Instructor. AAD STAN I

Prerequisites. B: 5851

SAADI-5853 1.0 * B D S 4 TOFT

Goal. 4vX DCA I (Dash 3). Demonstrate proficiency in executing a 4vX DCA from the dash 3 position. The instructor will brief and fly this event from the lead aircraft. This event may be flown in conjunction with RAC event SAAD-1804.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards

Provide effective flight leadership and direction
Execute briefed picture targeting
Execute briefed shot doctrine taking valid shots
Maintain mutual support
Execute proper radar mechanics
Timeline awareness
Tactical decision making IAW mission objectives

Instructor. AAD STAN I

Prerequisites. B: 5852

SAADI-5854 1.0 * B D S 4 TOFT

Goal. Lead 4vX DCA II. Demonstrate proficiency in briefing, executing, and debriefing a 4vX DCA. The IUT will fly this event from the lead aircraft, the instructor will fly from the dash 3 position or monitor from the MOC. This event may be flown in conjunction with RAC event SAAD-1805.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Mutual support
Radar mechanics
Weapons employment
Timeline awareness
Cold operations checklist
Re-attack mechanics
Merge mechanics

Performance Standards

Provide effective flight leadership and direction
Execute briefed picture targeting
Execute briefed shot doctrine taking valid shots
Maintain mutual support

NAVMC 3500.50E
27 Oct 20

Execute proper radar mechanics
Timeline awareness
Tactical decision making IAW mission objectives
Accurately recall and reconstruct using BDS
Draw valid learning points

Instructor. AAD STAN I

Prerequisites. B: 5853

AADI-5855 1.2 * B D A 1 FA-18D, 3 FA-18A/C/D vs. 2+ (Diss) Adv

Goal. 4vX DCA Rear Seat Introduction. The instructor will brief the event and the IUT will observe and fly in the rear seat of the lead aircraft for any RAC 4vX DCA, AAD-1806 through 1809.

Instructor. AAD STAN I

Prerequisites. B: 5854

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

AADI-5856 1.2 * B D A 4 FA-18A/C/D vs 2+ (Diss) Adv

Goal. 4vX DCA (Dash 3). Demonstrate proficiency in executing a 4vX DCA from the dash 3 position. The instructor will brief and fly this event from the lead aircraft. This event will be flown in conjunction with any RAC 4vX DCA, AAD-1806 through 1809.

Performance Standards

Provide effective flight leadership and direction
Execute briefed picture targeting
Execute briefed shot doctrine taking valid shots
Maintain mutual support
Execute proper radar mechanics
Timeline awareness
Tactical decision making IAW mission objectives

Instructor. AAD STAN I

Prerequisites. B: 5855

Ordnance. CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

2.16.12 STRIKE INSTRUCTOR (STKI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 STK stage for RAC.

General. STKI shall begin after the completion of the AS and AAD IUT stages. This stage will be instructed and evaluated by an STK Stan I.

ASTKI-5857 0.5 * B G

Goal. Strike IUT Indoctrination. Introduce the IUT to the STK stage training objectives and conduct.

Instructor. STK STAN I

Prerequisites. B: 5819, 5856

SSTKI-5858 1.0 * B D S 4 TOFT

Goal. Lead 4vX Strike. Demonstrate proficiency in planning, briefing, executing, and debriefing a 4vX strike. The instructor will fly from the dash 3 position. The event will be flown in conjunction with RAC event SSTK-1820.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Strike route planning

Weaponing a specific target using PGMs

Target acquisition

Attack and destroy a specific target with a high acceptable level of risk

Inbound and outbound targeting

Performance Standards

Provide effective flight leadership and direction

Recognize and react appropriately to both surface-to-air and air-to-air threats

Tactical decision making IAW mission objectives

Take valid shots

Maintain mutual support

Adhere to WASP delivery parameters and TACSOP valid delivery criteria

Deliver weapons on planned DPI

Draw valid learning points

Instructor. STK STAN I

Prerequisites. B: 5857

STKI-5859 1.3 * B D A 4 FA-18A/C/D vs 2+ (Diss) Adv

Goal. 4vX Strike (Dash 3). Demonstrate proficiency in executing a 4vX strike from the dash 3 position. The event will be flown in conjunction with RAC event SSTK-1821.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

Strike route planning

Weaponing a specific target using PGMs

Target acquisition

Attack and destroy a specific target with a high acceptable level of risk

Inbound and outbound targeting

Performance Standards

Provide effective flight leadership and direction

Recognize and react appropriately to both surface-to-air and air-to-air threats

Tactical decision making IAW mission objectives

Take valid shots

Maintain mutual support

Adhere to WASP delivery parameters and TACSOP valid delivery criteria

Deliver weapons on planned DPI

Instructor. STK STAN I

Prerequisites. B: 5858

Ordnance. Simulated Ordnance, CATM-9, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, Two or more (dissimilar) adversaries

2.16.13 OUT OF CONTROL FLIGHT INSTRUCTOR (OCFI)

Purpose. To designate a FA-18 pilot as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 OCF event for RAC.

General. OCFI shall begin after completion of the BFM IUT stage. This stage will be instructed and evaluated by an OCF Stan I. OCF Stan Is shall complete required VX-23 OCF training and receive a recommendation from the VX-23 CO prior to designation by the VMFAT-101 CO.

AOCFI 5860 1.0 * B G

Goal. Out of Control Flight IUT Indoctrination. Introduce the IUT to the OCF event training objectives and conduct.

Instructor. OCF STAN I

Prerequisites. B: 5848

OCFI-5861 1.0 * B D A 1 FA-18D

Goal. OCF Introduction. Introduce the IUT to OCF instruction and flight conduct execution. The IUT will fly this event from the front seat with the instructor in the rear seat. This event will execute the conduct of RAC event OCF-1721.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

High AOA maneuvering

Vertical departures

Upright sustained spins

Performance Standards

Execute appropriate procedures for high AOA maneuvering

Execute appropriate procedures for vertical departures

Execute appropriate procedures for upright sustained spins

Execute OCF immediate action procedures

Instructor. OCF STAN I

Prerequisites. B: 5860

Range Requirements. AA

OCFI-5862 1.0 * B D A 1 FA-18D

Goal. OCF Check. Demonstrate OCF instruction and flight conduct execution. The IUT will fly this event from the rear seat with the instructor in the front seat. This event will execute the conduct of RAC event OCF-1721.

Requirements

Discuss

Briefing items IAW VMFAT-101 FSG

Evaluate

High AOA maneuvering instruction
Vertical departure instruction
Upright sustained spins instruction

Performance Standards

Execute appropriate instruction for high AOA maneuvering
Execute appropriate instruction for vertical departure
Execute appropriate instruction for upright sustained spins entry
Effectively monitor OCF immediate action procedures

Instructor. OCF STAN I

Prerequisites. B: 5861

Range Requirements. AA

2.16.14 FLEET TRANSITION INSTRUCTOR (FTNI)

Purpose. To designate a FA-18 pilot or WSO as an instructor capable of effectively conducting ground and airborne instruction of the FA-18 FTN stage for RAC.

General. FTNI shall begin after the completion of the TSN IUT stage. This stage will be instructed and evaluated by a FTN Stan I.

AFTNI-5863 0.5 * B G

Goal. FTN IUT Indoctrination. Introduce the IUT to the FTN Phase training objectives and conduct.

Instructor. FTN STAN I

Prerequisites. B: 5813

AFTNI-5864 1.0 * B G

Goal. Observe Cross Country Planning Lab. The IUT will observe RAC event LFTN-0911.

Instructor. FTN STAN I

Prerequisites. B: 5864

2.16.15 CONTRACT INSTRUCTOR (CI)

Purpose. To designate a contractor as a Contract Instructor capable of effectively conducting ground and airborne instruction of applicable FA-18 stages for RAC.

General. Contract Instructor events will be evaluated by a Contract Instructor Standardization Instructor (CI STAN I). To obtain stage qualifications a Contract Instructor Under Training (CIUT) will perform, observe, and instruct events within applicable stages as standalone training or in conjunction with RAC events. At the direction of the CI STAN I, additional lectures, briefs, or events may be required to obtain stage qualifications. At the recommendation of the CI STAN I and approval from VMFAT-101 CO, specific events may be waived based on CI prior qualifications and experience.

ACI-5870 1.0 * B G

Goal. CI Indoctrination. Introduce the contractor to the CI syllabus.

Instructor. CI STAN I

Prerequisites. B: 5801

SFAMCI-5871 1.0 * B D S 1 TOFT

Goal. FAM CI Perform. Demonstrate proficiency in normal operations and emergency procedures. This event will execute the conduct of any RAC event SFAM-1004 through 1010.

Instructor. CI STAN I

Prerequisites. B: 5870

AFAMCI-5872 1.0 * B G

Goal. FAM CI Observe. Observe brief, execution, and debrief of a FAM event. The CIUT will observe in conjunction with any RAC event SFAM-1004 through 1010.

Instructor. CI STAN I

Prerequisites. B: 5871

AFAMCI-5873 1.0 * B G

Goal. FAM CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing a FAM event. This event may be executed in conjunction with any RAC event SFAM-1004 through 1010.

Instructor. CI STAN I

Prerequisites. B: 5872

SAWICI-5874 1.0 * B D S 1 TOFT

Goal. AWI CI Perform. Demonstrate proficiency in AWI procedures. This event may execute the conduct of any RAC event SAWI-1201 through 1206.

Instructor. CI STAN I

Prerequisites. B: 5873

AAWICI-5875 1.0 * B G

Goal. AWI CI Observe. Observe brief, execution, and debrief of an AWI event. The CIUT may observe in conjunction with any RAC event SFAM-1004 through 1010.

Instructor. CI STAN I

Prerequisites. B: 5874

AAWICI-5876 1.0 * B G

Goal. AWI CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing an AWI event. This event may be executed in conjunction with any RAC event SFAM-1004 through 1010.

Instructor. CI STAN I

Prerequisites. B: 5875

SASCI-5877 1.0 * B D S 2 TOFT

Goal. AS CI Perform. Demonstrate proficiency in AS procedures. This event may execute the conduct of any RAC event SAS-1301 through 1304, 1309, or 1310.

Instructor. CI STAN I

Prerequisites. B: 5876

AASCI-5878 1.0 * B G

Goal. AS CI Observe. Observe brief, execution, and debrief of an AS event. The CIUT may observe in

conjunction with any RAC event SAS-1301 through 1304, 1309, or 1310.

Instructor. CI STAN I

Prerequisites. B: 5877

AASCI-5879 1.0 * B G

Goal. AS CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing an AS event. This event may be executed in conjunction with any RAC event SAS-1301 through 1304, 1309, or 1310.

Instructor. CI STAN I

Prerequisites. B: 5878

SLATCI-5880 1.0 * B D S 1 TOFT

Goal. LAT CI Perform. Demonstrate proficiency in LAT procedures. This event may execute the conduct of RAC event SLAT-1403 or 1404.

Instructor. CI STAN I

Prerequisites. B: 5879

ALATCI-5881 1.0 * B G

Goal. LAT CI Observe. Observe brief, execution, and debrief of a LAT event. The CIUT may observe in conjunction with any RAC event SLAT-1403 through 1405.

Instructor. CI STAN I

Prerequisites. B: 5880

ALATCI-5882 1.0 * B G

Goal. LAT CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing a LAT event. This event may be executed in conjunction with any RAC event SLAT-1403 through 1405.

Instructor. CI STAN I

Prerequisites. B: 5881

SPGMCI-5883 1.0 * B D S 1 TOFT

Goal. PGM CI Perform. Demonstrate proficiency in PGM procedures. This event may execute the conduct of RAC event SAS-1314 or 1315.

Instructor. CI STAN I

Prerequisites. B: 5879

APGMCI-5884 1.0 * B G

Goal. PGM CI Observe. Observe brief, execution, and debrief of a PGM event. The CIUT may observe in conjunction with RAC event SAS-1314 or 1315.

Instructor. CI STAN I

Prerequisites. B: 5883

APGMCI-5885 1.0 * B G

Goal. PGM CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing a PGM event. This event may be executed in conjunction with RAC event SAS-1314 or 1315.

Instructor. CI STAN I

NAVMC 3500.50E
27 Oct 20

Prerequisites. B: 5884

SCASCI-5886 1.0 * B D S 2 TOFT

Goal. CAS CI Perform. Demonstrate proficiency in CAS procedures. This event may execute the conduct of any RAC event SCAS-1340 through 1342.

Instructor. CI STAN I

Prerequisites. B: 5885

ACASCI-5887 1.0 * B G

Goal. CAS CI Observe. Observe brief, execution, and debrief of a CAS event. The CIUT may observe in conjunction with any RAC event SCAS-1340 through 1342.

Instructor. CI STAN I

Prerequisites. B: 5886

ACASCI-5888 1.0 * B G

Goal. CAS CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing a CAS event. This event may be executed in conjunction with any RAC event SCAS-1340 through 1342.

Instructor. CI STAN I

Prerequisites. B: 5887

SAACI-5889 1.0 * B D S 2 TOFT

Goal. AA CI Perform. Demonstrate proficiency in AA procedures. This event may execute the conduct of any RAC event SAA-1701 through 1705, 1709, 1710, or 1713 through 1715.

Instructor. CI STAN I

Prerequisites. B: 5873

AAACI-5890 1.0 * B G

Goal. AA CI Observe. Observe brief, execution, and debrief of an AA event. The CIUT may observe in conjunction with any RAC event SAA-1701 through 1705, 1709, 1710, or 1713 through 1715.

Instructor. CI STAN I

Prerequisites. B: 5889

AAACI-5891 1.0 * B G

Goal. AA CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing an AA event. This event may be executed in conjunction with any RAC event SAA-1701 through 1705, 1709, 1710, or 1713 through 1715.

Instructor. CI STAN I

Prerequisites. B: 5890

SAADCI-5892 1.0 * B D S 4 TOFT

Goal. AAD CI Perform. Demonstrate proficiency in AAD procedures. This event may execute the conduct of RAC event SAAD-1804 or 1805.

Instructor. CI STAN I

Prerequisites. B: 5891

AAADCI-5893 1.0 * B G

Goal. AAD CI Observe. Observe brief, execution, and debrief of an AAD event. The CIUT may observe in conjunction with RAC event SAAD-1804 or 1805.

Instructor. CI STAN I

Prerequisites. B: 5892

AAADCI-5894 1.0 * B G

Goal. AAD CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing an AAD event. This event may be executed in conjunction with RAC event SAAD-1804 or 1805.

Instructor. CI STAN I

Prerequisites. B: 5893

ASTKCI-5895 1.0 * B G

Goal. STK CI Observe. Observe brief, execution, and debrief of a STK event. The CIUT may observe in conjunction with RAC event SSTK-1820.

Instructor. CI STAN I

Prerequisites. B: 5885, 5894

ASTKCI-5896 1.0 * B G

Goal. STK CI Instruct. Demonstrate proficiency in briefing, instructing, and debriefing a STK event. This event may be executed in conjunction with RAC event SSTK-1820.

Instructor. CI STAN I

Prerequisites. B: 5895

2.17 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE

Phase Overview

REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) STAGES 6000 PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
FA-18 NATOPS EVALUATION	2.18.1	2-175
FA-18 INSTRUMENT EVALUATION	2.18.2	2-177
REQUIRED EVENTS	2.18.3	2-178
QUALIFICATION EVENTS	2.18.4	2-185
SECTION LEADER STANDARDIZATION AND DESIGNATION (SL)	2.18.5	2-187
DIVISION LEADER STANDARDIZATION AND DESIGNATION (DL)	2.18.6	2-198
MISSION COMMANDER STANDARDIZATION AND DESIGNATION (MC)	2.18.7	2-205
WEAPONS SCHOOL GRADUATE INSTRUCTOR (INSTR)	2.18.8	2-208
SPECIFIC WEAPONS DELIVERY PROFICIENCY [SURFACE (SSWD); AERIAL (ASWD)]	2.18.9	2-208

2.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) STAGES

2.18.1 FA-18 NATOPS EVALUATION

Purpose. To evaluate the aircrew's knowledge of aircraft systems, performance limitations, emergency procedures, and ground/flight operations.

General

NATOPS Evaluators/Instructors shall conduct the NATOPS evaluation in accordance with CNAF-M-3710 Series and other applicable directives, instructions, and orders.

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.

Prior to the commencement of the NATOPS evaluation event (NTPS-6101), the NATOPS Open Book, Closed Book, and Oral Examination events (NTPS-6801, 6802, and 6803) shall be completed and graded.

NATOPS Required training. All requirements delineated in the matrix below shall be completed prior to designation as NATOPS qualified.

NATOPS REQUIRED TRAINING		
SELF PACED READINGS		DATE COMP
USMC FA-18 ADMIN SOP		
FA-18 NATOPS Flight Manual		
CNAF-M-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)		

NTPS-6801 1.5 365 B,R,M G 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.

Requirement.

Evaluate

Open book NATOPS test

Performance Standard. Achieve a minimum grade of qualified.

NTPS-6802 1.0 365 B,R,M G 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.

NTPS-6803 0.5 365 B,R,M G 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.

Requirement.

Evaluate

Oral NATOPS test

Performance Standard. Achieve a minimum grade of qualified.

SNTPS-6101 1.0 365 B,R,M (N) S/A 1+ TOFT/FA-18A/C/D

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. NATOPS evaluations shall be evaluated by a NATOPS I/E. NATOPS Instructor evaluations shall be evaluated by a NATOPS E. NATOPS Evaluator evaluations shall be evaluated by the NATOPS Program Manager (VMFAT-101).

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 CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, training rules, and VMFAT-101 INST 3711.1.
- Complies with local course rules.
- Adhere to USMC FA-18 ADMIN SOP.

Instructor. For NATOPS Designation - NATOPS I
For NATOPS I Designation - NATOPS E
For NATOPS E Designation - NATOPS PM

Prerequisite. 6801,6802,6803

2.18.2 **FA-18 INSTRUMENT EVALUATION**

Purpose. To evaluate the pilot’s knowledge of and adherence to NATOPS instrument procedures.

General

The NATOPS instrument evaluation event shall consist of those items delineated in CNAF-M-3710 series (NATOPS), NAVAIR 00-80T-112 (NATOPS Instrument Flight Manual) and FAR/AIM. 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. Prior to the commencement of the NATOPS instrument evaluation event (INST-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 CNAF-M-3710 series. A designated FA-18 instrument check pilot will observe and certify that the PUI is instrument qualified per CNAF-M-3710 series.

NATOPS Instrument Training. All requirements delineated in the matrix below shall be completed prior to designation as NATOPS Instrument qualified.

INSTRUMENT REQUIRED TRAINING		
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)		

INST-6804 1.0 365 B,R,M G INSTRUMENT GROUND SCHOOL EXAM

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:

Pertinent Navy or Marine Corps regulations, orders, and instructions.

Pertinent parts of the Federal Aviation Regulations (FAR), other regulations, and/or aeronautical publications which are applicable.

Interpretation of weather information normally used in flight planning.

Requirement.

Evaluate

IGS exam

Performance Standard. Achieve a minimum grade of qualified.

INST-6805 4.0 365 B,R,M G INSTRUMENT GROUND SCHOOL

Goal. The instrument ground school shall be an approved Commander Naval Air Forces (CNAF) approved syllabus.

Requirement.

Evaluate

IGS exam

Performance Standards. Achieve a minimum grade required for the IGS examination.

SINST-6102 1.0 365 B,R,M (N) S/A 1+ TOFT/FA-18A/C/D

Goal. Following completion of the ground evaluation events, an instrument flight/simulator evaluation event shall be flown and completed with a grade of "Qualified."

Requirement. Upon successful completion of these events, the evaluator shall log the appropriate training code for tracking purposes.

Evaluate

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.

Performance Standards. Executes flight and/or ground operations safely IAW CNAF-M-3710, FA-18 NATOPS, NATOPS Instrument Flight Manual, and training rules.

Instructor. NATOPS Instrument Instructor

Prerequisite. 6804,6805

2.18.3 Required Events (RQD)

Purpose. To track training codes associated with required evaluations and flight leadership proficiency.

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.

Flight skills tracking codes (RQD-6106-6112) shall be logged in conjunction with the appropriate event training code every time an aircrew flies an event with the required flight skill exposure or executes the proficiency requirement.

FRS Flight skills tracking codes (RQD-6120-6130) should be logged in conjunction with the appropriate event training code when replacement aircrew fly the additional required skill exposure. These tracking codes apply to the FRS only.

Prospective Section Lead and Division Lead additional requirement tracking codes (RQD-6131-6146) should

be logged in conjunction with the appropriate event training code for tracking when the additional requirement is completed.

RQD-6103 0.1 540 B,R,M (NS) A 2 FA-18A/C/D

Goal. Track section leader proficiency.

Requirement.

Practice

Brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

RQD-6104 0.1 540 B,R,M (NS) A 4 FA-18A/C/D

Goal. Track division leader proficiency.

Requirement.

Practice

Brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

RQD-6105 0.1 540 B,R,M (NS) A 6+ FA-18A/C/D

Goal. Track mission commander proficiency.

Requirement.

Practice

Brief, lead, and debrief the designated event in accordance with the mission performance standards for that event.

RQD-6106 1.3 * B,R D A 1 FA-18A/C/D

Goal. Provide air-to-air JHMCS introductory flight exposure.

Requirement.

Introduce

Conduct an air-to-air sortie and gain proficiency in the use of JHMCS.

Prerequisite. 2506

RQD-6107 1.3 * B,R D A 1 FA-18A/C/D

Goal. Provide air-to-ground JHMCS introductory flight exposure.

Requirement.

Introduce

Conduct an air-to-ground sortie and gain proficiency in the use of JHMCS.

Prerequisite. 2309

RQD-6108 1.3 * B,R NS A 1 FA-18A/C/D

Goal. Provide JHMCS NVCD introductory flight exposure.

Requirement.

Introduce

Conduct a night systems sortie utilizing the JHMCS NVCD system.

Prerequisite. 2309, 2405

RQD-6109 0.1 545 B,R,M (NS) A 1+ FA-18A/C/D

Goal. Track proficiency in day or night strategic aerial refueling on a KC-10 or similar platform.

Requirement.

Practice

Two day contacts or two night contacts required for completion.

External Syllabus Support. KC-10 tanker or similar.

Prerequisite. 2201

SRQD-6110 1.0 1095 B,R,M S 1 TOFT

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.

Introduce

TTP's, types of FCF profiles, requirements to conduct an FCF, and review of the FCF checklists.

Practice

All portions of the FCF checklist

RQD-6111 0.1 545 B,R,M (NS) A 1+ FA-18A/C/D

Goal. Track proficiency in day or night strategic aerial refueling on a KC-135.

Requirement.

Practice

Two day contacts or two night contacts required for completion.

External Syllabus Support. KC-135.

Prerequisite. 2201

RQD-6112 0.1 90 B,R,M (N) A 1 FA-18A/C/D

Goal. Track proficiency in Roll-and-Go landing procedures.

Requirement. Currency in accordance with local SOP, if more stringent.

Practice

Conduct a Roll-and-Go landing.

RQD-6120 0.1 * B,R,MR,SS D A 1 FA-18A/C/D

Goal. Provide Roll-and-Go landing introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a Roll-and-Go landing.

RQD-6121 0.1 * B,R,MR,SS (N) A 1 FA-18A/C/D

Goal. Provide Standby GCA introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a ground controlled approach with the attitude switch in standby.

RQD-6122 0.1 * B,R D A 2 FA-18A/C/D

Goal. Provide Section Approach introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a section approach to a missed approach in the wingman position.

RQD-6123 0.1 * B D A 2 FA-18A/C/D

Goal. Provide Section Approach Touch and Go introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a section approach to a touch and go in the wingman position.

RQD-6124 0.1 * B,R D A 2 FA-18A/C/D

Goal. Provide Section Overhead Break introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a section overhead break in a wingman position.

RQD-6125 0.1 * B D A 3+ FA-18A/C/D

Goal. Provide Division Overhead Break introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a division overhead break in a wingman position.

RQD-6126 0.1 * B D A 2 FA-18A/C/D

Goal. Provide Section Approach (Lead Position) introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a section approach to a missed approach in the lead position.

RQD-6127 0.1 * B D A 2 FA-18A/C/D

Goal. Provide Section GCA (Lead Position) introductory flight exposure at the FRS.

Requirement.

Introduce

Conduct a section ground controlled approach to a missed approach in the lead position.

RQD-6128 0.1 * B (N) A 2 FA-18A/C/D

Goal. Provide Section Radar Trail Departure introductory flight exposure at the FRS.

Requirement

Introduce

Conduct a section radar trail departure in the wingman position

RQD-6129 0.1 * B D A 2 FA-18A/C/D

Goal. Provide Section Takeoff introductory flight exposure at the FRS.

Requirement. An instructor pilot is required to be in the rear seat of a two-stick configured aircraft.

Introduce

Conduct a section takeoff

RQD-6130 0.1 * B D A 2 FA-18A/C/D

Goal. Provide Section Landing introductory flight exposure at the FRS.

Requirement. An instructor pilot is required to be in the rear seat of a two-stick configured aircraft.

Introduce

Conduct a section landing

RQD-6131 0.1 * B D A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for overhead break recovery.

Requirement. Prospective section lead will lead a section overhead break recovery.

Evaluate

Section overhead break recovery procedures

RQD-6132 0.1 * B (N) A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section precision approach.

Requirement. Prospective section lead will lead a section precision approach.

Evaluate

Section precision approach procedures

RQD-6133 0.1 * B (N) A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for simulated NORDO wingman approach.

Requirement. Prospective section lead will lead a simulated section NORDO approach.

Evaluate

Section NORDO approach procedures

RQD-6134 0.1 * B (N) A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for simulated hung ordnance approach.

Requirement. Prospective section lead will lead a simulated hung ordnance approach.

Evaluate

Section hung ordnance approach procedures

RQD-6135 0.1 * B D A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section straight in, flight lead separation approach.

Requirement. Prospective section lead will lead a section straight in, flight lead separation approach.

Evaluate

Section straight in, flight lead separation approach procedures

RQD-6136 0.1 * B N A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section overhead break recovery at night.

Requirement. Prospective section lead will lead a section overhead break recovery at night.

Evaluate

Section overhead break recovery procedures at night

RQD-6137 0.1 * B N A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section straight in, flight lead separation approach at night.

Requirement. Prospective section lead will lead a section straight in, flight lead separation approach at night.

Evaluate

Section straight in, flight lead separation approach procedures at night

RQD-6138 0.1 * B D A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section landing.

Requirement. Prospective section lead will lead a section landing.

Evaluate

Section landing procedures

RQD-6139 0.1 * B (N) A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for interval takeoff.

Requirement. Prospective section lead will lead an interval takeoff.

Evaluate

Section interval takeoff procedures

RQD-6140 0.1 * B D A 2 FA-18A/C/D

Goal. Track completion of section lead additional requirement for section takeoff.

Requirement. Prospective section lead will lead a section takeoff.

Evaluate

Section takeoff procedures

RQD-6141 0.1 * B (N) A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for division radar trail departure.

Requirement. Prospective division lead will lead a division radar trail departure.

Evaluate

Division radar trail departure procedures

RQD-6142 0.1 * B D A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for division overhead break recovery.

Requirement. Prospective division lead will lead a division overhead break recovery.

Evaluate

Division overhead break recovery procedures

RQD-6143 0.1 * B (N) A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for simulated NORDO wingman approach.

Requirement. Prospective division lead will lead a simulated NORDO approach.

Evaluate

Formation NORDO approach procedures

RQD-6144 0.1 * B D A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for division straight in, flight lead separation approach.

Requirement. Prospective division lead will lead a division straight in, flight lead separation approach.

Evaluate

Division straight in, flight lead separation approach procedures

RQD-6145 0.1 * B N A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for division overhead break recovery at night.

Requirement. Prospective division lead will lead a division overhead break recovery at night.

Evaluate

Division overhead break recovery procedures at night

RQD-6146 0.1 * B N A 3+ FA-18A/C/D

Goal. Track completion of division lead additional requirement for division straight in, flight lead separation approach at night.

Requirement. Prospective division lead will lead a division straight in, flight lead separation approach at night.

Evaluate

Division straight in, flight lead separation approach procedures at night

RQD-6147 1.3 365 B,R D A 6+ FA-18A/C/D vs. 4+ Adversaries

Goal. Participate in a day LFE.

Requirement.

Discuss

Mission planning
Integration
Decision making

Mission accomplishment

Demonstrate

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, TCTS Pod

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

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

RQD-6148 1.3 365 B,R,M NS A 6+ FA-18A/C/D vs. 4+ Adversaries

Goal. Participate in a day LFE.

Requirement.

Discuss

- Mission planning
- Integration
- Decision making
- Mission accomplishment

Demonstrate

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, TCTS Pod

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

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

2.18.4 QUALIFICATION EVENTS (QUAL)

Purpose. To track training codes associated with qualifications.

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.

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

QUAL-6201 0.0 * B,R D A 1+ FA-18A/C/D

Goal. Tracking code for day Carrier Qualification (CQ).

Requirement.

Evaluate

Complete CQ-4104

Performance Standard. Deemed safe by the head squadron LSO for 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. 4104

QUAL-6202 0.0 * B,R N A 1+ FA-18A/C/D

Goal. Tracking code for night CQ.

Requirement.

Evaluate

Complete CQ-4105 and be IAW current Naval Instructions

Performance Standard. Deemed safe by the head squadron LSO for night 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. 4105

QUAL-6203 0.0 * B,R D A 2 FA-18A/C/D

Goal. Tracking code for LAT qualification.

Requirement.

Evaluate

Complete LAT-2603

Performance Standard. At the discretion of the squadron commanding officer a letter assigning the aircrew as LAT qualified shall be placed in the NATOPS jacket.

Prerequisite. 2603

QUAL-6204 0.0 * B,R NS A 2 FA-18A/C/D

Goal. Tracking code for NSLAT.

Requirement.

Evaluate

Complete NSLAT-4703

Performance Standard. At the discretion of the squadron commanding officer a letter assigning the aircrew as NSLAT shall be placed in the NATOPS jacket.

Prerequisite. 4703

QUAL-6205 0.0 1095 B,R,M G LSO Qual

Goal. Tracking code for LSO Qual.

Requirement.

Evaluate

Complete 6201, 6202, and LSO required training

Prerequisite. 6201, 6202, LSO required training

QUAL-6206 1.3 * B,R D A 1+ FA-18A/C/D

Goal. Demonstrate proficiency in the execution of FCF checklist.

Requirement.

Evaluate

Complete the FCF checklist

Performance Standards. Completion of the applicable FCF checklist.

Aircraft Requirements. At the discretion of the squadron commander, will be flown in a known “up” aircraft

Prerequisite. 6110

QUAL-6207 0.0 * B,R (NS) A 2 FA-18A/C/D

Goal. Tracking code for FAC(A) qualification.

Requirement.

Evaluate

Complete FAC(A) syllabus

Performance Standard. 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. 4809~(A/C) or 3809~(D)

QUAL-6208 0.0 * B,R (NS) A 2 FA-18D

Goal. Tracking code for TAC(A) qualification.

Requirement.

Evaluate

Complete TAC(A) syllabus

Performance Standard. 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. 3901

QUAL-6209 0.0 * B,R NS A 2 FA-18A/C/D

Goal. Tracking code for the Night Systems qualification.

Requirement.

Evaluate

Complete NS syllabus

Performance Standard. At the discretion of the squadron commanding officer a letter assigning the aircrew as NS qualified shall be placed in the NATOPS jacket.

Prerequisite. 2405

QUAL-6210 0.0 * B,R (NS) A 2 FA-18A/C/D

Goal. Tracking code for ACM qualification.

Requirement.

Evaluate

Complete AA syllabus

Performance Standard. At the discretion of the squadron commanding officer a letter assigning the aircrew as ACM qualified shall be placed in the NATOPS jacket.

Prerequisite. 2509

2.18.5 SECTION LEADER STANDARDIZATION AND DESIGNATION (SL)

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.

General

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 to SL-6312). WSOs are also required to complete the section leader equivalent 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 to SL-6312). 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-6305). Pilot and WSO briefing and debriefing requirements should be allocated by the training officers in accordance with the aircrew strengths and weaknesses. It is expected that each crew member will brief half of the events and debrief half of the events. However, for the FLSE events, the pilot and WSO should conduct equal portions of the brief and debrief to ensure the maximum amount of exposure to the FLSE.

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 pilot or higher. Three specific SL events (labeled SL FLSE) shall be evaluated by a standardized; MAG CO designated FLSE assigned by the MATSS OIC. **FLSE events shall not be evaluated by internal squadron FLSEs.** A WSO FLSE may evaluate any section lead FLSE flight when crewed with a division Lead pilot or higher. This requirement is unnecessary for simulator FLSE events. Former USN TOPGUN Instructors may evaluate FLSE events IAW the USMC TACSOP for TAI squadrons attached to the CVW.

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. Aircraft should be configured with operable CVRS, ALQ-126B/165, ALR-67, CATM-9, TGP, KY-58, CIT, Link 16, JHMCS, and chaff/flare.

Academic Training. Academic training shall be conducted IAW FA-18 Course Catalog.

Training Requirements. Additional training requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, etc.) it shall be completed prior to the SL CHECK-6312. When the requirement has been completed, log the appropriate tracking code (RQD-6131 through 6140) in conjunction with the SL event flown.

SECTION LEADER TRAINING REQUIREMENTS	
TRAINING REQUIREMENTS	FLIGHT
INTERVAL TAKEOFF (RQD-6139)	SL-6301
LEAD OVERHEAD BREAK (RQD-6131)	SL-6301
SECTION TAKEOFF (RQD-6140)	SL-6303
LEAD SECTION PAR (RQD-6132)	SL-6303
SECTION LANDING (RQD-6138)	SL-6303
LEAD SIMULATED HUNG ORDNANCE APPROACH (RQD-6134)	SL-6305
LEAD SIMULATED NORDO APPROACH (RQD-6133)	SL-6306
LEAD STRAIGHT IN FLIGHT LEAD SEPARATION (RQD-6135)	SL-6308
LEAD STRAIGHT IN FLIGHT LEAD SEPARATION – NIGHT (RQD-6137)	SL-6309
LEAD OVERHEAD BREAK – NIGHT (RQD-6136)	SL-6312

SL-6301 1.3 * B D A 2 FA-18A/C/D

Goal. Conduct medium altitude dive deliveries, pop attacks, and strafes on a raked range. Target audience is a new aircrew recently complete with the FRS and who is familiar with local course rules and USMC FA-18 ADMIN SOP.

Requirement.

Discuss

WASP to produce a valid pop delivery profiles
One delivery profile for the pop with a min alt no lower than 500' AGL
20mm strafe Z from the MAWTS-1 Target Attack Planning Guide with a min alt no lower than 800' AGL
Carriage and release limits, MRI, stick length, valid delivery and abort considerations for a notional live ordnance load in addition to actual loadout
Low altitude section maneuvering, section target attacks, and A/G gunnery
Pop mechanics, target area deconfliction, and symbology to include slant range source indications
and
BALT/RADALT considerations

Evaluate
Flight Leadership
Two individual medium altitude dive deliveries, two section pops, two bunt gun strafes, and two roll in gun strafes
Flight should include an interval takeoff and overhead break
Debrief pattern, delivery safety and deconfliction, evaluate flight leadership, and validate all deliveries

Performance Standards

Provide effective flight leadership and direction
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 awareness of wingman's delivery parameters.
Draw valid learning points.

Prerequisite. 2000, 3000 phase complete.

Ordnance. 12 MK-76, 500 20mm, 20 Chaff, 40 Flare

Range Requirements. RSTD, LAT, RKD RNG, LSR, WISS, STRAFE, TGT, LT INERT, EXP

SSL-6302 1.5 * B D S 2+ TOFT

Goal. Demonstrate knowledge and proficiency in teaching and executing Armed Reconnaissance (AR) TTPs using LGBs and JDAM. Target audience is an aircrew that has completed the AS-2300 stage and who is familiar with the USMC FA-18 ADMIN SOP and TACSOP.

Requirement.

Discuss

Section AR mission in a designated area using precision guided munitions
Reactive weaponeering, carriage and release limitations, delivery profiles, and safe release/escape profiles
TGP search and acquisition techniques, off board cueing sources, and coordinate generation/passage
Application of proper AR/SCAR TTPs
Onboard and off board systems and sensors to detect targets
Positive identification (PID)
Rules of engagement (ROE) and CDE IOT minimize time to kill IAW a target precedence list

Evaluate

Flight leadership and validation of all deliveries
High altitude area search, target information passage, and appropriate attack profiles

Locate, plot, and destroy targets of opportunity
Reactions to surface-air threats
Execute section attacks on targets of opportunity IAW a TPL, PID, and ROE
Flight leadership to include a battlefield handover and the management of multiple assets within a single assigned area.
Debrief attack geometry, profiles, delivery safety and deconfliction

Performance Standards

Provide effective flight leadership and direction
Conduct visual/sensor reconnaissance of assigned area and detect targets.
Perform target attacks appropriate for scenario.
Minimize threat exposure and direct appropriate SACT.
Maintain situational awareness of wingman and mutual support.
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.

Prerequisite. 6301

SL-6303 1.3 * B D A 2 FA-18A/C/D

Goal. Demonstrate knowledge and proficiency in teaching and executing Armed Reconnaissance (AR) TTPs using IAMS, GP, and 20 mm. Target audience is an aircrew that has completed the AS-2300 stage and who is familiar with the USMC FA-18 ADMIN SOP and TACSOP.

Requirement.

Discuss

Section AR mission in a designated area using precision guided munitions
Reactive weaponeering, carriage and release limitations, delivery profiles, and safe release/escape profiles
TGP search and acquisition techniques, off board cueing sources, and coordinate

generation/passage

The application of proper AR TTPs
Onboard and off board systems and sensors to detect targets
Positive identification (PID)
Rules of engagement (ROE) and CDE IOT minimize time to kill IAW a target precedence list

Evaluate

Flight leadership and validate all deliveries
High altitude area search, discuss/pass target information, and execute the most appropriate target area attack
Locate, plot, and destroy targets of opportunity
Section takeoff, section PAR, and section landing
Reactions to surface-air threats
Section attacks on targets of opportunity IAW a TPL, PID, and ROE
Flight leadership to include a battlefield handover and the management of multiple assets within a single assigned area.
Debrief attack geometry, profiles, delivery safety and deconfliction

Performance Standards

Provide effective flight leadership and direction
Conduct visual/sensor reconnaissance of assigned area and detect targets.
Perform target attacks appropriate for scenario.
Minimize threat exposure and direct appropriate SACT.
Maintain situational awareness of wingman and mutual support.

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.

Prerequisite. 6302

Ordnance. 2 GBU-38/32, 2 MK-82 or 6 MK-76, 250 20mm, 20 Chaff, 40 Flare

Range Requirements. RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT) JDAM, EXP

External Syllabus Support.

SSL-6304 1.5 * B NS S 2 TOFT

Goal. Conduct a section close air support (CAS) mission using GP/PGM 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.

Requirement. Debrief scenario, threat, TOS, and specific CAS missions to include a review of the 9 lines given, number of exposures, TOTs, weapons effectiveness and BDA. Evaluate flight leadership and validate all deliveries.

Discuss

- Section CAS mission in a combat scenario
- CAS procedures of all three types of control
- CAS TTP's IAW bomb on target (BOT) and bomb on coordinate (BOC) methods of attack
- JTAC integration
- Section mutual support
- Weapon to target match
- System management
- WASP planning
- Surface-to-air countertactics (SACT)
- C3 information flow
- Plan and brief delivery profiles with a min alt no lower than 3K' AGL for GP ordnance and 500'

AGL for

- strafe (1000' AGL for low light levels in an FA-18A++)
- Deconfliction and flow IAW provided SPINS throughout the CAS environment

Evaluate

- Flight leadership and validate all deliveries
- Four individual nine-lines with briefed ordnance, under Type 1/2/3 control, BOT/BOC, and under the direction of a JTAC and/or FAC(A)
- Adherence to TACSOP, valid delivery profiles, min altitude, abort criteria and safe escape
- Proficiency in weapons delivery and knowledge of all pertinent systems and how they apply to CAS 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 BDA

Performance Standards

- Provide effective flight leadership and direction
- Comply with CAS TTPs.
- TOT +/- 15 secs.
- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Comply with tactical abort parameters.
- Perform the proper system set up IAW TACSOP recommendations.
- Use effective communication IAW CAS procedures to establish effective two-way information flow between ground units and CAS section.
- Draw valid learning points.

Prerequisite. 6302

SL FLSE-6305 1.3 * B (NS) A 2 FA-18A/C/D

Goal. Conduct a day or night, section close air support (CAS) mission using GP/PGMs 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. .

Requirement.

Discuss

Section CAS mission on a tactical range
CAS procedures of all three types of control
CAS TTP's IAW bomb on target (BOT) and bomb on coordinate (BOC) methods of attack
JTAC integration
Section mutual support
Weapon to target match
System management
WASP planning
SACT
C3 information flow
Plan and brief delivery profiles with a backup LGB delivery using a min alt no lower than 3K'

AGL and

500' AGL for strafe
Discuss weapons delivery considerations IAW WASP planning
Brief deconfliction and flow IAW provided SPINS throughout the CAS environment

Evaluate

Flight leadership and validate all deliveries
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

Section simulated hung ordnance approach
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 BDA

Performance Standards

Provide effective flight leadership and direction
Comply with CAS TTPs.
Comply with tactical abort parameters.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
TOT +/- 15 secs.
Use effective communication IAW CAS procedures to establish effective two-way information flow between ground units and CAS section.
React to and direct section vs surface-air threats.
Draw valid learning points.

Prerequisite. 6304

Ordnance. 2 GBU-12/16 or 2 LGTR, 2 MK-82 or 6 MK-76, 250 20mm, 20 Chaff, 40 Flare

Range Requirements. RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT), LGB, EXP

External Syllabus Support. JTAC or FAC(A)

SL-6306 1.3 * B D A 2 FA-18A/C/D

Goal. Conduct a 1v1 high aspect BFM sortie vs a similar adversary. Target audience is an aircrew that has completed the AA-2500 stage.

Requirement.

Discuss

Plan, brief, lead, and debrief a 1v1 high aspect BFM sortie
The brief 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 required with a maximum hard deck of 15K' AGL
Energy management and assessment
Game plan development
Offensive and defensive transition recognition
Weapons employment
Adherence to training rules
Flight leadership.

Evaluate

Flight leadership and validate all shots.
One flat or rolling scissors, one abeam set and one butterfly set is required.
Simulated NORDO approach.
Whiteboard debrief with TCTS to validate the reconstruction
Tape review

Performance Standards

Provide effective flight leadership and direction
Execute proper admin and tac admin procedures.
Execute safely IAW CNAF-M- 3710 and training rules.
Deny opponent weapon employment opportunities.
Achieve first weapons employment opportunity.
Gain a positional advantage.
Employ follow-on weapons.
Transition to offensive or defensive BFM.
Take valid shots.
Accurately recall and reconstruct using white board/models.
Draw valid learning points.

Prerequisite. 6301

Ordnance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, EXP

SL-6307 1.3 * B D A 2 FA-18A/C/D 2 (DISSIMILAR) ADV

Goal. Conduct a 2v2 VID/TAP-THE-CAP sortie against two short burn, (dissimilar) adversaries. Target audience are aircrew that have recently received their ACM qualification.

Requirement.

Discuss

Section VID/SEM sortie
C&D's
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

Clear field of fire
Roles of the fighters
Extension criteria
Clearing the merge
A minimum of 15K' of maneuvering airspace is required with a maximum hard deck of 15K'

AGL

Fighters will execute Decision Range tactics with no Exit available

Evaluate

Evaluate flight leadership and validate all shots
One VID and two 2v1/2 TAP-THE-CAP setups from the abeam and stern
For the VID run the adversaries will remain a single sortable group
Debrief comprised of a fighter element scrub, mass whiteboard/TCTS debrief, fighter debrief and

tape

review

Performance Standards

Provide effective flight leadership and direction
Execute proper admin and tac admin procedures.
Execute safely IAW CNAF-M- 3710 and training rules.
Utilize clear and concise comm IAW ALSA comm brevity.
Maintain mutual support.
Execute proper notch, exit, and merge mechanics.
Achieve an accurate VID at the merge.
Deny opponent weapon employment opportunities.
Effective coordinated section engaged maneuvering.
Accurately recall and reconstruct using white board and/or TCTS.
Draw valid learning points.

Prerequisite. 6306

Ordinance. CATM-9, 20 Chaff, 40 Flare

Range Requirements. AA, MACH 1+, EXP

External Syllabus Support. AIC, two (dissimilar) adversaries.

SL-6308 1.3 * B (NS) A 2 FA-18A/C/D

Goal. Conduct 2v2 all-weather intercepts. Target audience is a new aircrew recently complete with the FRS and unfamiliar with SOP and local area procedures. This event can be conducted as red air in support of another evolution.

Requirement.

Discuss

2v2 intercept sortie
Comprehensive knowledge and understanding of tactical recommendations, NATOPS, USMC
FA-18 ADMIN SOP, and local course rules

Evaluate

Flight leadership and validate all shots.
Three all-weather intercepts from a medium altitude vs forward quarter capable, maneuvering
adversaries, commencing at high, medium, and low altitude
Flight lead separation on final approach
If conducted as a red air element, demonstrate knowledge of adversary tactics, adversary

replication, and

adversary employment.

Performance Standards

Provide effective flight leadership and direction
Execute proper admin and tac admin procedures.
Execute intercepts safely IAW CNAF-M- 3710 and training rules.
Demonstrate proficiency in basic radar mechanics.
Take valid shots.
Accurately recall and reconstruct using a white board.

Prerequisite. 6301.

Ordnance. CATM-9, CATM-120, 40 Chaff, 20 Flare

Range Requirements. AA, EXP

External Syllabus Support. AIC, two adversaries.

SL FLSE-6309 1.3 * B NS A 2 FA-18A/C/D

Goal. Demonstrate knowledge and proficiency in being able to teach and execute a night 2v2 section sortie against maneuvering and non-maneuvering short burn adversaries. Target audience is an aircrew that has recently completed their ACM qualification. Emphasize Launch and Leave tactics, Launch and Decide tactics, mutual support, maneuvering target mechanics, shot doctrine, weapons employment, RWR awareness, and merge mechanics.

Requirement.

Discuss

- Plan, brief, lead, and debrief a night section BVR sortie.
- Mutual support
- Maneuvering target mechanics
- Shot doctrine
- Weapons employment
- RWR awareness
- Out Mechanics
- Notch mechanics
- Merge mechanics
- Launch and Decide intercept against non-maneuvering and maneuvering groups.
- Launch and Leave intercept against non-maneuvering and maneuvering groups.

Evaluate

- Flight leadership and validate all shots
- Three single sortable problems
- Flight lead separation on final approach at night.
- Reconstruction of the intercepts conducted via white board or TCTS playback.
- Analyze each run and develop analysis points.
- Tape review to evaluate tactical execution and shot validation.

Performance Standards

- Provide effective flight leadership and direction
- Maintain mutual support.
- Execute proper maneuvering target mechanics.
- Execute appropriate shot doctrine and weapons employment.
- Execute proper out, notch, exit, and merge mechanics.
- Accurately recall and reconstruct using white board and/or TCTS.
- Draw valid learning points.

Prerequisite. 6308

Ordnance. CATM-9, CATM-120, 40 Chaff, 20 Flare

Range Requirements. AA, EXP

External Syllabus Support. AIC, two adversaries.

SSL-6310 1.5 * B (NS) S 2 TOFT

Goal. Demonstrate knowledge and proficiency in teaching and executing a 2vX DCA against an unknown number of long burn adversaries. Target audience is ACM qualified. This event shall focus on section employment. The PSL shall either be in the -1 position of a 2-ship, or be -3 (with a wingman) in a 4-ship.

Requirement.

Discuss

Section DCA.
Adversaries shall be tasked at level 3 or 4.
FEZ planning and management
Picture targeting
Timeline awareness
Shot doctrine
Sanitization
Standardized communications
Flight leadership.
Targeting
Maneuvering target mechanics
Electronic attack
Defensive considerations.
PID to allow onboard autonomous ID

Evaluate

Flight leadership and validate all shots.
Debrief comprised of a fighter element scrub, BDS debrief, and tape review.
BDS debrief and tape review

Performance Standards

Provide effective flight leadership and direction
Attrite all groups before they become a factor to the defended asset.
Execute briefed picture targeting.
Execute briefed shot doctrine taking valid shots.
Detect all uncalled groups through fighter sanitization of the FEZ.
Maintain mutual support.
Execute proper radar mech.
Effective targeting/retargeting.
Timeline awareness.
Accurately recall and reconstruct using BDS.
Draw valid learning points.

Prerequisite. 6309

External Syllabus Support. AIC

SSL FLSE-6311 1.5 * B NS S 2 TOFT

Goal. Execute a medium altitude IAM STK mission against an unknown number of short burn adversaries. Target audience is 2000 phase complete. Adversaries should be tasked as level 2 or 3 with no greater than 2 group problems. This event shall focus on section employment. The PSL shall either be in the -1 position of a 2-ship, or be -3 (with a wingman) in a 4-ship.

Requirement.

Discuss

Medium altitude strike against a target protected by IADS with IAMs
TOT within a two-minute notional SEAD window for strike route timing

Strike route planning
WASP planning
Weaponneering
Timeline awareness
Tactical decision making
Target acquisition and destruction
Threat countertactics
SACT
Flight leadership
Fuel management
Route timing
BDA
C3 information flow

Evaluate

Evaluate flight leadership and validate all shots and ordnance employments
The debrief comprised of a fighter element scrub, BDS debrief, fighter debrief, and tape review

Performance Standards

Provide effective flight leadership and direction
Recognize and react appropriately to both surface-to-air and air-to-air threats.
Effective targeting/retargeting.
Tactical decision making IAW mission objectives.
Deliver weapons on planned DPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.
Maintain mutual support.
Accurately recall and reconstruct using BDS.
Draw valid learning points.

Prerequisite. 6310

External Syllabus Support. AIC

SL CHECK-6312 1.3 540 B,R NS A 2 FA-18A/C/D vs. 2 ADV

Goal. Conduct a night, medium altitude, LGB STK mission against an unknown number of short burn adversaries. Target audience is 2000 phase complete. Evaluated by the Commanding Officer or designated representative. Adversaries should be tasked as level 2 or 3 with no greater than 2 group problems. This event shall focus on section employment. The PSL shall either be in the -1 position of a 2-ship, or be -3 (with a wingman) in a 4-ship.

Requirement.

Discuss

Night, Medium altitude LGB STK against a target protected by IADS
TOT within a two-minute notional SEAD window for strike route timing
Strike route planning
WASP planning
Weaponneering
Timeline awareness
Tactical decision making
Target acquisition and destruction
Threat countertactics
SACT
Flight leadership
Fuel management
Route timing
BDA
C3 information flow

Evaluate

Night overhead recovery
Debrief comprised of a fighter element scrub, mass TCTS debrief, fighter debrief and tape review.
Flight leadership and validate all shots and ordnance employments

Performance Standards

Provide effective flight leadership and direction
Recognize and react appropriately to both surface-to-air and air-to-air threats.
Effective targeting/retargeting.
Tactical decision making IAW mission objectives.
Deliver weapons on planned DPI.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Take valid shots.
Maintain mutual support.
Accurately recall and reconstruct using BDS.
Draw valid learning points.

Prerequisite. 6131-6140, 6301-6311,8630,8660

Ordnance. 2 GBU-12/16 or 2 LGTR, CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), LGB, EXP

External Syllabus Support. Two or more (dissimilar) Adversaries, AIC, RTO.

2.18.6 DIVISION LEADER STANDARDIZATION AND DESIGNATION (DL)

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.

General

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. WSOs are also required to complete the division leader equivalent syllabus. WSOs shall have a minimum of 400 hours in model and be designated section leaders. Pilot and WSO briefing and debriefing requirements should be allocated by the training officers in accordance with the aircrew strengths and weaknesses. It is expected that each crew member will brief half of the events and debrief half of the events. However, for the FLSE events, the pilot and WSO should conduct equal portions of the brief and debrief to ensure the maximum amount of exposure to the FLSE.

All DL events shall be evaluated by a designated SFTI, MDTI, or mission commander, or FLSE. An SFTI, MDTI, or WTI WSO may evaluate any event when paired with a designated division leader pilot or higher. A WSO FLSE may evaluate any division lead FLSE flight when crewed with a division lead pilot or higher. This requirement is unnecessary for simulator FLSE events. Former USN TOPGUN Instructors may evaluate FLSE events for TAI squadrons attached to the CVW.

To the greatest extent possible, PDLs should conduct the following day and night syllabus sorties in order. 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. Aircraft should be configured with operable VTR/CVRS, ALQ-126B/165, ALR-67, KY-58, TGP, Link 16, CIT, DCS/VMF, LST, and TCTS pods, and chaff/flare.

Academic Training. Academic training shall be conducted IAW FA-18 Course Catalog.

Training Requirements. Additional training requirements are to be performed on the flights assigned below. If the requirements cannot be accomplished on the designated flight (weather, runway, etc.) it shall be completed prior to the DL CHECK-6407. When the requirement has been completed, log the appropriate tracking code (RQD-6141 through 6146) in conjunction with the DL event flown.

DIVISION LEADER TRAINING REQUIREMENTS

TRAINING REQUIREMENTS	FLIGHT
LEAD DIVISION RADAR TRAIL (RQD-6141)	DL-6401
LEAD OVERHEAD BREAK (RQD-6142)	DL-6401
LEAD STRAIGHT IN FLIGHT LEAD SEPARTION – DAY (RQD-6144)	DL-6406
LEAD OVERHEAD BREAK – NIGHT (RQD-6145)	DL-6407
LEAD STRAIGHT IN FLIGHT LEAD SEPARTION – NIGHT (RQD-6146)	DL-6404

DL-6401 1.3 * B D A 4 FA-18A/B/C/D

Goal. Conduct a division raked range sortie.

Requirement.

Discuss

- Division raked range sortie
- Formation procedures
- Pattern procedures
- Late arrival procedures
- Lame duck procedures
- Off target rendezvous
- RTB

Evaluate

- Flight leadership
- Weapons employment
- Pattern deconfliction
- Division radar trail departure and overhead break.

Performance Standards

- Provide effective flight leadership and direction
- Maintain mutual support.
- Accurately recall and reconstruct using BDS.
- Draw valid learning points.

Prerequisite. 6312

Ordnance. 4 BDU-45 or 12 MK-76, 500 20 mm, 20 Chaff, 40 Flare

Range Requirements. LSR, TGT, HE, (LT INERT), (HVY INERT), STRAFE, EXP

External Syllabus Support. None

SDL-6402 1.5 * B (NS) S 4 TOFT

Goal. Conduct a 4vX OCA (Sweep). Target audience is 2000 phase complete. Adversaries should be tasked as level 3 or 4 and be a 4th generation platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats.

Requirement.

Discuss

- Division OCA
- Mission planning factors
- Timeline awareness
- Picture targeting
- Maneuvering target mechanics
- Shot doctrine
- Electronic attack
- Defensive considerations.

Evaluate

Division OCA employment
Debrief comprised of a fighter element scrub, BDS debrief, fighter debrief and tape review.

Performance Standards

Provide effective flight leadership and direction
Maintain mutual support.
Execute proper radar mech.
Execute briefed picture targeting.
Execute briefed shot doctrine taking valid shots.
Detect all uncalled groups through fighter sanitization.
Timeline awareness.
Tactical decision making IAW mission objectives.
Accurately recall and reconstruct using BDS.
Draw valid learning points.

Prerequisite. 6401

External Syllabus Support. AIC

SDL-6403 1.5 * B (NS) S 4 TOFT

Goal. Demonstrate knowledge and proficiency in being able to teach and execute a 4vX DCA. Target audience is 2000 phase complete. Adversaries should be tasked as level 3 or 4 and be a 4th generation platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats.

Requirement.

Discuss

Division DCA using a FEZ/MEZ
FEZ planning and management
Commit and reset criteria
Picture targeting
Sanitization
Maneuvering target mechanics
Shot doctrine
Safety valves
Effective comm.
Timeline awareness
Electronic attack
Defensive considerations
PID should be briefed to allow onboard autonomous ID

Evaluate

Two defined 20 minute vulnerability periods
After each vulnerability period 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.

Performance Standards

Provide effective flight leadership and direction
Attrite all groups before they become a factor to the defended asset.
Execute briefed picture targeting.
Execute briefed shot doctrine taking valid shots.
Detect all uncalled groups through fighter sanitization of the FEZ.
Maintain mutual support.
Execute proper radar mech.
Timeline awareness.
Tactical decision making IAW mission objectives.

Accurately recall and reconstruct using BDS.
Draw valid learning points.

Prerequisite. 6402

External Syllabus Support. AIC

DL-6404 1.3 * B NS A 4 FA-18A/C/D 3+ ADV

Goal. Conduct a night 4vX DCA. Target audience is 2000 phase complete. Adversaries should be tasked as level 3 or 4 and be a 4th generation platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats. Flight will use AIC, RTO, and separate frequencies if available. A minimum of 15K³ of maneuvering airspace is required. The flight should be run using one continuous defined vulnerability window.

Requirement

Discuss

- Division DCA using a FEZ/MEZ.
- Mission planning factors
- FEZ planning and management
- Timeline awareness
- Commit and reset criteria
- Picture targeting
- Maneuvering target mechanics
- On/off board PID
- VID game plan to allow onboard autonomous ID
- EA recognition
- Weapons employment
- Flight leadership
- Flight should recover via a flight lead separation at night.

Evaluate

- Debrief comprised of a fighter element scrub, mass TCTS debrief, fighter debrief and tape review.
- Safety of flight
- Targeting
- Tactical decision making
- Timeline awareness
- Radar mechanics
- Communication
- PID indications
- RWR indications
- EA indications
- Defensive considerations
- Shot validation
- Mission accomplishment
- Flight leadership

Performance Standards

- Provide effective flight leadership and direction
- Attrite all groups before they become a factor to the defended asset.
- Execute briefed picture targeting.
- Execute briefed shot doctrine taking valid shots.
- Detect all uncalled groups through fighter sanitization of the FEZ.
- Maintain mutual support.
- Execute proper radar mech.
- Timeline awareness.
- Tactical decision making IAW mission objectives.

Accurately recall and reconstruct using TCTS.
Draw valid learning points.

Prerequisite. 6403

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, MACH 1+, TCTS, EW, EXP

External Syllabus Support. Three or more (dissimilar) adversaries, AIC, RTO.

SDL-6405 1.5 * B (NS) S 4 TOFT

Goal. Conduct a low altitude, division, Strike mission against an unknown number of short burn adversaries. Target audience is 2000 phase complete. Adversaries should be tasked as level 2 or 3 with no greater than two group problems.

Requirement.

Discuss

- Division low altitude strike against a target protected by IADS with GP ordnance
- TOT coincident with a notional SEAD window
- Mission Planning Factors
- Target area tactics/deconfliction
- DPI acquisition
- Ordnance employment
- Strike route planning
- WASP planning
- Tactical decision making
- Target acquisition and destructions
- Terrain clearance tasks
- Fuel management
- Route timing
- BDA
- C3 information flow
- Timeline awareness
- Threat countertactics
- Surface to air counter-tactics.
- Flight leadership

Evaluate

- BDS playback
- Fighter debrief
- Tape review
- Safety of flight
- Targeting
- Tactical decision making
- Timeline awareness
- Radar mechanics
- Communication
- PID indications
- RWR indications
- EA indications
- Defensive considerations
- Target acquisition
- Weapons employment
- Shot and ordnance delivery validation
- Mission accomplishment
- Flight leadership

Performance Standards

Provide effective flight leadership and direction
Recognize and react appropriately to both surface-to-air and air-to-air threats.
Effective targeting/retargeting.
Tactical decision making IAW mission objectives.
Take valid shots.
Maintain mutual support.
Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
Deliver weapons on planned DPI.
Accurately recall and reconstruct using BDS/TCTS.
Draw valid learning points.

Prerequisite. 6403

External Syllabus Support. AIC

DL FLSE-6406 1.3 * B (NS) A 4 FA-18A/C/D vs. 2+ ADV

Goal. Conduct a medium altitude, day, division, PGM Strike mission against an unknown number of short burn adversaries and an integrated air defense system. Adversaries should be tasked as level 2 or 3 with no more than two group problems.

Requirement.

Discuss

Medium altitude strike against a target protected by IADS with LGBs and/or JDAM
TOT coincident with a notional SEAD window based on mission planning factors
Mission planning factors
Weaponing
Ordnance required
Route planning
Target area tactics/
Deconfliction
DPI acquisition
Ordnance employment
BDA
Surface-to-air countertactics
Fuel management
Route timing
BDA
Tactical decision making
Target acquisition and destruction
Threat counter tactics
C3 information flow
Flight Leadership

Evaluate

Debrief comprised of fighter element scrub, mass TCTS debrief, fighter debrief and tape review
Safety of flight
Ordnance delivery & effectiveness
DPI acquisition
Targeting
Tactical decision making
Timeline awareness
Radar mechanics
Communication
PID indications
RWR indications

- EA indications
- Defensive considerations
- Shot validation
- Mission accomplishment
- Flight leadership

Performance Standards

- Provide effective flight leadership and direction
- Recognize and react appropriately to both surface-to-air and air-to-air threats.
- Effective targeting/retargeting.
- Tactical decision making IAW mission objectives.
- Take valid shots.
- Maintain mutual support.
- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Deliver weapons on planned DPI.
- Accurately recall and reconstruct using TCTS.
- Draw valid learning points.

Prerequisite. 6405

Ordnance. 2 GBU-12/16 or 2 LGTRS and/or 2 GBU-32/38, CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, LT INERT, HVY INERT, JDAM, LGB, EXP

External Syllabus Support. Two or more (dissimilar) adversaries, AIC, RTO.

DL CHECK-6407 1.3 540 B,R NS A 4 FA-18A/C/D vs. 2+ ADV

Goal. Conduct a medium altitude, night, division, PGM Strike mission against an unknown number of short burn adversaries and an integrated air defense system. Target audience is 2000 phase complete. Evaluated by the Commanding Officer or designated representative. Adversaries should be tasked as level 2 or 3 with no more than two group problems.

Requirement.

Discuss

- Medium altitude strike against a target protected by IADS with LGBs and/or JDAM
- TOT coincident with a notional SEAD window based on mission planning factors
- Mission planning factors,
- Weaponing
- Ordnance required
- Fuel management
- Route planning
- Route timing
- C3 information flow
- Target area tactics
- Deconfliction
- DPI acquisition
- Ordnance employment
- BDA
- Threat counter tactics
- Surface-to-air countertactics
- Tactical decision making
- Target acquisition and destruction
- Flight leadership

Evaluate

Debrief comprised of a fighter element scrub, mass TCTS debrief, fighter debrief and tape review

- Safety of flight
- Ordnance delivery & effectiveness
- DPI acquisition
- Targeting
- Tactical decision making
- Timeline awareness
- Radar mechanics
- Communication
- PID indications
- RWR indications
- EA indications
- Defensive considerations
- Shot validation
- Mission accomplishment
- Flight leadership.

Performance Standards

- Provide effective flight leadership and direction
- Recognize and react appropriately to both surface-to-air and air-to-air threats.
- Effective targeting/retargeting.
- Tactical decision making IAW mission objectives.
- Take valid shots.
- Maintain mutual support.
- Adhere to WASP delivery parameters and TACSOP valid delivery criteria.
- Deliver weapons on planned DPI.
- Accurately recall and reconstruct using TCTS.
- Draw valid learning points.

Prerequisite. 6141-6146, 6406, 8640, 8641

Ordnance. 2 GBU-12/16 or 2 LGTRS and/or 2 GBU-32/38, CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, LT INERT, HVY INERT, JDAM, LGB, EXP

External Syllabus Support. Two or more (dissimilar) adversaries, AIC, RTO.

2.18.7 Mission Commander Standardization And Designation (MC)

Purpose. To prepare and evaluate the prospective mission commander's ability to plan, brief and lead an event as a mission commander.

General

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 and be designated as a division leader. 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.

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, NAWDC Air wing Strike Lead, or the squadron commanding officer.

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.

Aircraft should be configured with operable VTR/CVRS, ALQ-126B/165, ALR-67, KY-58, TGP, CIT, Link 16, DCS/VMF, and LST when required.

MC-6501 1.3 * B NS A 8+ Blue a/c vs. 4+ (DISS) Adversary

Goal. Conduct an Air Defense mission of defended assets for a continuous defined vulnerability period. Adversaries should be tasked as level 3 or 4 and be a 4th generation platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats. Fighter weapons control status is tight with ROE and PHID criteria set by the mission commander during mission planning according to theater of operation.

Requirement.

Discuss

- Air Defense mission against an unknown number of adversaries
- AC2W
- Ground Based Air Defense
- Missile and fighter engagement zones
- Air Refueling
- Coordinating mission planning
- Asset integration
- Information flow
- Cap management
- ROE
- PID
- Mission accomplishment

Evaluate

- Mission accomplishment
- Combined Evaluation
- 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. 6407

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

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

External Syllabus Support. AIC, RTO, four or more (dissimilar) adversaries. Tanker support preferred.

MC-6502 1.3 * B D A 6+ Blue a/c vs. 4+ (DISS) Adversary

Goal. Conduct a day Strike Large Force Exercise. Adversaries should be tasked as level 3 or 4 and be a 4th generation platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats.

Requirement.

Discuss

- Strike Large Force Exercise
- Multiple blue air fighter, SEAD, EW, and strike elements
- Coordinating mission planning
- Airborne decision-making

Asset management and integration
Control of multiple aircraft elements and agencies

Evaluate

Mission accomplishment
Combined Evaluation
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. 6407

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, TCTS, EXP, EW

External Syllabus Support. AIC, RTO, 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 * B NS A 6+ Blue a/c vs. 4+ (DISS) Adversary

Goal. Conduct a night Strike Large Force Exercise. Adversaries should be tasked as level 3 or 4 and be a 4th platform capable of employing modern semi-active and advanced active missiles, long burn, short burn, and IR only threats.

Requirement.

Discuss

Night Strike Large Force Exercise
Multiple blue air fighter, SEAD, EW, and strike elements
Coordinating mission planning
Airborne decision-making
Asset management and integration
Control of multiple aircraft elements and agencies

Evaluate

Mission accomplishment
Combined Evaluation
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. 6501,6502,8620

Ordnance. CATM-9, CATM-120, TCTS Pod, 40 Chaff, 20 Flare

Range Requirements. AA, EXP, TCTS, TGT, LGB, TGT-DISP

External Syllabus Support. AIC, RTO, four or more blue fighters, four or more (dissimilar) adversaries, two SEAD aircraft preferred, one electronic attack aircraft preferred, tanker support preferred.

2.18.8 Weapons School Graduate Instructor (INSTR)

Purpose. To track completion of Weapons Schools and designation as graduate instructors.

General. Letters from the squadron commanding officer awarding these designations shall be placed in the NATOPS jacket and APR.

INSTR Overview

WEAPONS SCHOOL GRADUATE INSTRUCTOR (INSTR)							
EVENT	TIME	REFLY	POI	CONDITION	DEVICE	NUM	DESCRIPTION
INSTR-6601	0.0	*	B				WTI
INSTR-6602	0.0	*	B				MDTI
INSTR-6603	0.0	*	B				SFTI

INSTR-6601 Weapons and Tactics Instructor (WTI).

INSTR-6602 Marine Division Tactics Instructor (MDTI).

INSTR-6603 Strike Fighter Tactics Instructor (SFTI).

2.18.9 Specific Weapons Delivery Proficiency [SURFACE (SSWD); AERIAL (ASWD)]

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).

General

Emphasize safe, effective employment of all weapons.

Since air-to-air weapons employment involves live firing, flight leads, lead safes, and tractor aircrew will closely monitor aircrew for any unsafe tendencies.

Due to the dynamic nature of employing air-to-air weapons systems, commanding airborne debris and towed targets after air-to-air weapons employment.

In order to perform proper post flight analysis, all aircraft participating in ASWD sorties require operable VTR/CVRS.

SSWD-6701 0.0 180 B,R,M (NS) A 1 FA-18A/C/D

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

Range Requirements. STRAFE

SSWD-6702 0.0 90 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in dropping MK-76s.

Requirement. Must drop one MK-76 for completion.

Ordnance. At least one Mk-76

Range requirements. LT INERT

SSWD-6703 0.0 180 B,R,M A 1 FA-18A/C/D

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

Range requirements. HVY INERT

SSWD-6704 0.0 180 B,R,M A 1 FA-18A/C/D

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

Range requirements. HE

SSWD-6705 0.0 90 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in dropping LGTRs.

Requirement. Must drop one LGTR for completion.

Ordnance. At least one LGTR

Range requirements. LT INERT, LSR

SSWD-6706 0.0 180 B,R,M A 1 FA-18A/C/D

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.

Range requirements. HVY INERT, LSR.

SSWD-6707 0.0 365 B,R,M A 1 FA-18A/C/D

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

Range requirements. HE/HVY INERT, LSR

SSWD-6708 0.0 180 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in captive carry of a JDAM.

Requirement. Captive carry one JDAM.

Ordnance. One captive JDAM.

SSWD-6709 0.0 180 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in delivering inert JDAM.

Requirement. Deliver one inert JDAM.

Ordnance. One inert JDAM

Range requirements. HVY INERT

SSWD-6710 0.0 365 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in delivering JDAM.

Requirement. Deliver one JDAM.

Ordnance. One JDAM

Range requirements. HE

SSWD-6711 0.0 180 B,R,M A 1 FA-18A/C/D

NAVMC 3500.50E
27 Oct 20

Goal. Track proficiency in captive carry AGM-65E Laser Maverick employment.

Requirement. Functional captive AGM-65E/E2 Laser Maverick.

Ordnance. At least one captive AGM-65E/E2 Laser Maverick

Range requirement. LSR

SSWD-6712 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in shooting AGM-65E Laser Maverick.

Requirement. Must shoot one AGM-65E Laser Maverick.

Ordnance. At least one AGM-65E/E2 Laser Maverick

Range Requirement. Live Air-to-Surface missile range that is laser safe

SSWD-6713 0.0 365 B,R,M A 1 FA-18A/C/D

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

Range requirements. Live or inert ordnance range

SSWD-6714 0.0 365 B,R,M (NS) A 1 FA-18A/C/D

Goal. Track proficiency in shooting live or inert APKWS.

Requirement. Shoot one rocket for completion.

Ordnance. At least one APKWS.

Range requirements. Live or inert ordnance range.

SSWD-6715 0.0 365 B,R,M N A 1 FA-18A/C/D

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

Range requirement. Inert ordnance range

SSWD-6716 0.0 365 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in dropping live or inert CBU-99.

Requirement. Drop one CBU-99 for completion.

Ordnance. At least one CBU-99

Range requirement. CBU

SSWD-6717 0.0 545 B,R,M A 1 FA-18A/C/D

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

Range Requirement. Live ordnance range

SSWD-6718 0.0 545 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in captive carry of a JSOW.

Requirement. Captive carry one JSOW.

Ordnance. One captive JSOW

SSWD-6719 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in delivering JSOW.

Requirement. Deliver one JSOW.

Ordnance. One JSOW

Range requirement. Live ordnance range

SSWD-6720 0.0 180 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in captive carry of AGM-88/88E ARM.

Requirement. Functional captive AGM-88/88E ARM.

Ordnance. At least one captive AGM-88/88E ARM

SSWD-6721 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in shooting the AGM-88/88E ARM.

Requirement. Shoot one AGM-88/88E ARM.

Ordnance. At least one AGM-88/88E ARM

Range Requirement. Live Air-to-Surface missile range with emitter on the range

External Syllabus Support. Range safety officer

SSWD-6722 0.0 545 B,R,M A 1 FA-18A/C/D

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-6723 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in shooting the SLAM(ER).

Requirement. Shoot one SLAM(ER).

Ordnance. At least one SLAM(ER), 1 AAW-13 pod

Range requirement. Live Air-to-Surface missile range

External Syllabus Support. Range safety officer

SSWD-6724 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in dropping a TALD/ITALD.

Requirement. Drop one TALD/ITALD.

Ordnance. At least one TALD/ITALD

Range requirement. Inert or live ordnance range

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-6730 0.0 1095 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in towing the banner.

Requirement. Tow the banner.

Ordnance. One banner

ASWD-6731 0.0 90 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in carriage of an AIM-9 captive air training missile (CATM).

Requirement. Carry a CATM-9.

Ordnance. One functional CATM-9

ASWD-6732 0.0 90 B,R,M A 1 FA-18A/C/D

Goal. Track proficiency in carriage of an AIM-120 captive air training missile (CATM).

Requirement. Carry a CATM-120.

Ordnance. One functional CATM-120

SSWD-6733 0.0 15 B,R,M NS A 1 FA-18A/C/D

Goal. Track proficiency in firing the M61A1 20mm Gun at a surface target at night.

Requirement. Must successfully employ the gun at night on two separate runs against a surface target for completion.

Ordnance. At least 250 20mm

Prerequisite. 6701

Range requirement. STRAFE

LASWD-6734 0.0 * B,R G AIR-TO-AIR BRIEFING LAB

Goal. Track attendance of an air to air briefing lab.

Requirement. Conduct an air to air briefing lab.

SSWD-6735 0.0 15 B,R,M (NS) A 1 FA-18A/C/D

Goal. Track proficiency in day / night dive deliveries.

Requirement. Must successfully execute a day or night dive delivery.

Ordnance. Simulated or actual dive delivered ordnance

2.19 MISSION ESSENTIAL TASK (MET) PHASE (7000)

2.19.1 Purpose

To assess CMMR representative crews during the execution of the unit's specified METs in order to ensure standardization and combat readiness.

To fulfill the requirements of a Marine Corps Combat Readiness Evaluation (MCCRE) as specified in MCO 3502.1, Marine Corps Combat Readiness Evaluation.

2.19.2 General

Prerequisite. Aircrew assessed during this phase shall meet the requirements of a Force Generation Order. The crews should be comprised of deploying personnel to the maximum extent practical.

Admin Notes

The proficiency period for conducting elements of the 7000 phase are:

No less than once every 2 years for active components.

Units not scheduled to be assessed at a service level training venue (i.e. ITX, MTNEX, TALONEX) shall conduct elements of the 7000 phase as a minimum requirement for a unit to deploy.

The MAW Flight Leadership Standardization and Evaluation (FLSE) cadre is the resource used to assess Type/ Model/ Series units for MET capability in accordance with the MCCRE Order. The unit's assessor will be designated at the Wing level of the unit to be assessed.

Events in this Phase normally require a Force Generation Order prior to commencing the 7000 Stage. Once a unit deploys, is removed from the Force Generation Order, or completes the required 7000-Stage, 7000 Phase currency no longer needs to be maintained.

Multiple Events may be accomplished during the same sortie.

Results of the MCCRE assessment shall be formatted per Appendix D, 3500.14D and submitted to CG, MCCDC (via AMHS message attachment to CG TECOM MTESD) no later than 45 days after MCCRE completion.

2.19.3 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training. Only METs required per the Force Generation Order shall be evaluated.

MCCRE TABLE:

EVENT	STAGE NAME
MET-7001	CONDUCT CLOSE AIR SUPPORT
MET-7002	CONDUCT STRIKE COORDINATION AND RECONNAISSANCE
MET-7003	CONDUCT ACTIVE AIR DEFENSE
MET-7004	CONDUCT SUPPRESSION OF ENEMY AIR DEFENSES
MET-7005	CONDUCT OFFENSIVE ANTI-AIR WARFARE
MET-7006	CONDUCT STRIKE
MET-7007	CONDUCT FORWARD AIR CONTROL (AIRBORNE)
MET-7008	CONDUCT TACTICAL COORDINATION (AIRBORNE)
MET-7009	CONDUCT AVIATION OPERATIONS FROM EXPEDITIONARY SHORE-BASED SITES
MET-7010	CONDUCT AVIATION OPERATIONS FROM EXPEDITIONARY SEA-BASED SITES
MET-7011	CONDUCT MULTI-SENSOR IMAGERY RECONNAISSANCE

MET-7012	CONDUCT AERIAL ESCORT
MET-7013	CONDUCT ATTACK ENEMY MARITIME TARGETS

2.19.4 MISSION ESSENTIAL TASK (MET) STAGE

Purpose. To assess squadrons or detachments executing community specific MET(s) or MET preparatory Events.

General

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Crew Requirements. The participants required for the 7000 Phase are the evaluated unit and the assessor. The crew requirement is based on the specific event. The assessment shall be conducted from a crew position of the assessor’s T/M/S. At the discretion of the assessor, observation of mission planning, briefing/debriefing, and execution from an OP may satisfy a portion of the assessment.

Respectively, the primary, alternate, and tertiary assessors shall be a MATSS representative, WTI (FLSE) from within the parent command designated by the owning Wing, or MAWTS-1 representative. The number of crews evaluated will be based on a percentage required to deploy per the Force Generation Order.

MET-7001 1.3 730 (NS) A 2+ FA-18A/C/D

Goal. Conduct Close Air Support

Requirement. Demonstrate the ability to conduct Close Air Support.

Performance Standard. Conduct Close Air Support per MCT 3.2.3.1.1 and the FA-18 specific T&R.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Prerequisites. Per applicable FA-18 T&R event.

Ordnance. Per applicable FA-18 T&R event.

Range Requirement. Per applicable FA-18 T&R event.

External Syllabus Support. Per applicable FA-18 T&R event.

Crew. Per applicable FA-18 T&R event.

Reference. Per applicable FA-18 T&R event.

MET-7002 1.3 730 (NS) A 2+ FA-18A/C/D

Goal. Conduct Strike Coordination and Reconnaissance

Reference. Per applicable FA-18 T&R event.

MET-7007 1.3 730 (NS) A 2+ FA-18D

Goal. Conduct Forward Air Control (Airborne)

Requirement. Demonstrate the ability to conduct Forward Air Control (Airborne).

Performance Standard. Conduct Forward Air Control (Airborne) per MCT 3.2.5.4 and the FA-18 specific T&R.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Prerequisites. Per applicable FA-18 T&R event.

Ordnance. Per applicable FA-18 T&R event.

Range Requirement. Per applicable FA-18 T&R event.

External Syllabus Support. Per applicable FA-18 T&R event.

Crew. Per applicable FA-18 T&R event.

Reference. Per applicable FA-18 T&R event.

MET-7008 1.3 730 (NS) A 2+ FA-18D

Goal. Conduct Tactical Coordination (Airborne)

Requirement. Demonstrate the ability to conduct Tactical Coordination (Airborne).

Performance Standard. Conduct Tactical Coordination (Airborne) per MCT 5.3.2.7.3 and the FA-18 specific T&R.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Prerequisites. Per applicable FA-18 T&R event.

Ordnance. Per applicable FA-18 T&R event.

Range Requirement. Per applicable FA-18 T&R event.

External Syllabus Support. Per applicable FA-18 T&R event.

Crew. Per applicable FA-18 T&R event.

MET-7009 1.3 730 (NS) A 2+ FA-18D

Goal. Conduct aviation operations from expeditionary shore-based sites

Requirement. Demonstrate the ability to conduct EXP.

Performance Standard. Conduct EXP per MCT 1.3.3.3.2 and the FA-18 specific T&R.

2.20 T&R SYLLABUS MATRICES

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
2000 FAM	AFAM	JMPS PLANNING	2001	X				1.5					G			*						2001	
	SFAM	EP SIM	2101	X	X	X				1.0		(N)	S	1		90					X	2101	
	FAM	DAY FAM/V0/V1/AWI	2102	X	X	X					1.3	D	A	1+		30	2101					2102	
2000 FAM SKILL TOTAL							1	1.5	1	1.0	1	1.3											
2000 AAR	AAR	DAY AAR	2201	X	X						1.3	D	A	1+		365	2102	2102				2201	
	AAR	NIGHT AAR	2202	X	X	X					1.3	N	A	1+		365	2201, 2401-2405	2102,2201,2402~NS	NSI			2202	
2000 AAR SKILL TOTAL											2	2.6											
2000 AS	AAS	SAT&C	2002	X				1.0					G			*						2002	
	AAS	EW SUITE	2003	X				2.0					G			*						2003	
	AAS	NON-RF SAMS & ADA	2004	X				1.0					G			*						2004	
	AAS	RF SAMS	2005	X				1.0					G			*						2005	
	AAS	SAM MISCONCEPTIONS BY KURT WALDRON	2006	X				3.0					G			*						2006	
	AAS	BOMBS, FINS, & FUZES	2007	X				1.5					G			*						2007	
	AAS	TARGET ATTACK PLANNING	2008	X				2.0					G			*						2008	
	AAS	WEAPONNEERING	2009	X				2.0					G			*						2009	
	AAS	A/G GUNNERY	2010	X				2.0					G			*						2010	
	AAS	LPOD	2011	X				2.0					G			*						2011	
	AAS	ATFLIR	2012	X				2.0					G			*						2012	
	AAS	LASER GUIDED WEAPONS	2013	X				2.5					G			*						2013	
	AAS	NAVIGATIONAL WARFARE	2014	X				2.0					G			*						2014	
	AAS	GPS WEAPONS: JDAM/LJDAM	2015	X				2.0					G			*						2015	
	SAS	HI/MED/LOW ANGLE DIVE/BUNT (GP/CBU/ROCKETS/GUN)	2301	X						1.5		(NS)	S	1+		*						FAI*	2301
	SAS	SGL/SEC POP MED/LOW ANGLE DIVE/BUNT/STRAFE (GP/ROCKETS/GUN)	2302	X	X					1.5		(NS)	S	2	X	180	2301					FAI*	2302
	AS	DIVE DELIVERIES (GP/STRAFE)	2303	X	X	X					1.3	(NS)	A	2+		180	2102,2301	2102,2302,2402~NS, 6735, 6701				FAI*	2303
	AS	LOW ANGLE DIVE SGL/SEC POP (GP)	2304	X	X	X					1.3	(NS)	A	2		180	2302	2102,2302, 2402~NS, 6735				FAI*	2304
	SAS	SACT SIM	2305	X	X	X				1.0		(NS)	S	2+	X	180	2301					FAI*	2305
	AS	SACT FLIGHT	2306	X	X	X					1.3	(NS)	A	2		540	2305	2102,2305				FAI*	2306
	SAS	TPOD/LGB/LMAV SIM	2307	X						1.0		(NS)	S	1+		*						FAI*	2307
SAS	TPOD/JDAM/LJDAM SIM	2308	X						1.0		(NS)	S	1+		*	2307					FAI*	2308	
SAS	BUDDY LASE / BOMB (LGW) TPOD SIM	2309	X	X	X				1.5		(NS)	S*	2+	X	365	2307					FAI*	2309	
AS	BUDDY LASE /BOMB (IAM) TPOD	2310	X							1.3	(NS)	A	2+	-	*	2102,2309					FAI*	2310	
AS	LMAV/APKWS	2311	X	X	X					1.3	(NS)	A	2+		365	2102, 2307, 2309	2309				FAI*	2311	
2000 AS SKILL TOTAL							14	26.0	6	7.5	5	6.5											

VMFA FA-18A++/C T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
2000 NS	ANS	NS TACTICAL CONSIDERATIONS	2016	X				1.5						G			*			MAWTS-1			2016
	SNS	NS FAM SIM*	2401	X					1.0				NS	S	2	X	*	2102		NSI			2401
	NS	FAM/FORM/AWI*	2402	X	X	X					1.3		NS	A	2		180	2102,2401	2102	NSI			2402
	NS	SEC DELIVERIES (LGW/IAM)	2403	X							1.3		NS	A	2		*	2310,2402	2102,2309,2402	NSI			2403
	NS	2V2 INTERCEPTS	2404	X							1.3		NS	A	2		*	2402,2507	2102,2402,2507	NSI			2404
	NS	MED ANGLE DIVE/POP/STRAFE (GP/GUN)	2405	X	X						1.3		NS	A	2			2303,2304,2404	2102,2303,2304, 2402, 6701, 6735	NSI			2405
2000 NS SKILL TOTAL							1	1.5	1	1.0	4	5.2											
2000 AA	AAA	A/A GUNNERY	2017	X				1.5						G			*			MAWTS-1			2017
	AAA	AIM-9	2018	X				2.0						G			*			MAWTS-1			2018
	AAA	AIM-120	2019	X				3.0						G			*			MAWTS-1			2019
	AAA	OFFENSIVE BFM	2020	X				2.0						G			*			TOPGUN			2020
	AAA	DEFENSIVE BFM	2021	X				2.0						G			*			TOPGUN			2021
	AAA	HIGH ASPECT BFM	2022	X				2.0						G			*			TOPGUN			2022
	AAA	SECTION ENGAGED MANEUVERING	2023	X				2.5						G			*			MAWTS-1			2023
	AAA	FA-18 A/A MISSION PLANNING	2024	X				2.0						G			*			MAWTS-1			2024
	AAA	FA-18 A/A EMPLOYMENT	2025	X				7.0						G			*			MAWTS-1			2025
	AAA	RADAR EMPLOYMENT	2026	X				2.0						G			*			MAWTS-1			2026
	AAA	COMBAT SYSTEMS	2027	X				3.0						G			*			MAWTS-1			2027
	AAA	THREAT AIRCRAFT AND A/A MISSILES	2028	X				1.5						G			*			VMFT-401			2028
	AAA	3-1 AIR INTERCEPT CONTROL	2029	X				1.5						G			*			MAWTS-1			2029
	AA	1V1 OFFENSIVE BFM	2501	X	X	X					1.3		D	A	2		180	2102	2102	FAI*			2501
	AA	1V1 DEFENSIVE BFM	2502	X	X	X					1.3		D	A	2		180	2501	2102	FAI*			2502
	AA	1V1 NEUTRAL BFM (HA/ROLLER)	2503	X	X	X					1.3		D	A	2		90	2502	2102	FAI*			2503
	AA	1V1 DISSIMILAR BFM	2504	X	X	X					1.3		D	A	1+		365	2503	2102,2503	FAI*			2504
	SAA	BVR RADAR (L&D) SIM	2505	X						1.0			D	S	1		*	2102		FAI*			2505
SAA	SEC BVR (L&D) VID SIM	2506	X						1.0			D	S	2	X	*	2505		FAI*			2506	
SAA	SEC BVR (L&L&D) SIM	2507	X	X	X				1.0			D	S*	2+	X	365	2506		FAI*			2507	
AA	2V1 OR 2V2 SEM/TAP-THE-CAP (DISSIMILAR)	2508	X	X	X						1.3	D	A	2	X	180	2507	2102	FAI*			2508	
AA	2V2 BVR (L&D)	2509	X								1.3	D	A	2	X	*	2504,2507	2102	FAI*			2509	
2000 AA SKILL TOTAL							13	32.0	3	3.0	6	7.8											

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
2000 LAT	ALAT	LAT PART I: PHILOSOPHY & CONCEPTS	2030	X				1.5					G			*			MAWTS-1			2030	
	ALAT	LAT PART II: RISK ASSESSMENT	2031	X				1.5					G			*			MAWTS-1			2031	
	ALAT	LAT PART III: BASIC & SECTION MANEUVERING	2032	X				1.5					G			*			MAWTS-1			2032	
	ALAT	LAT PART IV: ADVANCED MANEUVERING	2033	X				1.5					G			*			MAWTS-1			2033	
	SLAT	LAT SIM*	2601	X	X					1.0			D	S	1+		365	2304,2306	2302	LATI			2601
	LAT	SGL SHIP LAT (2/3D TRXN, TGT ATTACK)*	2602	X								1.3	D	A	2	X	*	2601	2102,2304,2306, 6735	LATI			2602
	LAT	SEC LAT (TRXN, TGT ATTACK)*	2603	X	X	X						1.3	D	A	2	X	365	2602	2102,2302,2304,2306,2601, 6735	LATI			2603
2000 LAT SKILL TOTAL							4	6.0	1	1.0	2	2.6											
2000 PHASE TOTAL							33	67.0	12	13.5	20	26.0											
3000 CAS	ACAS	CAS	3001	X				1.0					G			*			MAWTS-1			3001	
	ACAS	CAS EXECUTION	3002	X				1.0					G			*			MAWTS-1			3002	
	ACAS	FA-18 CAS	3003	X				2.5					G			*			MAWTS-1			3003	
	ACAS	URBAN CAS	3004	X				1.0					G			*			MAWTS-1			3004	
	ACAS	DCS/VMF	3005	X				1.0					G			*			MAWTS-1			3005	
	SCAS	GP CAS SIM	3101	X	X					1.0			D	S	2	X	365	2304		FAI*			3101
	SCAS	PGM CAS SIM	3102	X	X	X				1.0			(NS)	S*	2	X	180	3101,2310		FAI*			3102
	CAS	DAY GP CAS	3103	X	X	X					1.3		D	A	2		365	3101	2102,2303,3101,6735	FAI*			3103
	CAS	DAY PGM CAS	3104	X							1.3		D	A	2		*	3102	2102,3102,	FAI*			3104
	CAS	URBAN CAS	3105	X	X	X					1.3		(NS)	A	2		365	3104	2102,2402~NS, 3102	FAI*			3105
CAS	NIGHT CAS	3106	X	X	X					1.3		NS	A	2		180	3104	2102,2402, 3102	FAI*			3106	
3000 CAS SKILL TOTAL							5	6.5	2	2.0	4	5.2											
3000 SCAR	AAR	AR/SCAR	3006	X				2.0					G			*			MAWTS-1			3006	
	SAR	AR (GP/PGM) SIM	3201	X	X				1.0				(NS)	S*	2	X	365	2304,2305,2310		DL*		3201	
	AR	DAY AR	3202	X	X	X					1.3		D	A	2		365	3201	2102,3201	DL*		3202	
	AR	NIGHT AR	3203	X	X	X					1.3		NS	A	2		180	3202	2102,3201,3202,2402	DL*		3203	
3000 AR SKILL TOTAL							1	2.0	1	1.0	2	2.6											
3000 SCAR	SSCAR	SCAR SIM	3301	X	X	X			1.0				(NS)	S*	2+	X	180	3202	3201	DL*		3301	
	SCAR	SCAR	3302	X	X	X					1.3		NS	A	2+		365	3301	2102,2402, 3301	DL*		3302	
3000 SCAR SKILL TOTAL							0	0.0	1	1.0	1	1.3											
3000 AAD	AAAD	FTR ATK MSNS:DCA PLAN	3007	X				2.5					G			*			MAWTS-1			3007	
	SAAD	SEC DAY DCA	3401	X	X				1.0				D	S	2+	X	365	2509		DL-FAI*		3401	
	AAD	SEC DAY DCA	3402	X						1.3			D	A	2+		*	3401	2102	DL-FAI*		3402	
	SAAD	DIV DAY DCA	3403	X	X	X			1.0				D	S*	4	X	180	3402	3401, 2507	DL-FAI*		3403	
	SAAD	DIV NIGHT DCA	3404	X	X	X			1.0				NS	S	4	X	180	3403		DL-FAI*		3404	
	AAD	DIV NIGHT DCA	3405	X	X	X					1.3		NS	A	4	X	180	3404	2102,2402,3404	DL-FAI*		3405	
3000 AAD SKILL TOTAL							1	2.5	3	3.0	2	2.6											

VMFA FA-18A++/C T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
3000 SEAD	ASEAD	HARM HARDWARE/SOFTWARE	3010	X				1.0						G			*						3010
	ASEAD	HARM MODES OF OPS	3011	X				1.0						G			*			MAWTS-1			3011
	ASEAD	HARM TAILORING	3012	X				1.0						G			*			MAWTS-1			3012
	ASEAD	SEAD PLANNING	3013	X				3.0						G			*			MAWTS-1			3013
	ASEAD	THREAT IADS	3014	X				1.5						G			*			MAWTS-1			3014
	ASEAD	GPS WEAPONS: JSOW	3015	X				1.0						G			*			MAWTS-1			3015
	ASEAD	AARGM	3016	X				1.0						G			*			MAWTS-1			3016
	SSEAD	JSOW A/C SIM	3501	X	X	X				1.0			(NS)	S*	1+		365			FAI*			3501
	SSEAD	HARM / AARGM	3502	X	X	X				1.0			(NS)	S*	1+		180			FAI*			3502
SEAD	HARM / AARGM	3503	X	X	X					1.3		(NS)	A	1+		365	3502	2102,2402~NS 3502	FAI*			3503	
3000 SEAD SKILL TOTAL							7	9.5	2	2.0	1	1.3											
3000 OAAW	AOAAW	FIGHTER ATTACK MSNS	3017	X				2.0						G			*			MAWTS-1			3017
	AOAAW	COMMAND & CONTROL	3018	X				1.5						G			*			MAWTS-1			3018
	AOAAW	THREAT PILOT & TACTICS	3019	X				1.5						G			*			VMFT-401			3019
	SOAAW	SWEEP SIM	3601	X						1.0			(NS)	S	4	X	*	2509		DL-FAI*			3601
	OAAW	SWEEP	3602	X	X	X					1.3		(NS)	A	4		365	3601	2102,2402~NS ,2507	DL-FAI*			3602
	SOAAW	CLOSE ESCORT SIM	3603	X	X	X				1.0			(NS)	S*/A	4	X	180	2509		DL-FAI*			3603
	OAAW	SCREEN	3604	X	X	X					1.3		(NS)	A	4		365	3603	2102,2402~NS	DL-FAI*			3604
3000 OAAW SKILL TOTAL							3	5.0	2	2.0	2	2.6											
3000 STK	ASTK	STRIKE	3020	X				2.5						G			*			MAWTS-1			3020
	ASTK	TACAIR MISSION COMMANDING	3021	X				2.0						G			*			MAWTS-1			3021
	ASTK	LASER GUIDED WEAPONS	3022	X				2.0						G			*			MAWTS-1			3022
	ASTK	STANDOFF WEAPONS: SLAM-ER	3023	X				1.5						G			*			TOPGUN			3023
	SSTK	SECTION AI SIM	3701	X						1.0			(NS)	S	2	X	*	2310,2509	2302,2507	DL-FAI*			3701
	STK	LOW ALT STK	3702	X							1.3		D	A	2+		*	3701	2102,2304,2306, 2507,2509,3701	DL-FAI*			3702
	SSTL	DIVISION STK SIM	3703	X	X	X				1.0			(NS)	S*	4	X	180	2310,2507	2302,2507	DL-FAI*			3703
	STK	DAY MED ALT STK	3704	X	X	X					1.3		D	A	4		365	3703	2102,2306,2310,2507, 2509,~3703	DL-FAI*			3704
	STK	NIGHT MED ALT STK	3705	X	X	X					1.3		NS	A	4		180	3704,8300-8351	2306,2402,3703	DL-FAI*			3705
3000 STK SKILL TOTAL							4	8.0	2	2.0	3	3.9											
3000 PHASE TOTAL							21	33.5	13	13.0	15	19.5											
4000 SEA	SFCLP/CQ	CASE I AND III SIM	4101	X	X					1.0			(N)	S	1+		365	2102	2101	LSO			4101
	FCLP/CQ	DAY FCLP	4102	X	X						1.0		D	A	1+		365	2102,4101	2102	LSO			4102
	FCLP/CQ	NIGHT FCLP	4103	X	X	X					1.0		N	A	1+		365	2102,4102	2102,4102	LSO			4103
	FCLP/CQ	DAY FCLP/CQ	4104	X	X						1.0		D	A	1+		365	2102,4102	2102,4101,4102	LSO			4104
	FCLP/CQ	NIGHT FCLP/CQ	4105	X	X	X					1.0		N	A	1+		365	2102,4103,4104	2102,4101,4102,4103, 4104	LSO			4105
4000 FCLP/CQ SKILL TOTAL							0	0.0	1	1.0	4	4.0											
4000 MIR	MIR	INTRO MIR	4201	X	X	X					1.3		(NS)	A	1+		365	3201	2102	SL			4201
4000 MIR SKILL TOTAL							0	0.0			1	1.3											

VMFA FA-18A++/C T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV	
				B	R		#	TIME	#	TIME	#	TIME												
4000 AESC	AAESC	CONVOY ESCORT	4002	X				1.0						G						MAWTS-1			4002	
	AAESC	ASSAULT SUPPORT ESCORT	4003	X				1.0						G						MAWTS-1			4003	
	AAESC	SUPPORTED UNIT CAPABILITIES	4004	X				1.0						G						MAWTS-1			4004	
	AAESC	ROTARY WING THREAT	4005	X				1.0						G						MAWTS-1			4005	
	SAESC	CONVOY ESCORT SIM	4301	X	X	X				1.0				(NS)	S	2	X	540	3203		FAI*			4301
	AESC	ASSAULT SPT ESCORT	4302	X	X	X						1.3		(NS)	A	2		540	3203	2102,2402~NS 3603	FAI*			4302
	AESC	FAC(A) ESCORT	4303	X								1.3		(NS)	A	1		*	2102	2102,2402~NS	FAI*			4303
	AESC	HELO/PROP ATTACK	4304	X	X	X				1.3		1.3		D	A	1+		365	2501, 2502, 2503	2102, 2503, 2504	FAI*			4304
4000 AESC SKILL TOTAL							4	4.0	2	2.3	3	3.9												
4000 AMT	SAMT	MINE LAYING OPS SIM	4401	X						1.0			(NS)	S	1+		*			FAI*			4401	
	SAMT	SLAM-ER/HARPOON SIM	4402	X	X	X				1.0			(NS)	S*/A	2	X	365			FAI*			4402	
	AMT	(SSC)	4403	X	X	X					1.3		(NS)	A	2		365	3203	2102,3202,2402~NS,3203~NS	FAI*			4403	
	AMT	(WASEX)	4404	X	X	X					1.3		(NS)	A	2		365	3704,3705~NS	2102,3704,2402~NS,3705~NS, 4403	FAI*			4404	
4000 AMT SKILL TOTAL							0	0.0	2	2.0	2	2.6												
4000 FI	AFI	FIGHTER INTEGRATION	4006	X							1.0			G						MAWTS-1			4006	
	SFI	DIVISION FI SIM	4501	X	X					1.0			(NS)	S*	4		365	3405		DL-FAI*			4501	
	FI	DIVISION FI	4502	X	X	X					1.3		(NS)	A	4		365	3405	3404~NS,2402~NS,3405~NS, 4501	DL-FAI*			4502	
4000 FI SKILL TOTAL							0	0.0	1	1.0	2	2.6												
4000 NSLAT	ANSLAT	NIGHT LAT CONSIDERS	4007	X				1.0					G							MAWTS-1			4007	
	SNSLAT	TARGET ATTACKS	4701	X						1.0			NS	S	1+		*	2306,2405,2603	2601	NSLATI			4701	
	NSLAT	SINGLE SHIP 2D LAT	4702	X							1.3		NS	A	2		*	2402,2602,4701	2102,2402,2603	NSLATI			4702	
	NSLAT	SECTION 2D LAT	4703	X	X	X						1.3		NS	A	2		365	4702	2102,2402,2603	NSLATI			4703
4000 NSLAT SKILL TOTAL							1	1.0	1	1.0	2	2.6												
4000 EXP	SEXP	DAY EAF	4901	X						1.0			D	S	1		*	2102		FAI*			4901	
	SEXP	NIGHT EAF	4902	X	X	X					1.0		N	S	1		365	4901		FAI*			4902	
4000 EXP SKILL TOTAL							0	0.0	2	2.0	0	0.0												

VMFA FA-18A++/C T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
4000 FAC(A)	AFAC(A)	JCAS, JFAC(A) OVERVIEW	3024	X				1.0						G			*			JFAC(A)			3024
	AFAC(A)	JOINT C2 STRUCTURES	3025	X				1.0						G			*			JFAC(A)			3025
	AFAC(A)	FSCMS	3026	X				1.0						G			*			JFAC(A)			3026
	AFAC(A)	JTAC EQUIPMENT	3027	X				1.0						G			*			JFAC(A)			3027
	AFAC(A)	INTRO TO AVIATION ORD	3028	X				1.0						G			*			JFAC(A)			3028
	AFAC(A)	A/C / SENSOR CAPABILITIES	3029	X				1.0						G			*			JFAC(A)			3029
	AFAC(A)	INTRO TO IDF ASSETS	3030	X				1.0						G			*			JFAC(A)			3030
	AFAC(A)	CALL FOR FIRE	3031	X				2.0						G			*			JFAC(A)			3031
	AFAC(A)	FAC(A) PLANNING & PREP	3032	X				1.0						G			*			JFAC(A)			3032
	AFAC(A)	JOINT TACTICAL AIRSTRIKE REQUEST	3033	X				1.0						G			*			JFAC(A)			3033
	AFAC(A)	CONTROLLING CAS AS A FAC(A)	3034	X				2.0						G			*			JFAC(A)			3034
	AFAC(A)	INTRO TO FIXED WING CAS TACTICS	3035	X				1.0						G			*			JFAC(A)			3035
	AFAC(A)	ATTACK HELO EMPLOYMENT	3036	X				1.0						G			*			JFAC(A)			3036
	AFAC(A)	NIGHT CONSIDERATIONS	3037	X				1.0						G			*			JFAC(A)			3037
	AFAC(A)	URBAN FAC(A) CONSIDERATIONS	3038	X				1.0						G			*			JFAC(A)			3038
	AFAC(A)	SEAD/EW INTEGRATION	3039	X				1.0						G			*			JFAC(A)			3039
	AFAC(A)	FRATRICIDE PREVENTION	3040	X				1.0						G			*			JFAC(A)			3040
	AFAC(A)	JPUB 3-09.3, CAS	3041	X				1.0						G			*			MAWTS-1			3041
	AFAC(A)	JFIRE MTTP	3042	X				1.0						G			*			MAWTS-1			3042
	AFAC(A)	USMC FA-18 TACSOP CH 5, CAS	3043	X				1.0						G			*			MAWTS-1			3043
	AFAC(A)	JFAC(A) MOA	3044	X				1.0						G			*			MAWTS-1			3044
	SFAC(A)	FW (GP) INTRODUCTIONS	4801	X	X	X				1.5				D	S	2+	365	6312		FAC(A)I			4801
	SFAC(A)	FW (PGM) URBAN	4802	X						1.5				D	S	2+	*	4801		FAC(A)I			4802
	FAC(A)	AIRSPOT	4803	X								1.3	(NS)	A/S	1+	*	2102		2102,2402~NS	FAC(A)I			4803
	FAC(A)	FW (GP) MED THREAT	4804	X								1.3	(NS)	A	1+	*	4802		2102,2402~NS,3106~ NS	FAC(A)I			4804
	FAC(A)	FW (PGM/IAMs) LOW THREAT	4805	X	X	X						1.3	NS	A	1+	365	4804		2102,2402, 3106	FAC(A)I			4805
	FAC(A)	RW CONTROL	4806	X	X	X						1.3	(NS)	A	1+	365	4802		2102,2402~NS,3106~ NS	FAC(A)I			4806
	SFAC(A)	CONTESTED	4807	X						1.5				(NS)	S	2+	*	4806		FAC(A)I			4807
	SFAC(A)	MULTI-ELEMENT INTEGRATION	4808	X	X	X				1.5				NS	S	2+	365	4807		FAC(A)I			4808
	FAC(A)	CONTESTED	4809	X	X	X						1.3	(NS)	A	1+	365	4808		2102,2402~NS, 3106~NS	FAC(A)I			4809
	FAC(A)	ADV WEATHER/HIGH THREAT	4810	X								1.3	D	A	1+	*	6207		2102, 2304	FAC(A)I			4810
	FAC(A)	UAS/UCAV INTEGRATION	4811	X								1.3	(NS)	A	1	*	6207		2102,2402~NS	FAC(A)I			4811
	FAC(A)	NSFS AIRSPOT	4812	X								1.3	(NS)	A/S	1	*	6207		2102,2402~NS	FAC(A)I			4812
FAC(A)	AC-130/HARVEST HAWK INTEGRATION	4813	X								1.3	(NS)	A/S	1	*	6207		2102,2402~NS	FAC(A)I			4813	
4000 FAC(A) SKILL TOTAL							21	23.0	4	6.0	9	11.7											

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV	
				B	R		#	TIME	#	TIME	#	TIME												
5000 LATI	SLATI	IAW MAWTS-1 LATI PROGRAM GUIDE	5101	X					1.0				D	S	2	X	*	2603	2302,2601	LATI			5101	
	LATI		5102	X									D	A	2		*	5101	2102,2603,2304,2306	LATI			5102	
	LATI		5103	X									D	A	2		*	5102	2102,2603,2304,2306	LATI			5103	
	LATI		5104	X	X								D	A	2			540	5103	2102,2603,2304,2306	LATI STAN			5104
	SLATI STAN EVALUATOR		5105	X	X					1.0				D	S	2	X	540	5104	2102,2601	MAWTS-1			5105
5000 LATI SKILL TOTAL							0	0.0	2	2.0	3	3.9												
5000 NSLATI	SNSLATI	IAW MAWTS-1 NSLATI PROGRAM GUIDE	5201	X					1.0				NS	S	2	X	*	4703,5104	2302,2601,4701	NSLATI			5201	
	NSLATI		5202	X									NS	A	2		*	5201	2102,2304,2306,2402,2603,4703	NSLATI			5202	
	SNSLATI		5203	X						1.0				NS	S	2		*	5202	2302,2601,4701	NSLATI STAN			5203
	NSLATI		5204	X	X								NS	A	2			540	5203	2102,2304,2306,2402,2603,4703	NSLATI STAN			5204
5000 NSLATI SKILL TOTAL							0	0.0	2	2.0	2	2.6												
FAC(A)I	SFAC(A)I	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	5301	X	X				1.5				(NS)	S	2	X	540	4812	4802,4809,4810	MAWTS-1			5301	
	FAC(A)I		5302	X									(NS)	A	2		*	4812	2102,2402-NS 3102,3202,3203-NS 4802,4804,4808-NS 4810,4812	MAWTS-1			5302	
	FAC(A)I		5303	X									NS	A	2		*	4812	2102,2402,3102,3202,3203,4802,4804,4808,4810,4812	MAWTS-1			5303	
5000 FAC(A)I SKILL TOTAL							0	0.0	1	1.5	2	2.6												
5000 FAI	SFAI	IWA MAWTS-1 FAI PROGRAM GUIDE	5401	X					1.0				D	S	2	X	*	6312	3102	FLSE/WTI			5401	
	FAI		5402	X									D	A	2		*	6312	2102, 2501	MDTI/ SFTI/WTI			5402	
	FAI		5403	X									D	A	2		*	6312	2102, 2502	MDTI/ SFTI/WTI			5403	
	FAI		5404	X									D	A	2		*	6312	2102,2503	MDTI/ SFTI/WTI			5404	
	FAI		5405	X									D	A	2		*	6312	2102,2508	MDTI/ SFTI/WTI			5405	
	SFAI		5406	X	X					1.3				D	S	2	X	540	5401	3102	MAWTS-1			5406
	LFAI		5407	X	X				1.3					D	G			540	6312		MAWTS-1			5407
	LFAI		5408	X	X				1.3					D	G			540	6312		MAWTS-1			5408
	LFAI		5409	X					1.3					D	G			*	6312		MAWTS-1			5409
	FAI		5410	X										D	A	2		*	5402-3,5407-8	2102,2501,2502	MAWTS-1			5410
	FAI		5411	X										D	A	2		*	5404, 5409, 5410	2102,2503	MAWTS-1			5411
	LFAI		5412	X					1.3					D	G			*			MAWTS-1			5412
	FAI		5413	X										D	A	2		*	5405, 5412	2504, 2507, 2508	MAWTS-1			5413
	FAI		5414	X	X									D	A	2		540	5405, 5412, 5413	2504, 2507, 2508	MAWTS-1			5414
5000 FAI SKILL TOTAL							4	5.2	2	2.3	8	9.4												

VMFA FA-18A++/C T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV	
				B	R		#	TIME	#	TIME	#	TIME												
5000 FLSE	SFLSE	FLSE DEMO SIM	5601	X	X					1.5			(NS)	S	*		540			FLSE			5601	
5000 LFLSE SKILL TOTAL							0	0.0	1	1.5	0.0													
5000 NSI SKILL TOTAL	SNSI	IAW MAWTS-1 NSI PROGRAM GUIDE	5701	X						1.0			NS	S	2	X	*	6312	2305	NSI			5701	
	NSI		5702	X							1.3			NS	A	2		*	5701	2102,2402	NSI			5702
	LNSI		5703	X	X			1.5						*	G	*		540	6312		MAWTS-1			5703
	SNSI		5704	X						1.0				NS	S	2	X	*	5703	2305	MAWTS-1			5704
	NSI		5705	X	X							1.3			NS	A	2		540	5704	2102,2402	MAWTS-1		
5000 NSI SKILL TOTAL							1	1.5	2	2.0	2	2.6												
6000 RQD	RQD	SEC LEADER PROF FLT	6103	X	X	X							(NS)	A	2		540		2102,2402~NS ,6312~NS				6103	
	RQD	DIV LEADER PROF FLT	6104	X	X	X							(NS)	A	4		540		2102,2402~NS 6407				6104	
	RQD	MSN CMDR PROF FLT	6105	X	X	X							(NS)	A	6+		540		2102,2402~NS				6105	
	RQD	A/A JHMCS INTRO	6106	X	X						1.3		D	A	1+		*	2506	2102				6106	
	RQD	A/G JHMCS INTRO	6107	X	X						1.3		D	A	1+		*	2309	2102				6107	
	RQD	NVCD INTRO	6108	X	X						1.3		NS	A	1+		*	2309,2405	2402				6108	
	RQD	STAT TANKER	6109	X	X	X							(NS)	A	1+		545	2201	2102,2201,2202~NS 2402~NS				6109	
	SRQD	FCF SIM	6110	X	X	X				1.0			*	S	1		1095		2101				6110	
	RQD	STRAT TANKER (KC-135)	6111	X	X	X							(NS)	A	1+		545	2201	2102,2201,2202~NS,2402 ~NS, 6109				6111	
	RQD	ROLL-AND-GO PROF	6112	X	X	X						0.1	(NS)	A	1	90								
	RQD	DAY LFE	6147	X	X							1.3	D	A	6+		365	2000 PHASE COMPLETE	2102		MC		4601	
RQD	NIGHT LFE	6148	X	X	X						1.3	NS	A	6+		365	2000 PHASE COMPLETE	2102,2402,6147		MC		4602		
6000 RQD SKILL TOTAL							0	0.0	1	1.0	4	4.0												
6000 QUAL	QUAL	DAY CQ	6201	X	X								D	A	1+		*	4104	2102				6201	
	QUAL	NIGHT CQ	6202	X	X								N	A	1+		*	4105	2102				6202	
	QUAL	LAT QUAL	6203	X	X								D	A	2		*	2603	2102				6203	
	QUAL	NSLAT QUAL	6204	X	X								NS	A	2		*	4703	2102,2402				6204	
	QUAL	LSO QUAL	6205	X	X	X							*	G	*		1095	6201,6202,LSO REQ TRNG					6205	
	QUAL	FCF QUAL	6206	X	X						1.3		D	A	1+		*	6110	2102				6206	
	QUAL	FAC(A) QUAL	6207	X	X								(NS)	A	2		*	4809-A/C	2102,2402~NS				6207	
	QUAL	NS QUAL	6209	X	X								NS	A	2		*	2405	2102,2402~NS				6209	
QUAL	ACM QUAL	6210	X	X								(NS)	A	2		*	2509	2102				6210		
6000 QUAL SKILL TOTAL							0	0.0			1	1.3												

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
6000 SL	SL	RAKED RANGE	6301	X							1.3	D	A	2		*	2000,3000 PHASE COMPLETE	2102,2303,6701,6735	DL			6301	
	SSL	SCAR/AR SIM	6302	X					1.5			D	S	2		*	6301	3201,3301	DL			6302	
	SL	ARMED RECON	6303	X							1.3	D	A	2		*	6302	2102,2309,3202,6735	DL			6303	
	SSL	CAS (GP/PGM)	6304	X					1.5			NS	S	2		*	6302	2102,2402,3101,3102	DL			6304	
	SL FLSE	CAS (GP/PGM)	6305	X							1.3	(NS)	A	2		*	6304	2102,2402~NS,3103,3106~NS ,6735	FLSE			6305	
	SL	BFM	6306	X							1.3	D	A	2		*	6301	2102,2503,	DL			6306	
	SL	SEM	6307	X							1.3	D	A	2		*	6306	2102,2508	DL			6307	
	SL	2V2 BVR / ADVERSARY	6308	X							1.3	(NS)	A	2		*	6301	2102,	DL			6308	
	SL FLSE	2V2 BVR	6309	X							1.3	NS	A	2		*	6308	2402	FLSE			6309	
	SSL	DCA	6310	X					1.5			(NS)	S	2		*	6309	3401	DL			6310	
	SSL FLSE	STK	6311	X					1.5			NS	S	2		*	6310	2305,	FLSE			6311	
	SL	STK	6312	X	X						1.3	NS	A	2		540	6301-6311, 6131-6140, 8630,8660	2102,2306,2402,2507	CO			6312	
6000 SL SKILL TOTAL							0	0.0	4	6.0	8	10.4											
6000 DL	DL	RAKED RANGE	6401	X						1.3	D	A	4		*	6312	2102,2303,6701,6735	MDTI SFTI*				6401	
	SDL	OCA SCREEN	6402	X					1.5			(NS)	S	4		*	6401	2507	MDTI SFTI*			6402	
	SDL	DCA	6403	X					1.5			(NS)	S	4		*	6402	3403	MDTI SFTI*			6403	
	DL	DCA	6404	X						1.3		NS	A	4		*	6403	2102,2402,3403,3404	MDTI SFTI*			6404	
	SDL	LOW ALT STK	6405	X					1.5			(NS)	S	4		*	6403	2601,3701	MDTI SFTI*			6405	
	DL FLSE	MED ALT STK	6406	X						1.3		(NS)	A	4		*	6405	2102,2402~NS,3703,3704~NS	MDTI SFTI*			6406	
	DL CHECK	MED ALT STK	6407	X	X					1.3		NS	A	4		540	6141-6146, 6406,8640,8641	2102,2402,3703,3704,3705	CO*			6407	
6000 DL SKILL TOTAL							0	0.0	3	4.5	4	5.2											
6000 MC	MC	LFE DCA	6501	X						1.3	(NS)	A	8+		*	6407	2102,2402~NS,3403,3404~NS ,4601,4602 ~NS	WTI*				6501	
	MC	LFE DAY STK	6502	X						1.3	D	A	6+		*	6407	2102,3703,3704,4601	WTI*				6502	
	MC CHECK	LFE NIGHT STK	6503	X						1.3	NS	A	6+		*	6501,6502,8620	2102,2402,3703,3704,3705 ,4602	CO*				6503	
6000 MC SKILL TOTAL							0	0.0	0	0.0	3	3.9											
6000 INSTR	INSTR	WTI	6601	X											*							6601	
	INSTR	MDTI	6602	X											*							6602	
	INSTR	SFTI	6603	X											*							6603	
6000 INSTR SKILL TOTAL							0	0.0	0	0.0	0	0.0											

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV		
				B	R		#	TIME	#	TIME	#	TIME													
6000 SWD	SSWD	M61A1 20MM GUN	6701	X	X	X							(NS)	A	1		180						6701		
	SSWD	MK-76	6702	X	X	X							(NS)	A	1		90							6702	
	SSWD	BDU-45/MK-83/84 INERT	6703	X	X	X							(NS)	A	1		180		6702					6703	
	SSWD	MK-82/83/84 HE	6704	X	X	X							(NS)	A	1		180		6702,6703					6704	
	SSWD	LGTR	6705	X	X	X							(NS)	A	1		90							6705	
	SSWD	GBU-10/12/16/24 INERT	6706	X	X	X							(NS)	A	1		180		6705					6706	
	SSWD	GBU-10/12/16/24 HE	6707	X	X	X							(NS)	A	1		365		6705,6706					6707	
	SSWD	CAPTIVE GBU-31/32/38/54	6708	X	X	X							(NS)	A	1		180							6708	
	SSWD	GBU-31/32/38/54 INERT	6709	X	X	X							(NS)	A	1		180		6708					6709	
	SSWD	GBU-31/32/38/54 HE	6710	X	X	X							(NS)	A	1		365		6708,6709					6710	
	SSWD	CATM AGM-65E/E2	6711	X	X	X							(NS)	A	1		180							6711	
	SSWD	AGM-65E/E2 HE	6712	X	X	X							(NS)	A	1		1095		6711					6712	
	SSWD	ROCKETS	6713	X	X	X							(NS)	A	1		365							6713	
	SSWD	APKWS	6714	X	X	X							(NS)	A	1		365							6714	
	SSWD	ILLUM	6715	X	X	X							(NS)	A	1		365							6715	
	SSWD	CBU-99	6716	X	X	X							(NS)	A	1		365							6716	
	SSWD	MK-77	6717	X	X	X							(NS)	A	1		545							6717	
	SSWD	CAPTIVE AGM-154	6718	X	X	X							(NS)	A	1		545							6718	
	SSWD	AGM-154	6719	X	X	X							(NS)	A	1		1095		6718					6719	
	SSWD	CAPTIVE AGM-88/88E	6720	X	X	X							(NS)	A	1		180							6720	
	SSWD	AGM-88/88E HE/INERT	6721	X	X	X							(NS)	A	1		1095		6720					6721	
	SSWD	CAPTIVE AGM-84	6722	X	X	X							(NS)	A	1		545							6722	
	SSWD	AGM-84 HE/INERT	6723	X	X	X							(NS)	A	1		1095		6722					6723	
	SSWD	TALD/ITALD	6724	X	X	X							(NS)	A	1		1095							6724	
	ASWD	A/A GUNNERY (CIRCULAR)	6725	X	X	X							(NS)	A	1		730	2509						6725	
	ASWD	A/A GUNNERY (FWD QTR)	6726	X	X	X							(NS)	A	1		730	6725	6725					6726	
	ASWD	AIM-9	6727	X	X	X							(NS)	A	1		1095							6727	
	ASWD	AIM-7	6728	X	X	X							(NS)	A	1		1095							6728	
	ASWD	AIM-120	6729	X	X	X							(NS)	A	1		1095							6729	
	ASWD	BANNER TOW	6730	X	X	X							(NS)	A	1		1095							6730	
ASWD	CAPTIVE AIM-9	6731	X	X	X							(NS)	A	1		90							6731		
ASWD	CAPTIVE AIM-120	6732	X	X	X							(NS)	A	1		90							6732		
ASWD	M61A1 20MM (NIGHT)	6733	X	X	X							NS	A	1		15	6701	6701					6733		
ASWD	A/A BRIEFING LAB	6734	X	X								*	G	*		*							6734		
ASWD	DIVE DELIVERY	6735	X	X	X							(NS)	A	1		15							6735		
EXP	EXP OPERATIONS	6736	X									(N)	A	1		*	2102, 4901, 4902~N						3800		
6000 SWD SKILL TOTAL							0	0.0	0	0.0	0	0.0													

VMFA FA-18A++/C T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
6000 NTPS	NTPS	NATOPS OPEN BOOK EXAM	6801	X	X	X		1.5				*	G	*		365				X	X	6801	
	NTPS	NATOPS CLOSED BOOK	6802	X	X	X		1.0				*	G	*		365	6801			X	X	6802	
	NTPS	NATOPS ORAL EXAM	6803	X	X	X		0.5				*	G	*		365	6801,6802			X	X	6803	
	SNTPS	NATOPS EVALUATION	6101	X	X	X				1.0		(N)	S/A	1+		365	6801,6802,6803	2101,2102~A	NATOPS I/E	X	X	6101	
6000 NTPS SKILL TOTAL							3	3.0	1	1.0	0	0.0											
6000 INST	INST	IGS EXAM	6804	X	X	X		1.0				*	G	*		365				X	X	6804	
	INST	INSTRUMENT GND SCHOOL	6805	X	X	X		4.0				*	G	*		365				X	X	6805	
	SINST	INSTRUMENT EVALUATION	6102	X	X	X				1.0		(N)	S/A	1+		365	6804,6805	2102~A	NATOPS Instrument	X	X	6102	
6000 INST SKILL TOTAL							2	5.0	2	2.0	0	0.0											
6100 TRACKING	RQD	SL OVERHEAD BREAK TRACKING	6131	X							0.1	D	A	2		*							
	RQD	SL PRECISION APP TRACKING	6132	X							0.1	(N)	A	2		*							
	RQD	SL SIM NORDO APP TRACKING	6133	X							0.1	(N)	A	2		*							
	RQD	SL SIM HUNG ORD APP TRACKING	6134	X							0.1	(N)	A	2		*							
	RQD	SL STRAIGHT IN APP TRACKING	6135	X							0.1	D	A	2		*							
	RQD	SL OVERHEAD BREAK (NIGHT) TRACKING	6136	X							0.1	N	A	2		*							
	RQD	SL STRAIGHT IN APP (NIGHT) TRACKING	6137	X							0.1	N	A	2		*							
	RQD	SL SECTION LANDING TRACKING	6138	X							0.1	D	A	2		*							
	RQD	SL INTERVAL TAKEOFF TRACKING	6139	X							0.1	(N)	A	2		*							
	RQD	SL SECTION TAKEOFF TRACKING	6140	X							0.1	D	A	2		*							
	RQD	DL RADAR TRAIL DEP TRACKING	6141	X							0.1	(N)	A	3+		*							
	RQD	DL OVERHEAD BREAK TRACKING	6142	X							0.1	D	A	3+		*							
	RQD	DL SIM NORDO APP TRACKING	6143	X							0.1	(N)	A	3+		*							
	RQD	DL STRAIGHT IN APP TRACKING	6144	X							0.1	D	A	3+		*							
RQD	DL OVERHEAD BREAK (NIGHT) TRACKING	6145	X							0.1	N	A	3+		*								
RQD	DL STRAIGHT IN APP (NIGHT) TRACKING	6146	X							0.1	N	A	3+		*								
6100 TRACKING							0	0.0	0	0.0	16	1.6											

VMFA FA-18A++/C T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
7000 MET	MET	CLOSE AIR SUPPORT	7001									1.3	(NS)	A	2+		730			FLSE	X	X	7002
	MET	STRIKE COORDINATION AND RECONNAISSANCE	7002									1.3	(NS)	A	2+		730			FLSE	X	X	7004
	MET	ACTIVE AIR DEFENSE	7003									1.3	(NS)	A	2+		730			FLSE	X	X	7005
	MET	SUPPRESSION OF ENEMY AIR DEFENSES	7004									1.3	(NS)	A	2+		730			FLSE	X	X	7006
	MET	ANTI-AIR WARFARE	7005									1.3	(NS)	A	4+		730			FLSE	X	X	7007
	MET	STRIKE	7006									1.3	(NS)	A	2+		730			FLSE	X	X	7008
	MET	FORWARD AIR CONTROL (AIRBORNE)	7007									1.3	(NS)	A	4+		730			FLSE	X	X	7009
	MET	TACTICAL COORDINATION (AIRBORNE)	7008									1.3	(NS)	A	2+		730			FLSE	X	X	7010
	MET	AVIATION OPERATIONS FROM EXPEDITIONARY SHORE-BASED SITES	7009									1.3	(NS)	A	2+		730			FLSE	X	X	
	MET	AVIATION OPERATIONS FROM EXPEDITIONARY SEA-BASED SITES	7010									1.3	(NS)	A	2+		730			FLSE	X	X	
	MET	MULTI-SENSOR IMAGERY RECONNAISSANCE	7011									1.3	(NS)	A	2+		730			FLSE	X	X	
	MET	AERIAL ESCORT	7012									1.3	(NS)	A	2+		730			FLSE	X	X	
	MET	ATTACK ENEMY MARITIME TARGETS	7013									1.3	(NS)	A	2+		730			FLSE	X	X	
7000 MET SKILL TOTAL							0	0.0	0	0.0	13	16.9											
8000 ACPM	ACPM	MACCS AGENCIES, FUNC	8200	X				0.5						G			*						8200
	ACPM	MWCS BRIEF	8201	X				0.5						G			*						8201
	ACPM	ACA AND AIRSPACE	8202	X				0.8						G			*						8202
	ACPM	AVIATION GROUND SUPP	8210	X				0.7						G			*						8210
	ACPM	ACE BATTLESTAFF	8230	X				1.0						G			*						8230
	ACPM	BATTLE COMMAND DISPL	8231	X				1.0						G			*						8231
	ACPM	SIX FUNCTIONS OF MAR	8240	X				1.7						G			*						8240
	ACPM	JTAR/ASR INTRO AND P	8241	X				1.3						G			*						8241
	ACPM	SITE COMMAND PRIMER	8242	X				1.0						G			*						8242
	ACPM	THEATER AIR GROUND S	8250	X				0.9						G			*						8250
	ACPM	AIR DEFENSE	8300	X				0.9						G			*						8300
	ACPM	FARP	8310	X				0.8						G			*						8310
	ACPM	USMC TAC FUEL SYSTEMS	8311	X				0.9						G			*						8311
	ACPM	JOINT STRCTR/AIR OPS	8320	X				1.0						G			*						8320
	ACPM	JOINT AIR TASKING 1	8321	X				0.4						G			*						8321
	ACPM	JOINT AIR TASKING 2	8322	X				0.4						G			*						8322
	ACPM	JOINT AIR TASKING 3	8323	X				0.4						G			*						8323
	ACPM	JOINT AIR TASKING 4	8324	X				0.4						G			*						8324
	ACPM	JOINT AIR TASKING 5	8325	X				0.4						G			*						8325
	ACPM	JOINT AIR TASKING 6	8326	X				0.4						G			*						8326
ACPM	INTGTNG FIRES/AIRSPACE	8340	X				0.5						G			*						8340	
ACPM	PHASING CTRL ASHORE	8350	X				0.9						G			*						8350	
ACPM	TACRON ORG/FUNCTIONS	8351	X				1.0						G			*						8351	

VMFA FA-18A++/C T&R MATRIX																									
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or Sim	NETWORK	REFLY	PREREQUISITE	CHAINING	Inst	EVAL	EOM	EVENT CONV		
				B	R		#	TIME	#	TIME	#	TIME													
	ACPM	ESG/CSG INTEGRATION	8620	X				1.0						G			*							8620	
	ACPM	TACC	8630	X				1.0						G			*								8630
	ACPM	JOINT DATA NETWORK	8640	X				0.9						G			*								8640
	ACPM	MAGTF THTR/ISR EMPLMNT	8641	X				1.3						G			*								8641
	ACPM	JOINT OPS INTRO	8660	X				0.5						G			*								8660
8000 ACPM SKILL TOTAL							28	22.5	0	0.0	0	0.0													
T&R TOTAL							86	127.0	58	66.5	92	117.5													

BLANK

VMFA(AW) FA-18D T&R MATRIX																											
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV				
				B	R		#	TIME	#	TIME	#	TIME															
2000 FAM	AFAM	JMPS PLANNING	2001	X				1.5						G			*						2001				
	SFAM	EP SIM	2101	X	X	X				1.0			(N)	S	1		90						2101				
	FAM	DAY FAM/1V0/1V1/AWI	2102	X	X	X					1.3			D	A	1+		30	2101				2102				
2000 FAM SKILL TOTAL							2	3.0	1	1.0	1	1.3															
2000 AAR	AAR	DAY AAR	2201	X	X						1.3		D	A	1+		365	2102	2102				2201				
	AAR	NIGHT AAR	2202	X	X	X					1.3		N	A	1+		365	2201, 2401-2405	2102,2201,2402~NS	NSI			2202				
2000 AAR SKILL TOTAL											2	2.6															
2000 AS	AAS	SAT&C	2002	X				1.0						G			*						MAWTS-1			2002	
	AAS	EW SUITE	2003	X				2.0						G			*							MAWTS-1			2003
	AAS	NON-RF SAMS & ADA	2004	X				1.0						G			*							MAWTS-1			2004
	AAS	RF SAMS	2005	X				1.0						G			*							MAWTS-1			2005
	AAS	SAM MISCONCEPTIONS BY KURT WALDRON	2006	X				3.0						G			*							MAWTS-1			2006
	AAS	BOMBS, FINS, & FUZES	2007	X				1.5						G			*							MAWTS-1			2007
	AAS	TARGET ATTACK PLANNING	2008	X				2.0						G			*							MAWTS-1			2008
	AAS	WEAPONERING	2009	X				2.0						G			*							MAWTS-1			2009
	AAS	A/G GUNNERY	2010	X				2.0						G			*							MAWTS-1			2010
	AAS	LPOD	2011	X				2.0						G			*							MAWTS-1			2011
	AAS	ATFLIR	2012	X				2.0						G			*							TOPGUN			2012
	AAS	LASER GUIDED WEAPONS	2013	X				2.5						G			*							MAWTS-1			2013
	AAS	NAVIGATIONAL WARFARE	2014	X				2.0						G			*							MAWTS-1			2014
	AAS	GPS WEAPONS: JDAM/LJDAM	2015	X				2.0						G			*							MAWTS-1			2015
	SAS	HI/MED/LOW ANGLE DIVE/BUNT (GP/CBU/ROCKETS/GUN)	2301	X							1.5			(NS)	S	1+		*						FAI*			2301
	SAS	SGL/SEC POP MED/LOW ANGLE DIVE/BUNT/STRAFE (GP/ROCKETS/GUN)	2302	X	X						1.5			(NS)	S	2	X	180	2301					FAI*			2302
	AS	DIVE DELIVERIES (GP/STRAFE)	2303	X	X	X						1.3		(NS)	A	2+		180	2102,2301	2102,2302,2402 ~NS, 6735, 6701				FAI*			2303
	AS	LOW ANGLE DIVE SGL/SEC POP (GP)	2304	X	X	X						1.3		(NS)	A	2		180	2302	2102,2302, 2402~NS, 6735				FAI*			2304
	SAS	SACT SIM	2305	X	X	X				1.0				(NS)	S	2+	X	180	2301					FAI*			2305
	AS	SACT FLIGHT	2306	X	X	X						1.3		(NS)	A	2		540	2305	2102,2305				FAI*			2306
SAS	TPOD/LGB/LMAV SIM	2307	X						1.0				(NS)	S	1+		*						FAI*			2307	
SAS	TPOD/JDAM/LJDAM SIM	2308	X						1.0				(NS)	S	1+		*	2307					FAI*			2308	
SAS	BUDDY LASE / BOMB (LGW) TPOD SIM	2309	X	X	X				1.5				(NS)	S*	2+	X	365	2307					FAI*			2309	
AS	BUDDY LASE /BOMB (IAM) TPOD	2310	X								1.3		(NS)	A	2+	-	*	2102,2309					FAI*			2310	
AS	LMAV/APKWS	2311	X	X	X						1.3		(NS)	A	2+		365	2102, 2307, 2309	2309				FAI*			2311	
2000 AS SKILL TOTAL							13	24.0	6	7.5	4	5.2															

VMFA(AW) FA-18D T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
2000 NS	ANS	NS TACTICAL CONSIDERATIONS	2016	X				1.5					G			*			MAWTS-1			2016	
	SNS	NS FAM SIM*	2401	X					1.0			NS	S	2	X	*	2102		NSI			2401	
	NS	FAM/FORM/AWI*	2402	X	X	X					1.3	NS	A	2		180	2102,2401	2102	NSI			2402	
	NS	SEC DELIVERIES (LGW/IAM)	2403	X							1.3	NS	A	2		*	2310,2402	2102,2309,2402	NSI			2403	
	NS	2V2 INTERCEPTS	2404	X							1.3	NS	A	2		*	2402,2507	2102,2402,2507	NSI			2404	
	NS	MED ANGLE DIVE/POP/STRAFE (GP/GUN)	2405	X	X	X					1.3	NS	A	2		365	2303,2304,2404	2102,2303,2304, 2402, 6701, 6735	NSI			2405	
2000 NS SKILL TOTAL							1	1.5	1	1.0	4	5.2											
2000 AA	AAA	A/A GUNNERY	2017	X				1.5					G			*			MAWTS-1			2017	
	AAA	AIM-9	2018	X				2.0					G			*			MAWTS-1			2018	
	AAA	AIM-120	2019	X				3.0					G			*			MAWTS-1			2019	
	AAA	OFFENSIVE BFM	2020	X				2.0					G			*			TOPGUN			2020	
	AAA	DEFENSIVE BFM	2021	X				2.0					G			*			TOPGUN			2021	
	AAA	HIGH ASPECT BFM	2022	X				2.0					G			*			TOPGUN			2022	
	AAA	SECTION ENGAGED MANEUVERING	2023	X				2.5					G			*			MAWTS-1			2023	
	AAA	FA-18 A/A MISSION PLANNING	2024	X				2.0					G			*			MAWTS-1			2024	
	AAA	FA-18 A/A EMPLOYMENT	2025	X				7.0					G			*			MAWTS-1			2025	
	AAA	RADAR EMPLOYMENT	2026	X				2.0					G			*			MAWTS-1			2026	
	AAA	COMBAT SYSTEMS	2027	X				3.0					G			*			MAWTS-1			2027	
	AAA	THREAT AIRCRAFT AND A/A MISSILES	2028	X				1.5					G			*			VMFT-401			2028	
	AAA	3-1 AIR INTERCEPT CONTROL	2029	X				1.5					G			*			MAWTS-1			2029	
	AA	1V1 OFFENSIVE BFM	2501	X	X	X					1.3	D	A	2		180	2102	2102	FAI*			2501	
	AA	1V1 DEFENSIVE BFM	2502	X	X	X					1.3	D	A	2		180	2501	2102	FAI*			2502	
	AA	1V1 NEUTRAL BFM (HA/ROLLER)	2503	X	X	X					1.3	D	A	2		90	2502	2102	FAI*			2503	
	AA	1V1 DISSIMILAR BFM	2504	X	X	X					1.3	D	A	1+		365	2503	2102,2503	FAI*			2504	
	SAA	BVR RADAR (L&D) SIM	2505	X						1.0		D	S	1		*	2102		FAI*			2505	
	SAA	SEC BVR (L&D) VID SIM	2506	X						1.0		D	S	2	X	*	2505		FAI*			2506	
	SAA	SEC BVR (L&L/L&D) SIM	2507	X	X	X				1.0		D	S*	2+	X	365	2506		FAI*			2507	
AA	2V1 OR 2V2 SEM/TAP-THE-CAP (DISSIMILAR)	2508	X	X	X					1.3	D	A	2	X	180	2507	2102	FAI*			2508		
AA	2V2 BVR (L&D)	2509	X							1.3	D	A	2	X	*	2504,2507	2102	FAI*			2509		
2000 AA SKILL TOTAL							13	31.5	3	3.0	6	7.8											

VMFA(AW) FA-18D T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV	
				B	R		#	TIME	#	TIME	#	TIME												
2000 LAT	ALAT	LAT PART I: PHILOSOPHY & CONCEPTS	2030	X				1.5						G			*			MAWTS-1			2030	
	ALAT	LAT PART II: RISK ASSESSMENT	2031	X				1.5						G			*			MAWTS-1			2031	
	ALAT	LAT PART III: BASIC & SECTION MANEUVERING	2032	X				1.5						G			*			MAWTS-1			2032	
	ALAT	LAT PART IV: ADVANCED MANEUVERING	2033	X				1.5						G			*			MAWTS-1			2033	
	SLAT	LAT SIM*	2601	X	X					1.0				D	S	1+		365	2304,2306	2302	LATI			2601
	LAT	SGL SHIP LAT (2/3D TRXN, TGT ATTACK)*	2602	X								1.3		D	A	2	X	*	2601	2102,2304,2306, 6735	LATI			2602
	LAT	SEC LAT (TRXN, TGT ATTACK)*	2603	X	X	X						1.3		D	A	2	X	365	2602	2102,2302,2304,2306,2601, 6735	LATI			2603
2000 LAT SKILL TOTAL							4	6.0	1	1.0	2	2.6												
2000 PHASE TOTAL							33	66.0	12	13.5	19	24.7												
3000 CAS	ACAS	CAS	3001	X				1.0						G			*			MAWTS-1			3001	
	ACAS	CAS EXECUTION	3002	X				1.0						G			*			MAWTS-1			3002	
	ACAS	FA-18 CAS	3003	X				2.5						G			*			MAWTS-1			3003	
	ACAS	URBAN CAS	3004	X				1.0						G			*			MAWTS-1			3004	
	ACAS	DCS/VMF	3005	X				1.0						G			*			MAWTS-1			3005	
	SCAS	GP CAS SIM	3101	X	X					1.0				D	S	2	X	365	2304		FAI*			3101
	SCAS	PGM CAS SIM	3102	X	X	X				1.0			(NS)	S*	2	X	180	3101,2310		FAI*			3102	
	CAS	DAY GP CAS	3103	X	X	X						1.3		D	A	2		365	3101	2102,2303,3101,6735	FAI*			3103
	CAS	DAY PGM CAS	3104	X								1.3		D	A	2		*	3102	2102,3102,	FAI*			3104
	CAS	URBAN CAS	3105	X	X	X						1.3	(NS)	A	2			365	3104	2102,2402 ~NS, 3102	FAI*			3105
CAS	NIGHT CAS	3106	X	X	X						1.3	NS	A	2			180	3104	2102,2402, 3102	FAI*			3106	
3000 CAS SKILL TOTAL							5	6.5	2	2.0	4	5.2												
3000 SCAR	AAR	AR/SCAR	3006	X				2.0						G			*			MAWTS-1			3006	
	SAR	AR (GP/PGM) SIM	3201	X	X					1.0			(NS)	S*	2	X	365	2304,2305,2310		DL*			3201	
	AR	DAY AR	3202	X	X	X						1.3		D	A	2		365	3201	2102,3201	DL*			3202
	AR	NIGHT AR	3203	X	X	X						1.3		NS	A	2		180	3202	2102,3201,3202,2402	DL*			3203
3000 AR SKILL TOTAL							2	3.0	1	1.0	2	2.6												
3000 SCAR	SSCAR	SCAR SIM	3301	X	X	X				1.0			(NS)	S*	2+	X	180	3202	3201	DL*			3301	
	SCAR	SCAR	3302	X	X	X						1.3		NS	A	2+		365	3301	2102,2402, 3301	DL*			3302
3000 SCAR SKILL TOTAL									1	1.0	1	1.3												

VMFA(AW) FA-18D T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
3000 AAD	AAAD	FTR ATK MSNS:DCA PLAN	3007	X				2.5					G			*			MAWTS-1			3007	
	SAAD	SEC DAY DCA	3401	X	X				1.0			D	S	2+	X	365	2509		DL-FAI*			3401	
	AAD	SEC DAY DCA	3402	X						1.3		D	A	2+		*	3401	2102	DL-FAI*			3402	
	SAAD	DIV DAY DCA	3403	X	X	X			1.0			D	S*	4	X	180	3402	3401, 2507	DL-FAI*			3403	
	SAAD	DIV NIGHT DCA	3404	X	X	X			1.0			NS	S	4	X	180	3403		DL-FAI*			3404	
	AAD	DIV NIGHT DCA	3405	X	X	X					1.3	NS	A	4	X	180	3404	2102,2402,3404	DL-FAI*			3405	
3000 AAD SKILL TOTAL							1	2.5	3	3.0	2	2.6											
3000 SEAD	ASEAD	HARM HARDWARE/SOFTWARE	3010	X				1.0					G			*			MAWTS-1			3010	
	ASEAD	HARM MODES OF OPS	3011	X				1.0					G			*			MAWTS-1			3011	
	ASEAD	HARM TAILORING	3012	X				1.0					G			*			MAWTS-1			3012	
	ASEAD	SEAD PLANNING	3013	X				3.0					G			*			MAWTS-1			3013	
	ASEAD	THREAT IADS	3014	X				1.5					G			*			MAWTS-1			3014	
	ASEAD	GPS WEAPONS: JSOW	3015	X				1.0					G			*			MAWTS-1			3015	
	ASEAD	AARGM	3016	X				1.0					G			*			MAWTS-1			3016	
	SSEAD	JSOW A/C SIM	3501	X	X	X			1.0			(NS)	S*	1+		365			FAI*			3501	
	SSEAD	HARM / AARGM	3502	X	X	X			1.0			(NS)	S*	1+		180			FAI*			3502	
SEAD	HARM / AARGM	3503	X	X	X					1.3	(NS)	A	1+		365	3502	2102,2402 ~NS,3502	FAI*			3503		
3000 SEAD SKILL TOTAL							7	9.5	2	2.0	1	1.3											
3000 OAAW	AOAAW	FIGHTER ATTACK MSNS	3017	X				2.0					G			*			MAWTS-1			3017	
	AOAAW	COMMAND & CONTROL	3018	X				1.5					G			*			MAWTS-1			3018	
	AOAAW	THREAT PILOT & TACTICS	3019	X				1.5					G			*			VMFT-401			3019	
	SOAAW	SWEEP SIM	3601	X					1.0			(NS)	S	4	X	*	2509		DL-FAI*			3601	
	OAAW	SWEEP	3602	X	X	X					1.3	(NS)	A	4		365	3601	2102,2402~NS , 2507	DL-FAI*			3602	
	SOAAW	CLOSE ESCORT SIM	3603	X	X	X			1.0			(NS)	S*/ A	4	X	180	2509		DL-FAI*			3603	
	OAAW	SCREEN	3604	X	X	X					1.3	(NS)	A	4		365	3603	2102,2402~NS	DL-FAI*			3604	
3000 OAAW SKILL TOTAL							4	6.5	2	2.0	2	2.6											
3000 STK	ASTK	STRIKE	3020	X				2.5					G			*			MAWTS-1			3020	
	ASTK	TACAIR MISSION COMMANDING	3021	X				2.0					G			*			MAWTS-1			3021	
	ASTK	LASER GUIDED WEAPONS	3022	X				2.0					G			*			MAWTS-1			3022	
	ASTK	STANDOFF WEAPONS: SLAM-ER	3023	X				1.5					G			*			TOPGUN			3023	
	SSTK	SECTION AI SIM	3701	X					1.0			(NS)	S	2	X	*	2310,2509	2302,2507	DL-FAI*			3701	
	STK	LOW ALT STK	3702	X							1.3	D	A	2+		*	3701	2102,2304,2306, 2507,2509,3701	DL-FAI*			3702	
	SSTK	DIVISION STK SIM	3703	X	X	X			1.0			(NS)	S*	4	X	180	2310,2507	2302,2507	DL-FAI*			3703	
	STK	DAY MED ALT STK	3704	X	X	X					1.3	D	A	4		365	3703	2102,2306,2310,2507, 2509,~3703	DL-FAI*			3704	
STK	NIGHT MED ALT STK	3705	X	X	X					1.3	NS	A	4		180	3704,8300-8351	2306,2402,3703	DL-FAI*			3705		
3000 AI SKILL TOTAL							4	8.0	2	2.0	3	3.9											

VMFA(AW) FA-18D T&R MATRIX																											
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV				
				B	R		#	TIME	#	TIME	#	TIME															
3000 FAC(A)	AFAC(A)	JCAS, JFAC(A) OVERVIEW	3024	X				1.0					G				*			JFAC(A)			3024				
	AFAC(A)	JOINT C2 STRUCTURES	3025	X				1.0					G				*			JFAC(A)			3025				
	AFAC(A)	FSCMS	3026	X				1.0					G				*			JFAC(A)			3026				
	AFAC(A)	JTAC EQUIPMENT	3027	X				1.0					G				*			JFAC(A)			3027				
	AFAC(A)	INTRO TO AVIATION ORD	3028	X				1.0					G				*			JFAC(A)			3028				
	AFAC(A)	A/C / SENSOR CAPABILITIES	3029	X				1.0					G				*			JFAC(A)			3029				
	AFAC(A)	INTRO TO IDF ASSETS	3030	X				1.0					G				*			JFAC(A)			3030				
	AFAC(A)	CALL FOR FIRE	3031	X				2.0					G				*			JFAC(A)			3031				
	AFAC(A)	FAC(A) PLANNING & PREP	3032	X				1.0					G				*			JFAC(A)			3032				
	AFAC(A)	JOINT TACTICAL AIRSTRIKE REQUEST	3033	X				1.0					G				*			JFAC(A)			3033				
	AFAC(A)	CONTROLLING CAS AS A FAC(A)	3034	X				2.0					G				*			JFAC(A)			3034				
	AFAC(A)	INTRO TO FIXED WING CAS TACTICS	3035	X				1.0					G				*			JFAC(A)			3035				
	AFAC(A)	ATTACK HELO EMPLOYMENT	3036	X				1.0					G				*			JFAC(A)			3036				
	AFAC(A)	NIGHT CONSIDERATIONS	3037	X				1.0					G				*			JFAC(A)			3037				
	AFAC(A)	URBAN FAC(A) CONSIDERATIONS	3038	X				1.0					G				*			JFAC(A)			3038				
	AFAC(A)	SEAD/EW INTEGRATION	3039	X				1.0					G				*			JFAC(A)			3039				
	AFAC(A)	FRATRICIDE PREVENTION	3040	X				1.0					G				*			JFAC(A)			3040				
	AFAC(A)	JPUB 3-09.3, CAS	3041	X				1.0					G				*			MAWTS-1			3041				
	AFAC(A)	JFIRE MTTP	3042	X				1.0					G				*			MAWTS-1			3042				
	AFAC(A)	USMC FA-18 TACSOP CH 5, CAS	3043	X				1.0					G				*			MAWTS-1			3043				
	AFAC(A)	JFAC(A) MOA	3044	X				1.0					G				*			MAWTS-1			3044				
	SFAC(A)	FW (GP) INTRODUCTIONS	3801	X	X	X				1.5			D	S	2+		365	6312(PILOT), 6301-6305(WSO)		FAC(A)I			3801				
	SFAC(A)	FW (PGM) URBAN	3802	X						1.5			D	S	2+		*	3801		FAC(A)I			3802				
	FAC(A)	AIRSPOT	3803	X								1.3	(NS)	A/S	1+		*	2102	2102,2402~NS	FAC(A)I			3803				
FAC(A)	FW (GP) MED THREAT	3804	X								1.3	(NS)	A	1+		*	3802	2102,2402~NS,3106~NS	FAC(A)I			3804					
FAC(A)	FW (PGM/IAMs) LOW THREAT	3805	X	X	X						1.3	NS	A	1+		365	3804	2102,2402	FAC(A)I			3805					
FAC(A)	RW CONTROL	3806	X	X	X						1.3	(NS)	A	1+		365	3802	2102,2402~NS,3106~NS	FAC(A)I			3806					
SFAC(A)	CONTESTED	3807	X						1.5			(NS)	S	2+		*	3806		FAC(A)I			3807					
SFAC(A)	MULTI-ELEMENT INTEGRATION	3808	X	X	X				1.5			NS	S	2+		365	3807		FAC(A)I			3808					
FAC(A)	CONTESTED	3809	X	X	X						1.3	(NS)	A	1+		365	3808	2102,2402~NS,3106~NS	FAC(A)I			3809					
3000 FAC(A) SKILL TOTAL							17	19.0	4	6.0	5	6.8															
3000 TAC(A)	ATAC(A)	GENERAL EMPLOYMENT OF TAC(A)	3046	X				1.5				*	G	*		*			MAWTS-1			3046					
	TAC(A)	MULTI-AGENCY TAC(A) QUAL	3901	X	X	X					1.3	(NS)	A	1+		1095	3809	2102	TAC(A)I			3901					
3000 TAC(A) SKILL TOTAL							1	1.5			1	1.3															
3000 PHASE TOTAL							41	56.5	18	19.5	23	29.9															

VMFA(AW) FA-18D T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
4000 SEA	SFCLP/CQ	CASE I AND III SIM	4101	X	X				1.0			(N)	S	1+		365	2102	2101	LSO			4101	
	FCLP/CQ	DAY FCLP	4102	X	X					1.0		D	A	1+		365	2102,4101	2102	LSO			4102	
	FCLP/CQ	NIGHT FCLP	4103	X	X	X				1.0		N	A	1+		365	2102,4102	2102,2402,4102	LSO			4103	
	FCLP/CQ	DAY FCLP/CQ	4104	X	X					1.0		D	A	1+		365	2102,4102	2102,4101,4102	LSO			4104	
	FCLP/CQ	NIGHT FCLP/CQ	4105	X	X	X				1.0		N	A	1+		365	2102,4103,4104	2102,2402,4101,4102,4103,4104	LSO			4105	
4000 FCLP/CQ SKILL TOTAL																							
4000 MIR	AMIR	ATARS EMPLOYMENT	4001	X				1.0					G			*			MAWTS-1			4001	
	MIR	INTRO MIR	4201	X	X	X				1.3		(NS)	A	1+		365	3201	2102	SL			4201	
	MIR	INTRO EO, IR, SAR MIR	4202	X	X	X				1.3		(NS)	A	1+		365	2102	2102,4201	SL			4202	
4000 MIR SKILL TOTAL																							
4000 AESC	AAESC	CONVOY ESCORT	4002	X				1.0					G						MAWTS-1			4002	
	AAESC	ASSAULT SUPPORT ESCORT	4003	X				1.0					G						MAWTS-1			4003	
	AAESC	SUPPORTED UNIT CAPABILITIES	4004	X				1.0					G						MAWTS-1			4004	
	AAESC	ROTARY WING THREAT	4005	X				1.0					G						MAWTS-1			4005	
	SAESC	CONVOY ESCORT SIM	4301	X	X	X				1.0		(NS)	S	2	X	540	3203		FAI*			4301	
	AESC	ASSAULT SPT ESCORT	4302	X	X	X					1.3	(NS)	A	2		540	3203	2102,2402~NS ,3603	FAI*			4302	
	AESC	FAC(A) ESCORT	4303	X							1.3	(NS)	A	1		*	2102	2102,2402~NS	FAI*			4303	
AESC	HELO/PROP ATTACKS	4304	X	X	X					1.3	(NS)	A	1+		365	2508	2102,2402~NS	FAI*			4304		
4000 AESC SKILL TOTAL																							
4000 AMT	SAMT	MINE LAYING OPS SIM	4401	X					1.0			(NS)	S	1+		*			FAI*			4401	
	SAMT	SLAM-ER/HARPOON SIM	4402	X	X	X				1.0		(NS)	S*/A	2	X	365			FAI*			4402	
	AMT	(SSC)	4403	X	X	X					1.3	(NS)	A	2		365	3203	2102,3202,2402~NS ,3203~NS	FAI*			4403	
	AMT	(WASEX)	4404	X	X	X					1.3	(NS)	A	2		365	3704,3705~NS	2102,3704,2402~NS,3705~NS, 4403	FAI*			4404	
4000 AMT SKILL TOTAL																							
4000 FI	AFI	FIGHTER INTEGRATION	4006	X				1.0					G						MAWTS-1			4006	
	SFI	DIVISION FI SIM	4501	X	X				1.0			(NS)	S*	4		365	3405		DL-FAI*			4501	
	FI	DIVISION FI	4502	X	X	X					1.3	(NS)	A	4		365	3405	3404, 3405~NS, 4501	DL-FAI*			4502	
4000 FI SKILL TOTAL																							
4000 NSLAT	ANSLAT	NIGHT LAT CONSID	4007	X						1.0			G						MAWTS-1			4007	
	SNSLAT	TARGET ATTACKS	4701	X					1.0			NS	S	1+		*	2306,2405,2603	2601	NSLATI			4701	
	NSLAT	SINGLE SHIP 2D LAT	4702	X							1.3	NS	A	2		*	2402,2602,4701	2102,2402,2603	NSLATI			4702	
	NSLAT	SECTION 2D LAT	4703	X	X	X					1.3	NS	A	2		365	4702	2102,2402,2603	NSLATI			4703	
4000 NSLAT SKILL TOTAL																							

VMFA(AW) FA-18D T&R MATRIX																									
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV		
				B	R		#	TIME	#	TIME	#	TIME													
4000 FAC(A)	FAC(A)	ADVERSE WX / ELEVATED THREAT	4810	X							1.3		D	A	1		*	6207	2102,2402(NS),3809	FAC(A)I			4810		
	FAC(A)	UAS/UCAV INTEGRATION	4811	X							1.3		(NS)	A	1		*	6207	2102,2402~NS	FAC(A)I			4811		
	FAC(A)	NSFS AIRSPOT	4812	X							1.3		(NS)	A/S	1		*	6207	2102,2402~NS	FAC(A)I			4812		
	FAC(A)	AC-130/HARVEST HAWK INTEGRATION	4813	X							1.3		(NS)	A/S	1		*	6207	2102,2402~NS	FAC(A)I			4813		
4000 FAC(A) SKILL TOTAL											4	5.2													
4000 EXP	SEXP	DAY EAF	4901	X						1.0			D	S	1		*	2102		FAI			4901		
	SEXP	NIGHT EAF	4902	X	X	X				1.0			N	S	1		365	4901		FAI			4902		
4000 EXP SKILL TOTAL											4	5.2													
5000 LATI	SLATI	IAW MAWTS-1 LATI PROGRAM GUIDE	5101	X						1.0			D	S	2	X	*	2603	2302,2601	LATI			5101		
	LATI		5102	X								1.3		D	A	2		*	5101	2102,2603,2304,2306	LATI			5102	
	LATI		5103	X								1.3		D	A	2		*	5102	2102,2603,2304,2306	LATI			5103	
	LATI		5104	X	X							1.3		D	A	2		540	5103	2102,2603,2304,2306	LATI STAN			5104	
	SLATI STAN EVALUATOR		5105	X	X						1.0			D	S	2	X	540	5104	2102,2601	MAWTS-1			5105	
5000 LATI SKILL TOTAL										2	2.0	3	3.9												
5000 NSLATI	SNSLATI	IAW MAWTS-1 NSLATI PROGRAM GUIDE	5201	X						1.0			NS	S	2	X	*	4703,5104	2302,2601,4701	NSLATI			5201		
	NSLATI		5202	X								1.3		NS	A	2		*	5201	2102,2304,2306,2402,2603,4703	NSLATI			5202	
	SNSLATI		5203	X							1.0			NS	S	2		*	5202	2302,2601,4701	NSLATI STAN			5203	
	NSLATI		5204	X	X							1.3		NS	A	2		540	5203	2102,2304,2306,2402,2603,4703	NSLATI STAN			5204	
5000 NSLATI SKILL TOTAL										2	2.0	2	2.6												
5000 FAC(A)I	SFAC(A)I	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	5301	X	X					1.5			(NS)	S	2	X	540	3809	3801, 3808~NS	MAWTS-1			5301		
	FAC(A)I		5302	X								1.3		(NS)	A	2		*	3809	2102,2402~NS,3102,3202,3203~NS,3802,3804,3808~NS,3809	MAWTS-1			5302	
	FAC(A)I		5303	X								1.3		NS	A	2		*	3809	2102,2402,3102,3202,3203,3802,3804,3808,3809	MAWTS-1			5303	
5000 FAC(A)I SKILL TOTAL										1	1.5	2	2.6												
5000 FAI	SFAI	IWA MAWTS-1 FAI PROGRAM GUIDE	5401	X						1.0			D	S	2	X	*	6312	3102	FLSE/WTI			5401		
	FAI		5402	X									1.2		D	A	2		*	6312	2102, 2501	MDTI/ SFTI/WTI			5402
	FAI		5403	X									1.2		D	A	2		*	6312	2102, 2502	MDTI/ SFTI/WTI			5403
	FAI		5404	X									1.2		D	A	2		*	6312	2102,2503	MDTI/ SFTI/WTI			5404
	FAI		5405	X									1.2		D	A	2		*	6312	2102,2508	MDTI/ SFTI/WTI			5405
	SFAI		5406	X	X						1.3			D	S	2	X	540	5401	3102	MAWTS-1			5406	
	LFAI		5407	X	X				1.3					D	G			540	6312		MAWTS-1			5407	
	LFAI		5408	X	X				1.3					D	G			540	6312		MAWTS-1			5408	
	LFAI		5409	X					1.3					D	G			*	6312		MAWTS-1			5409	
	FAI		5410	X									1.0		D	A	2		*	5402-3,5407-8	2102,2501,2502	MAWTS-1			5410
	FAI		5411	X									1.0		D	A	2		*	5404, 5409, 5410	2102,2503	MAWTS-1			5411

VMFA(AW) FA-18D T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
	LFAI		5412	X				1.3				D	G			*			MAWTS-1			5412	
	FAI		5413	X							1.3	D	A	2		*	5405, 5412	2504, 2507, 2508	MAWTS-1			5413	
	FAI		5414	X	X						1.3	D	A	2		540	5405, 5412, 5413	2504, 2507, 2508	MAWTS-1			5414	
5000 FAI SKILL TOTAL							4	5.2	2	2.3	8	9.4											
5000 TAC(AI)	TAC(AI)	IWA MAWTS-1 TAC(AI) PROGRAM GUIDE	5501	X	X						1.3	(NS)	A	1+		540	6208	3901	MAWTS-1			5501	
5000 TAC(AI) SKILL TOTAL										1	1.3												
5000 FLSE	SFLSE	FLSE DEMO SIM	5601	X	X					1.5		*	S	*		540			FLSE			5601	
5000 LFLSE SKILL TOTAL									1	1.5													
5000 NSI	SNSI	IAW MAWTS-1 NSI PROGRAM GUIDE	5701	X						1.0		NS	S	2	X	*	6312	2305	NSI			5701	
	NSI		5702	X							1.3	NS	A	2		*	5701	2102,2402	NSI			5702	
	LNSI		5703	X	X				1.5			*	G	*		540	6312		MAWTS-1			5703	
	SNSI		5704	X							1.0		NS	S	2	X	*	5703	2305	MAWTS-1			5704
	NSI		5705	X	X							1.3	NS	A	2		540	5704	2102,2402	MAWTS-1			5705
5000 NSI SKILL TOTAL							1	1.5	2	2.0	2	2.6											
6000 RQD	RQD	SEC LEADER PROF FLT	6103	X	X	X						(NS)	A	2		540		2102,2402~NS ,6312~NS				6103	
	RQD	DIV LEADER PROF FLT	6104	X	X	X						(NS)	A	4		540		2102,2402~NS, 6407~NS				6104	
	RQD	MSN CMDR PROF FLT	6105	X	X	X						(NS)	A	6+		540		2102,2402~NS				6105	
	RQD	A/A JHMCS INTRO	6106	X	X						1.3	D	A	1+		*	2506	2102				6106	
	RQD	A/G JHMCS INTRO	6107	X	X						1.3	D	A	1+		*	2309	2102				6107	
	RQD	NVCD INTRO	6108	X	X						1.3	NS	A	1+		*	2309,2405	2402				6108	
	RQD	STAT TANKER	6109	X	X	X						(NS)	A	1+		545	2201	2102,2201,2202~NS ,2402~NS				6109	
	SRQD	FCF SIM	6110	X	X	X					1.0		*	S	1		1095	2101				6110	
	RQD	STRAT TANKER (KC-135)	6111	X	X	X						(NS)	A	1+		545	2201	2102,2201,2202~NS,2402~NS ,6109				6111	
	RQD	ROLL-AND-GO PROF	6112	X	X	X						0.1	(NS)		1		90						
	RQD	NIGHT LFE	6148	X	X	X						1.3	NS	A	6+		365	2000 PHASE COMPLETE	2102,2402,6147	MC			4602
6000 RQD SKILL TOTAL									1	1.0	4	4.0											
6000 QUAL	QUAL	DAY CQ	6201	X	X							D	A	1+		*	4104	2102				6201	
	QUAL	NIGHT CQ	6202	X	X							N	A	1+		*	4105	2102				6202	
	QUAL	LAT QUAL	6203	X	X							D	A	2		*	2603	2102				6203	
	QUAL	NSLAT QUAL	6204	X	X							NS	A	2		*	4703	2102,2402				6204	
	QUAL	LSO QUAL	6205	X	X	X						*	G	*		1095	6201,6202,LSO REQ TRNG					6205	
	QUAL	FCF QUAL	6206	X	X						1.3	D	A	1+		*	6110	2102				6206	
	QUAL	FAC(A) QUAL	6207	X	X							(NS)	A	2		*	3809	2102,2402~NS				6207	
	QUAL	TAC(A)	6208	X	X							(NS)	A	2		*	3901						6208
	QUAL	NS QUAL	6209	X	X							NS	A	2		*	2405	2102,2402~NS					6209
QUAL	ACM QUAL	6210	X	X							(NS)	A	2		*	2509	2102					6210	
6000 QUAL SKILL TOTAL										1	1.3												

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SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
6000 SL	SL	RAKED RANGE	6301	X							1.3	D	A	2		*	2000,3000 PHASE CMLPTE	2102,2303,6701,6735	DL			6301	
	SSL	SCAR/AR SIM	6302	X					1.5			D	S	2		*	6301	3201,3301	DL			6302	
	SL	ARMED RECON	6303	X							1.3	D	A	2		*	6302	2102,2309,3202,6735	DL			6303	
	SSL	CAS (GP/PGM)	6304	X					1.5			NS	S	2		*	6302	2102,2402,3101,3102	DL			6304	
	SL FLSE	CAS (GP/PGM)	6305	X							1.3	(NS)	A	2		*	6304	2102,2402~NS,3103,3106~NS,6735	FLSE			6305	
	SL	BFM	6306	X							1.3	D	A	2		*	6301	2102,2503,	DL			6306	
	SL	SEM	6307	X							1.3	D	A	2		*	6306	2102,2508	DL			6307	
	SL	2V2 BVR / ADVERSARY	6308	X							1.3	(NS)	A	2		*	6301	2102,	DL			6308	
	SL FLSE	2V2 BVR	6309	X							1.3	NS	A	2		*	6308	2402	FLSE			6309	
	SSL	DCA	6310	X					1.5			(NS)	S	2		*	6309	3401	DL			6310	
	SSL FLSE	AI	6311	X					1.5			NS	S	2		*	6310	2305,	FLSE			6311	
SL	AI	6312	X	X						1.3	NS	A	2		540	6301-6311, 6131-6140,8630,8660	2102,2306,2402,2507	CO			6312		
6000 SL SKILL TOTAL									4	6.0	8	10.4											
6000 DL	DL	RAKED RANGE	6401	X						1.3	D	A	4		*	6312	2102,2303,6701,6735	MDTI SFTI*				6401	
	SDL	OCA SCREEN	6402	X				1.5			(NS)	S	4		*	6401	2507	MDTI SFTI*				6402	
	SDL	DCA	6403	X				1.5			(NS)	S	4		*	6302	3403	MDTI SFTI*				6403	
	DL	DCA	6404	X						1.3	NS	A	4		*	6403	2102,2402(NS),3403,3404	MDTI SFTI*				6404	
	SDL	LOW ALT AI	6405	X				1.5			(NS)	S	4		*	6403	2601,3701	MDTI SFTI*				6405	
	DL FLSE	MED ALT AI	6406	X						1.3	(NS)	A	4		*	6405	2102,2402~NS,3703~NS,3704	MDTI SFTI*				6406	
	DL CHECK	MED ALT AI	6407	X	X					1.3	NS	A	4		540	6141-6146, 6406,8640,8641	2102,2402,3703,3704,3705	CO*				6407	
6000 DL SKILL TOTAL									3	4.5	4	5.2											
6000 MC	MC	LFE DCA	6501	X						1.3	(NS)	A	8+		*	6407	2102,2402~NS,3403,3404~NS,4601,4602 ~NS	WTI*				6501	
	MC	LFE DAY AI	6502	X						1.3	D	A	6+		*	6407	2102, ,3704,4601	WTI*				6502	
	MC CHECK	LFE NIGHT AI	6503	X						1.3	NS	A	6+		*	6501,6502,8620	2102,2402,3703,3704,3705,4602	CO*				6503	
6000 MC SKILL TOTAL											3	3.9											
6000 INSTR	INSTR	WTI	6601	X											*								6601
	INSTR	MDTI	6602	X											*								6602
	INSTR	SFTI	6603	X											*								6603

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SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
RQD	SL OVERHEAD BREAK TRACKING	6131									0.1	D	A	2		*							
RQD	SL PRECISION APP TRACKING	6132									0.1	(N)	A	2		*							
RQD	SL SIM NORDO APP TRACKING	6133									0.1	(N)	A	2		*							
RQD	SL SIM HUNG ORD APP TRACKING	6134									0.1	(N)	A	2		*							
RQD	SL STRAIGHT IN APP TRACKING	6135									0.1	D	A	2		*							
RQD	SL OVERHEAD BREAK (NIGHT) TRACKING	6136									0.1	N	A	2		*							
RQD	SL STRAIGHT IN APP (NIGHT) TRACKING	6137									0.1	N	A	2		*							
RQD	SL SECTION LANDING TRACKING	6138									0.1	D	A	2		*							
RQD	SL INTERVAL TAKEOFF TRACKING	6139									0.1	(N)	A	2		*							
RQD	SL SECTION TAKEOFF TRACKING	6140									0.1	D	A	2		*							
RQD	DL RADAR TRAIL DEP TRACKING	6141									0.1	(N)	A	3+		*							
RQD	DL OVERHEAD BREAK TRACKING	6142									0.1	D	A	3+		*							
RQD	DL SIM NORDO APP TRACKING	6143									0.1	(N)	A	3+		*							
RQD	DL STRAIGHT IN APP TRACKING	6144									0.1	D	A	3+		*							
RQD	DL OVERHEAD BREAK (NIGHT) TRACKING	6145									0.1	N	A	3+		*							
RQD	DL STRAIGHT IN APP (NIGHT) TRACKING	6146									0.1	N	A	3+		*							
6100 TRACKING							0	0.0	0	0.0	16	1.6											
6000 SWD	SSWD	M61A1 20MM GUN	6701	X	X	X						(NS)	A	1		180							6701
	SSWD	MK-76	6702	X	X	X						(NS)	A	1		90							6702
	SSWD	BDU-45/MK-83/84 INERT	6703	X	X	X						(NS)	A	1		180			6702				6703
	SSWD	MK-82/83/84 HE	6704	X	X	X						(NS)	A	1		180			6702,6703				6704
	SSWD	LGTR	6705	X	X	X						(NS)	A	1		90							6705
	SSWD	GBU-10/12/16/24 INERT	6706	X	X	X						(NS)	A	1		180			6705				6706
	SSWD	GBU-10/12/16/24 HE	6707	X	X	X						(NS)	A	1		365			6705,6706				6707
	SSWD	CAPTIVE GBU-31/32/38/54	6708	X	X	X						(NS)	A	1		180							6708
	SSWD	GBU-31/32/38/54 INERT	6709	X	X	X						(NS)	A	1		180			6708				6709
	SSWD	GBU-31/32/38/54 HE	6710	X	X	X						(NS)	A	1		365			6708,6709				6710
	SSWD	CATM AGM-65E/E2	6711	X	X	X						(NS)	A	1		180							6711
	SSWD	AGM-65E/E2 HE	6712	X	X	X						(NS)	A	1		1095			6711				6712
	SSWD	ROCKETS	6713	X	X	X						(NS)	A	1		365							6713
	SSWD	APKWS	6714	X	X	X						(NS)	A	1		365							6714

VMFA(AW) FA-18D T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		CON D	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
	SSWD	ILLUM	6715	X	X	X						NS	A	1		365						6715	
	SSWD	CBU-99	6716	X	X	X						(NS)	A	1		365						6716	
	SSWD	MK-77	6717	X	X	X						(NS)	A	1		545						6717	
	SSWD	CAPTIVE AGM-154	6718	X	X	X						(NS)	A	1		545						6718	
	SSWD	AGM-154	6719	X	X	X						(NS)	A	1		1095		6718				6719	
	SSWD	CAPTIVE AGM-88/88E	6720	X	X	X						(NS)	A	1		180						6720	
	SSWD	AGM-88/88E HE/INERT	6721	X	X	X						(NS)	A	1		1095		6720				6721	
	SSWD	CAPTIVE AGM-84	6722	X	X	X						(NS)	A	1		545						6722	
	SSWD	AGM-84 HE/INERT	6723	X	X	X						(NS)	A	1		1095		6722				6723	
	SSWD	TALD/ITALD	6724	X	X	X						(NS)	A	1		1095						6724	
6000 ASWD	ASWD	A/A GUNNERY (CIRCULAR)	6725	X	X	X						(NS)	A	1		730	2509					6725	
	ASWD	A/A GUNNERY (FWD QTR)	6726	X	X	X						(NS)	A	1		730	6725	6725				6726	
	ASWD	AIM-9	6727	X	X	X						(NS)	A	1		1095						6727	
	ASWD	AIM-7	6728	X	X	X						(NS)	A	1		1095						6728	
	ASWD	AIM-120	6729	X	X	X						(NS)	A	1		1095						6729	
	ASWD	BANNER TOW	6730	X	X	X						(NS)	A	1		1095						6730	
	ASWD	CAPTIVE AIM-9	6731	X	X	X						(NS)	A	1		90						6731	
	ASWD	CAPTIVE AIM-120	6732	X	X	X						(NS)	A	1		90						6732	
	ASWD	M61A1 20MM (NIGHT)	6733	X	X	X						NS	A	1		15	6701	6701				6733	
	ASWD	A/A BRIEFING LAB	6734	X	X							*	G	*		*						6734	
	ASWD	DIVE DELIVERY	6735	X	X	X						(NS)	A	1		15						6735	
	EXP	EXP OPERATIONS	6736	X								(N)	A	1		*	2102, 4901, 4902~N					3800	

VMFA(AW) FA-18D T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R	MAINTAIN	#	TIME	#	TIME	#	TIME											
6000 NTPS /INST	NTPS	NATOPS OPEN BOOK EXAM	6801	X	X	X		1.5				*	G	*		365				X	X	6801	
	NTPS	NATOPS CLOSED BOOK EXAM	6802	X	X	X		1.0				*	G	*		365	6801			X	X	6802	
	NTPS	NATOPS ORAL EXAM	6803	X	X	X		0.5				*	G	*		365	6801,6802			X	X	6803	
	SNTPS	NATOPS EVALUATION	6101	X	X	X				1.0		(N)	S/A	1+		365	6801,6802,6803	2101,2102~ A	NATOPS I/E	X	X	6101	
	INST	IGS EXAM	6804	X	X	X		1.0				*	G	*		365				X	X	6804	
	INST	INSTRUMENT GND SCHOOL	6805	X	X	X		4.0				*	G	*		365				X	X	6805	
	SINST	INSTRUMENT EVALUATION	6102	X	X	X				1.0		(N)	S/A	1+		365	6804,6805	2102~A	NATOPS Instrument	X	X	6102	
6000 NTPS/INST SKILL TOTAL							5	8.0	2	2.0													
7000 MET	MET	CLOSE AIR SUPPORT	7001								1.3	(NS)	A	2+		730			FLSE	X	X	7002	
	MET	STRIKE COORDINATION AND RECONNAISSANCE	7002								1.3	(NS)	A	2+		730			FLSE	X	X	7004	
	MET	ACTIVE AIR DEFENSE	7003								1.3	(NS)	A	2+		730			FLSE	X	X	7005	
	MET	SUPPRESSION OF ENEMY AIR DEFENSES	7004								1.3	(NS)	A	2+		730			FLSE	X	X	7006	
	MET	ANTI-AIR WARFARE	7005								1.3	(NS)	A	4+		730			FLSE	X	X	7007	
	MET	STRIKE	7006								1.3	(NS)	A	2+		730			FLSE	X	X	7008	
	MET	FORWARD AIR CONTROL (AIRBORNE)	7007								1.3	(NS)	A	4+		730			FLSE	X	X	7009	
	MET	TACTICAL COORDINATION (AIRBORNE)	7008								1.3	(NS)	A	2+		730			FLSE	X	X	7010	
	MET	AVIATION OPERATIONS FROM EXPEDITIONARY SHORE-BASED SITES	7009								1.3	(NS)	A	2+		730			FLSE	X	X		
	MET	AVIATION OPERATIONS FROM EXPEDITIONARY SEA-BASED SITES	7010								1.3	(NS)	A	2+		730			FLSE	X	X		
	MET	MULTI-SENSOR IMAGERY RECONNAISSANCE	7011								1.3	(NS)	A	2+		730			FLSE	X	X		
	MET	AERIAL ESCORT	7012								1.3	(NS)	A	2+		730			FLSE	X	X		
	MET	ATTACK ENEMY MARITIME TARGETS	7013								1.3	(NS)	A	2+		730			FLSE	X	X		
7000 MET SKILL TOTAL							0	0.0	0	0.0	13	16.9											
8000 ACPM	ACPM	MACCS AGENCIES, FUNC	8200	X				0.5					G			*			MAWTS-1			8200	
	ACPM	MWCS BRIEF	8201	X				0.5					G			*			MAWTS-1			8201	
	ACPM	ACA AND AIRSPACE	8202	X				0.8					G			*			MAWTS-1			8202	
	ACPM	AVIATION GROUND SUPP	8210	X				0.7					G			*			MAWTS-1			8210	
	ACPM	ACE BATTLESTAFF	8230	X				1.0					G			*			MAWTS-1			8230	
	ACPM	BATTLE COMMAND DISPL	8231	X				1.0					G			*			MAWTS-1			8231	
	ACPM	SIX FUNCTIONS OF MAR	8240	X				1.7					G			*			MAWTS-1			8240	
	ACPM	JTAR/ASR INTRO AND P	8241	X				1.3					G			*			MAWTS-1			8241	
	ACPM	SITE COMMAND PRIMER	8242	X				1.0					G			*			MAWTS-1			8242	
	ACPM	THEATER AIR GROUND S	8250	X				0.9					G			*			MAWTS-1			8250	
	ACPM	AIR DEFENSE	8300	X				0.9					G			*			MAWTS-1			8300	
	ACPM	FARP OPERATIONS	8310	X				0.8					G			*			MAWTS-1			8310	

VMFA(AW) FA-18D T&R MATRIX

SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	CHAINING	INST	EVAL	EOM	EVENT CONV
				B	R		#	TIME	#	TIME	#	TIME											
	ACPM	USMC TAC FUEL SYSTEMS	8311	X			0.9						G				*			MAWTS-1			8311
	ACPM	JOINT STRCTR/AIR OPS	8320	X			1.0						G				*			MAWTS-1			8320
	ACPM	JOINT AIR TASKING 1	8321	X			0.4						G				*			MAWTS-1			8321
	ACPM	JOINT AIR TASKING 2	8322	X			0.4						G				*			MAWTS-1			8322
	ACPM	JOINT AIR TASKING 3	8323	X			0.4						G				*			MAWTS-1			8323
	ACPM	JOINT AIR TASKING 4	8324	X			0.4						G				*			MAWTS-1			8324
	ACPM	JOINT AIR TASKING 5	8325	X			0.4						G				*			MAWTS-1			8325
	ACPM	JOINT AIR TASKING 6	8326	X			0.4						G				*			MAWTS-1			8326
	ACPM	INTGTNG FIRES/AIRSPACE	8340	X			0.5						G				*			MAWTS-1			8340
	ACPM	PHASING CTRL ASHORE	8350	X			0.9						G				*			MAWTS-1			8350
	ACPM	TACRON ORG/FUNCTIONS	8351	X			1.0						G				*			MAWTS-1			8351
	ACPM	ESG/CSG INTEGRATION	8620	X			1.0						G				*			MAWTS-1			8620
	ACPM	TACC	8630	X			1.0						G				*			MAWTS-1			8630
	ACPM	JOINT DATA NETWORK	8640	X			0.9						G				*			MAWTS-1			8640
	ACPM	MAGTF THTR/ISR EMPLMNT	8641	X			1.3						G				*			MAWTS-1			8641
	ACPM	JOINT OPS INTRO	8660	X			0.5						G				*			MAWTS-1			8660
8000 ACPM SKILL TOTAL							28	22.5															

VMFA FA-18A+/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
2000 FAM	SFAM	EP SIM	2101			
	FAM	DAY FAM/1V0/1V1/AWI	2102	CATM-9	AA	
2000 AAR	AAR	DAY AAR	2201		AAR	1 TANKER
	AAR	NIGHT AAR	2202		AAR	1 TANKER
2000 AS	SAS	HIGH, MEDIUM, AND LOW ANGLE DIVE/BUNT ATTACKS	2301			
	SAS	POP ATTACKS	2302			
	AS	DIVE/STRAFE (GP/STRAFE)	2303	12 MK-76, 500 20MM, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	
	AS	LOW ANGLE SGL/SEC POP (GP)	2304	4 BDU-45 or 12 MK-76, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	
	SAS	SACT SIM	2305			
	AS	SACT FLIGHT	2306	40 Chaff, 20 Flare, TCTS Pod (If using TCTS range)	MOA, RSTD, TCTS, EW, EXP, COMPLEX	EW/TCTS
	SAS	SIM LMAV, PW II, APKWS	2307			
	SAS	SIM JDAM/LJDAM	2308			
	SAS	SIM BUDDY LASE /BOMB (PW II, LMAV/APKWS)	2309			
	AS	LGB/(IAM TGP	2310	2+ LGTR, Captive or Sim JDAM/LJDAM, 40 Chaff, 20 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT	
AS	BUDDY LASE /BOMB (LMAV/APKWS)	2311	CATM-65E, 7 APKWS (if available), 20 Chaff, 40 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT		
2000 NS	NS	SIM NVD	2401			
	NS	FAM/FORM/AWI	2402	CATM-9	AA	
	NS	SEC DELIVERIES (LGW/IAM)	2403	2+ LGTR, Captive or Sim JDAM, 40 Chaff, 20 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT, EXP	
	NS	2V2 INTERCEPTS	2404	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	2 ADV, AIC
NS	MED ANGLE DIVE/POP/STRAFE (GP/GUN)	2405	12 MK-76, 250 RDS 20MM, 20 Chaff, 40 Flare	RSTD, RKD RNG, WISS, EXP		
2000 AA	AA	1V1 OFFENSIVE BFM	2501	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 DEFENSIVE BFM	2502	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 NEUTRAL BFM (HA/ROLLER)	2503	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 DISSIMILAR BFM	2504	CATM-9, 20 Chaff, 40 Flare	AA, EXP	1 DISS ADV
	SAA	SIM SINGLE SHIP INTERCEPTS	2505			
	SAA	SIM SECTION INTERCEPTS	2506			
	SAA	SIM L&L / L&D	2507			AIC
	AA	2V1 OR 2V2 SEM/TAP-THE-CAP (DISSIMILAR)	2508	CATM-9, 20 Chaff, 40 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	2 (DISS) ADV
AA	2V2 BVR (L&D)	2509	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV	
2000 LAT	SLAT	SIM LAT	2601			
	LAT	SGL SHIP LAT (2/3D TRXN, TGT ATTACK)	2602	CATM-9, 40 Chaff, 20 Flare	LAT	

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	LAT	SEC LAT (TRXN, TGT ATTACK)	2603	CATM-9, 2 INRT MK-83 HD(BSU-85), 20 Chaff, 40 Flare	LAT, RKD RNG, TGT, EXP	
3000 CAS	SCAS	SIM GP CAS	3101			JTAC OR FAC(A)
	SCAS	SIM PGM CAS	3102			JTAC OR FAC(A)
	CAS	DAY GP CAS	3103	4 MK-82/83, 250 RDS 20mm, 20 Chaff, 40 Flare	RSTD, TGT, SST, CAS, TGT-MOVE, TGT-DISP, EXP	JTAC OR FAC(A)
	CAS	DAY PGM CAS	3104	2 GBU-32/38, 2 GBU-12/16, 250 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, TGT-MOVE, TGT-DISP, JDAM, EXP	JTAC OR FAC(A)
	CAS	URBAN CAS	3105	2 GBU-32/38 inert, 2 GBU-12/16 inert, 250 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, URBN WPNS, TGT-DISP, TGT-MOVE, EXP, JDAM	JTAC OR FAC(A)
	CAS	NIGHT CAS	3106	1 GBU-32/38, 1 GBU 12/16, 1 MK-82/83, 250 RDS 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, TGT-DISP, TGT-MOVE, JDAM, EXP	JTAC OR FAC(A)
3000 SCAR	SAR	AR (GP/PGM) SIM	3201			
	AR	DAY AR	3202	2 MK-82/83, 2 GBU-12/16 OR 2 GBU-38/32, 250 RDS 20mm, 40 Chaff, 20 Flare	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP	
	AR	NIGHT AR	3203	1 LMAV (live or captive) or 7 APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP	
3000 SCAR	SSCAR	SCAR SIM	3301			1 SEC AR ASSET
	SCAR	SCAR	3302	1 LMAV (live or captive) or 7 APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR	1 SEC AR ASSET
3000 AAD	SAAD	SEC DAY DCA (AREA DEFENSE) SIM	3401			AIC
	AAD	SEC DAY DCA	3402	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS	AIC, 2+ (DISS) ADV, RTO
	SAAD	DIV DAY DCA SIM	3403			AIC
	SAAD	DIV NIGHT DCA W/ EA SIM	3404			AIC
	AAD	DIV NIGHT DCA W/ EA	3405	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS	AIC, 2+ (DISS) ADV, RTO
3000 SEAD	SSEAD	SLAM-ER/JSOW SIM	3501			
	SSEAD	HARM / AARGM SIM (PP/TOO)	3502			
	SEAD	SEAD (HARM/AARGM)	3503	1 CATM-88/AGM-88, 1 CATM-88E/AGM-88E, 40 Chaff, 20 Flare	MOA, TCTS, HI-FI/MANNED LOW-FI EW	
3000 OAAW	SOAAW	SWEEP SIM	3601			AIC
	OAAW	SWEEP	3602	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV, RTO
	SOAAW	CLOSE ESCORT SIM	3603			AIC
	OAAW	SCREEN	3604	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV, RTO

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
3000 STK	SSTK	SECTION STK SIM	3701			AIC
	STK	SECTION LOW ALT STK	3702	4 MK-82/83/84, CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	TGT, AA, EW, SST, TCTS, TGT-DISP, LSR, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO
	SSTK	MED ALT STK SIM	3703			AIC
	STK	DAY MED ALT STK	3704	2 GBU-12/16, CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	RSTD, TGT, AA, EW, TCTS, TGT-DISP, LSR, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO
	STK	NIGHT MED ALT STK	3705	2 GBU-32/38 (HE OR INERT), CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	RSTD, TGT, AA, EW, TCTS, TGT-DISP, LSR, JDAM, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
4000 SEA	SFCLP/CQ	CASE I AND III SIM	4101			LSO
	FCLP/CQ	DAY FCLP	4102		SELF OR AIRFIELD W/FCLP PATTERN, CVN BOX, AND FRESNEL LENS	LSO
	FCLP/CQ	NIGHT FCLP	4103		SELF OR AIRFIELD W/FCLP PATTERN, CVN BOX, AND FRESNEL LENS. FOR CQ, CVN-COMPATIBLE ACLS OR ICLS.	LSO
	FCLP/CQ	DAY FCLP/CQ	4104			LSO
	FCLP/CQ	NIGHT FCLP/CQ	4105			LSO
4000 MIR	MIR	INTRO MIR	4201		MOA AND URBN TRG	
	MIR	INTRO EO, IR, SAR MIR	4202	40 Chaff, 20 Flare	RSTD, TGT, EXP	
4000 AESC	SAESC	CONVOY ESCORT SIM	4301			1 VIC CONVOY, 2 RW ESC
	AESC	ASSAULT SPT ESCORT	4302	CATM-9, 4 BDU-45/MK-83 INERT, 40 Chaff, 20 Flare	RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT	1 RW/ASSAULT ELEMENT
	AESC	FAC(A) ESCORT	4303	1 AGM-65E/E2 (CAPTIVE OR LIVE), 1 GBU 12/16 OR 2 PODS 2.75"/5.00" RKTS, 40 Chaff, 20 Flare	MOA, JCAS, EXP	2+ CAS A/C. IDF, C3
	AESC	HELO/PROP ACM	4304	CATM-9, CATM-120, TCTS Pod, 20 Chaff, 40 Flare	AA, EXP, MACH 1+, TCTS	ONE OR MORE HELICOPTERS/PROP AIRCRAFT.
4000 AMT	SAMT	SIM MINE OPERATIONS	4401			
	SAMT	SIM SLAM-ER	4402			
	AMT	SEA SURFACE CONTROL (SSC)	4403		MOA	CONTROLLING NAVAL SFC PLATFORM
	AMT	WAR AT SEA EXERCISE (WASEX)	4404		MOA	CONTROLLING NAVAL SFC PLATFORM
4000 FI	SFI	FI DCA SIM	4501			
	FI	FI DCA	4502	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS, L-16 NETWORK	AIC, TWO OR MORE 4TH/5TH GEN FIGHTERS, FOUR OR MORE (DISSIMILIAR) ADVERSARIES, RTO.
4000 NSLAT	SNSLAT	TARGET ATTACKS	4701			
	NSLAT	SINGLE SHIP 2D LAT	4702		LAT	
	NSLAT	SECTION 2D LAT	4703	6 MK-76, 40 Chaff, 20 Flare	LAT, EXP, RKD RNG	

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
4000 FAC(A)	SFAC(A)	FW T1 / T2 BOT SIM	4801			
	SFAC(A)	FW T2 / T3	4802			
	FAC(A)	ARTY/AIRSPOT/CASEVAC	4803	40 CHAFF, 20 FLARE	JCAS, SST, EXP	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)	FW T1 GP (CONTESTED / DEGRADED)	4804	TWO PODS 2.75"/5.0" RP ROCKETS OR 12 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, JCAS, SST, EXP	ONE OR TWO FW CAS ELEMENTS WITH LIVE OR INERT GP AND A JFO.
	FAC(A)	FW T2 AND T3	4805	2 GBU-12/16, 250 20MM, 40 CHAFF, 20 FLARE	RSTD, JCAS, SST, EXP	ONE OR TWO FW CAS ELEMENTS WITH LIVE, INERT, OR CAPTIVE PGMS AND A JTAC. LSTS ARE DESIRED
	FAC(A)	RW T2 AND T3 (CONTESTED / DEGRADED)	4806	2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff, 20 Flare	RSTD, JCAS, SST, EXP	ONE OR TWO RW CAS ELEMENTS WITH LIVE/CAPTIVE HELLFIRE AND A JFO.
	SFAC(A)	MULTI-ELEMENT INTEGRATION (CONTESTED / DEGRADED)	4807			
	SFAC(A)	MULTI-ELEMENT INTEGRATION	4808			
	FAC(A)	3 ELEMENT INTEGRATION (FAC(A) QUAL)	4809	2 GBU-12/16 OR 2 PODS 2.75"/5.00" RP RKTs, 40 CHAFF, 20 FLARE	JCAS, EXP	MIN 3 FIRE SPT (FW/RW/UAS/IDF), JTAC. IF IDF, 10HE, 4 WP
	FAC(A)	ADVERSE WX / ELEVATED THREAT	4810	2 pods 2.75"/5.0" RP rockets or 4 Mk-82/83, 20 Chaff, 40 Flare	JCAS, EXP	ONE/TWO FW CAS ELEMENTS, ONE IDF ASSET AND A JTAC. IDF ASSET REQUIRES 10 HE RDS, 4 WP RDS.
	FAC(A)	UAS/UCAV INTEGRATION	4811	20 Chaff, 40 Flare	MOA, JCAS, EXP	UAS/UCAV W/LGW, JTAC OR FO
	FAC(A)	NSFS AIRSPOT	4812	20 Chaff, 40 Flare	MOA, JCAS, EXP	NSFS, JTAC, FO OR NGLO. NSFS REQ 10 HE, 2 WP, 8 ILLUM
	FAC(A)	AC-130/HARVEST HAWK INTEGRATION	4813	20 Chaff, 40 Flare	MOA, JCAS, EXP	1 AC-130/HARVEST HAWK, JTAC
	4000 EXP	SEXP	SIM DAY EAF	4901		
	SEXP	SIM NIGHT EAF	4902			

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
5000 LATI	SLATI	IAW MAWTS-1 LATI PROGRAM GUIDE	5101	IAW MAWTS-1 LATI PROGRAM GUIDE	IAW MAWTS-1 LATI PROGRAM GUIDE	IAW MAWTS-1 LATI PROGRAM GUIDE
	LATI		5102			
	LATI		5103			
	LATI		5104			
	SLATI EVALUATOR		5105			
5000 NSLATI	SNSLATI	IAW MAWTS-1 NSLATI PROGRAM GUIDE	5201	IAW MAWTS-1 NSLATI PROGRAM GUIDE	IAW MAWTS-1 NSLATI PROGRAM GUIDE	IAW MAWTS-1 NSLATI PROGRAM GUIDE
	NSLATI		5202			
	SNSLATI		5203			
	NSLATI		5204			
FAC(A)I	SFAC(A)I	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	5301	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE
	FAC(A)I		5302			
	FAC(A)I		5303			
5000 FAI	SFAI	IWA MAWTS-1 FAI PROGRAM GUIDE	5401	IWA MAWTS-1 FAI PROGRAM GUIDE	IWA MAWTS-1 FAI PROGRAM GUIDE	IWA MAWTS-1 FAI PROGRAM GUIDE
	FAI		5402			
	FAI		5403			
	FAI		5404			
	FAI		5405			
	SFAI		5406			
	LFAI		5407			
	LFAI		5408			
	LFAI		5409			
	FAI		5410			
	FAI		5411			
	LFAI		5412			
	FAI		5413			
	FAI		5414			
5000 TAC(A)I	TAC(A)I	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	5501	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE
5000 NSI	SNSI	IAW MAWTS-1 NSI PROGRAM GUIDE	5701	IAW MAWTS-1 NSI PROGRAM GUIDE	IAW MAWTS-1 NSI PROGRAM GUIDE	IAW MAWTS-1 NSI PROGRAM GUIDE
	NSI		5702			
	LNSI		5703			
	SNSI		5704			
	NSI		5705			
6000 RQD	RQD	STAT TANKER	6109			KC-10 OR SIMMILAR
	RQD	STRAT TANKER (KC-135)	6111			KC-135
	RQD	DAY LFE	6147	AS REQUIRED, TCTS POD	AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP, TCTS	1 TANKER (IF AAR REQ), 4+ ADV, RTO
	RQD	NIGHT LFE	6148	AS REQUIRED, TCTS POD	AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP, TCTS	2 TANKER (IF AAR REQ), 4+ ADV, RTO

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
6000 SL	SL	MED ALT DIVES, POPS, AND STRAFE SIM ARMED RECONNAISSANCE ARMED RECONNAISSANCE SIM CAS (GP)	6301	12 MK-76, 500 20MM, 20 CHAFF, 40 FLARE 2 GBU-38/32, 2 MK-82 OR 6 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, LAT, RKD RNG, LSR, WISS, STRAFE, TGT, LT INERT, EXP RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT) JDAM, EXP	JTAC OR FAC(A)
	SSL		6302			
	SL		6303			
	SSL		6304			
	SL	DAY OR NIGHT CAS	6305	2 GBU-12/16 OR 2 LGTR, 2 MK-82 OR 6 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT), LGB, EXP	JTAC OR FAC(A)
	SL	1 V 1 HIGH ASPECT BFM	6306	CATM-9, 20 CHAFF, 40 FLARE	AA, EXP	AIC
	SL	2V2 VID (L&D) / TAP-THE-CAP	6307	CATM-9, 20 CHAFF, 40 FLARE	AA, MACH 1+, EXP	AIC, 2 DISS ADV
	SL	2 V 2 AWI	6308	CATM-9, CATM-120, 40 CHAFF, 20 FLARE	AA, EXP	AIC, TWO ADVERSARIES
	SL FLSE	2VX NS INTERCEPT	6309	CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	AA, EXP	AIC, TWO ADVERSARIES.
	SSL	2VX NS DCA	6310			
	SSL	SIM MED ALT STK	6311			AIC
SL CHECK	MED ALT STK	6312	2 GBU-12/16 OR 2 LGTR, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), LGB, EXP	TWO OR MORE (DISSIMILAR) ADVERSARIES, AIC, RTO.	
6000 DL	DL	DIVISION RAKED RANGE SORTIE	6401	4 BDU-45 OR 12 MK-76, 500 20 MM, 20 CHAFF, 40 FLARE	LSR, TGT, HE, (LT INERT), (HVY INERT), STRAFE, EXP	
	SDL	4VX OCA SWEEP	6402			AIC
	SDL	4VX DCA	6403			AIC
	DL	4VX DCA	6404	CATM-9, CATM-120, 40 CHAFF, 20 FLARE,	AA, EW, MACH 1+, EXP	AIC, 3+ (DISS) ADV, RTO
	SDL	LOW ALT STK SIM	6405			AIC
	DL FLSE	MED ALT STK	6406	2 GBU-12/16 OR 2 LGTRS AND/OR 2 GBU-32/38, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), JDAM, LGB, EXP	AIC,+ (DISS) ADV, RTO
	DL CHECK	NS MED ALT STK	6407	2 GBU-12/16 OR 2 LGTRS AND/OR 2 GBU-32/38, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), JDAM, LGB, EXP	AIC, 2+ (DISS) ADV, RTO

VMFA FA-18A++/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
6000 MC	MC	LFE DCA	6501	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 4+ (DISS) ADV, RTO, AAR PREFERRED
	MC	LFE DAY STK	6502	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EW, MACH 1+, EXP, TCTS	AIC, 4+ BLUE FTRS, 4+ (DISS) ADV, 2 SEAD A/C, 1 EW A/C, TANKER, RTO
	MC CHECK	LFE NIGHT STK	6503	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, TCTS, TGT, LGB, TGT-DISP	AIC, 4+ BLUE FTRS, 4+ (DISS) ADV, 2 SEAD A/C, 1 EW A/C, TANKER, RTO
6000 SWD	SSWD	M61A1 20MM GUN	6701	AT LEAST 250 RDS 20mm	STRAFE	
	SSWD	MK-76	6702	AT LEAST 1 MK-76	LT INERT	
	SSWD	BDU-45/MK-83/84 INERT	6703	AT LEAST 1 INERT MK-82/83/84	HVY INERT	
	SSWD	MK-82/83/84 HE	6704	AT LEAST MK-82/93/84	HE	
	SSWD	LGTR	6705	AT LEAST 1 LGTR	LT INERT, LSR	
	SSWD	GBU-10/12/16/24 INERT	6706	AT LEAST 1 GBU-10/12/16/24 INERT	HVY INERT, LSR	
	SSWD	GBU-10/12/16/24 HE	6707	AT LEAST 1 GBU 10/12/16/24 OR 1 LGTR	HE/HVY INERT, LSR	
	SSWD	CAPTIVE GBU-31/32/38/54	6708	1 CAPTIVE JDAM		
	SSWD	GBU-31/32/38/54 INERT	6709	1 INERT JDAM	HVY INERT	
	SSWD	GBU-31/32/38/54 HE	6710	1 JDAM	HE	
	SSWD	CATM AGM-65E/E2	6711	AT LEAST CAPTIVE AGM-65E/E2 LMAV	LSR	
	SSWD	AGM-65E/E2 HE	6712	AT LEAST 1 AGM-65E/E2 LMAV	LIVE AS MISSILE RANGE, LSR	
	SSWD	ROCKETS	6713	AT LEAST 4 5.00" OR 7 2.75" RKTS	LIVE OR INERT	
	SSWD	APKWS	6714	AT LEAST APKWS	LIVE OR INERT	
	SSWD	ILLUM	6715	AT LEAST 4 5.00" OR 7 2.75" ILLUM RKTS AND OR 4 LUU-2/19	INERT	
	SSWD	CBU-99	6716	AT LEAST 1 CBU-99	CBU	
	SSWD	MK-77	6717	AT LEAST 1 MK-77	LIVE	
	SSWD	CAPTIVE AGM-154	6718	CAPTIVE JSOW		
	SSWD	AGM-154	6719	JSOW	LIVE	
	SSWD	CAPTIVE AGM-88/88E	6720	1 CAPTIVE AGM-88/88E		
SSWD	AGM-88/88E HE/INERT	6721	AT LEAST 1 AGM-88/88E	LIVE AS MISSILE RANGE, EMMITER,	RSO	
SSWD	CAPTIVE AGM-84	6722	1 SLAM(ER), 1 AAW-13 POD			

VMFA FA-18A+/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	SSWD	AGM-84 HE/INERT	6723	AT LEAST 1 SLAM(ER), 1 AAW-13 POD	LIVE AS MISSILE RANGE	RSO
	SSWD	TALD/ITALD	6724	1 TALD/ITALD	INERT OR LIVE	

VMFA FA-18A+/C RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
6000 ASWD	ASWD	A/A GUNNERY (CIRCULAR)	6725	500 RDS 20mm	LIVE AA GUNNERY RANGE	1 BANNER A/C
	ASWD	A/A GUNNERY (FWD QTR)	6726	500 RDS 20mm	LIVE AA GUNNERY RANGE	1 BANNER A/C
	ASWD	AIM-9	6727	1 AIM-9M/X	MISSILE TEST RANGE	
	ASWD	AIM-7	6728	1 AIM-7	MISSILE TEST RANGE	
	ASWD	AIM-120	6729	1 AIM-120	MISSILE TEST RANGE	
	ASWD	BANNER TOW	6730	1 BANNER		
	ASWD	CAPTIVE AIM-9	6731	1 CATM-9		
	ASWD	CAPTIVE AIM-120	6732	1 CATM-120		
	ASWD	M61A1 20MM (NIGHT)	6733	250 20mm	STRAFE	
	ASWD	A/A BRIEFING LAB	6734			
	ASWD	DIVE DELIVERY	6735	SIMULATED OR ACTUAL DIVE DELIVERY ORDNANCE		
	SSWD	AGM-65E/E2 HE	6712	AT LEAST 1 AGM-65E/E2 LMAV	LIVE AS MISSILE RANGE, LSR	
	SSWD	ROCKETS	6713	AT LEAST 4 5.00" OR 7 2.75" RKTS	LIVE OR INERT	
	SSWD	APKWS	6714	AT LEAST APKWS	LIVE OR INERT	
	SSWD	ILLUM	6715	AT LEAST 4 5.00" OR 7 2.75" ILLUM RKTS AND OR 4 LUU-2/19	INERT	
	SSWD	CBU-99	6716	AT LEAST 1 CBU-99	CBU	
	SSWD	MK-77	6717	AT LEAST 1 MK-77	LIVE	
	SSWD	CAPTIVE AGM-154	6718	CAPTIVE JSOW		
	SSWD	AGM-154	6719	JSOW	LIVE	
	SSWD	CAPTIVE AGM-88/88E	6720	1 CAPTIVE AGM-88/88E		
	SSWD	AGM-88/88E HE/INERT	6721	AT LEAST 1 AGM-88/88E	LIVE AS MISSILE RANGE, EMMITER,	RSO
	SSWD	CAPTIVE AGM-84	6722	1 SLAM(ER), 1 AAW-13 POD		
	SSWD	AGM-84 HE/INERT	6723	AT LEAST 1 SLAM(ER), 1 AAW-13 POD	LIVE AS MISSILE RANGE	RSO
SSWD	TALD/ITALD	6724	1 TALD/ITALD	INERT OR LIVE		

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
2000 FAM	SFAM	EP SIM	2101			
	FAM	DAY FAM/1V0/1V1/AWI	2102	CATM-9	AA	
2000 AAR	AAR	DAY AAR	2201		AAR	1 TANKER
	AAR	NIGHT AAR	2202		AAR	1 TANKER
2000 AS	SAS	HIGH, MEDIUM, AND LOW ANGLE DIVE/BUNT ATTACKS	2301			
	SAS	POP ATTACKS	2302			
	AS	DIVE/STRAFE (GP/STRAFE)	2303	12 MK-76, 500 20MM, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	
	AS	LOW ANGLE SGL/SEC POP (GP)	2304	4 BDU-45 or 12 MK-76, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	
	SAS	SACT SIM	2305			
	AS	SACT FLIGHT	2306	40 Chaff, 20 Flare, TCTS Pod (If using TCTS range)	MOA, RSTD, TCTS, EW, EXP, COMPLEX	EW/TCTS
	SAS	SIM LMAV, PW II, APKWS	2307			
	SAS	SIM JDAM/LJDAM	2308			
	SAS	SIM BUDDY LASE /BOMB (PW II, LMAV/APKWS)	2309			
	AS	LGB/(IAM TGP	2310	2+ LGTR, Captive or Sim JDAM/LJDAM, 40 Chaff, 20 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT	
AS	BUDDY LASE /BOMB (LMAV/APKWS)	2311	CATM-65E, 7 APKWS (if available), 20 Chaff, 40 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT		
2000 NS	NS	SIM NVD	2401			
	NS	FAM/FORM/AWI	2402	CATM-9	AA	
	NS	SEC DELIVERIES (LGW/IAM)	2403	2+ LGTR, Captive or Sim JDAM, 40 Chaff, 20 Flare	RSTD, RKD RNG, TGT, LSR, LT INERT, EXP	
	NS	2V2 INTERCEPTS	2404	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	2 ADV, AIC
	NS	MED ANGLE DIVE/POP/STRAFE (GP/GUN)	2405	12 MK-76, 250 RDS 20MM, 20 Chaff, 40 Flare	RSTD, RKD RNG, WISS, EXP	
2000 AA	AA	1V1 OFFENSIVE BFM	2501	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 DEFENSIVE BFM	2502	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 NEUTRAL BFM (HA/ROLLER)	2503	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	AA	1V1 DISSIMILAR BFM	2504	CATM-9, 20 Chaff, 40 Flare	AA, EXP	1 DISS ADV
	SAA	SIM SINGLE SHIP INTERCEPTS	2505			

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	SAA	SIM SECTION INTERCEPTS	2506			
	SAA	SIM L&L / L&D	2507			AIC
	AA	2V1 OR 2V2 SEM/TAP-THE-CAP (DISSIMILAR)	2508	CATM-9, 20 Chaff, 40 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	2 (DISS) ADV
	AA	2V2 BVR (L&D)	2509	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV
2000 LAT	SLAT	SIM LAT	2601			
	LAT	SGL SHIP LAT (2/3D TRXN, TGT ATTACK)	2602	CATM-9, 40 Chaff, 20 Flare	LAT	
	LAT	SEC LAT (TRXN, TGT ATTACK)	2603	CATM-9, 2 INRT MK-83 HD(BSU-85), 20 Chaff, 40 Flare	LAT, RKD RNG, TGT, EXP	
3000 CAS	SCAS	SIM GP CAS	3101			JTAC OR FAC(A)
	SCAS	SIM PGM CAS	3102			JTAC OR FAC(A)
	CAS	DAY GP CAS	3103	4 MK-82/83, 250 RDS 20mm, 20 Chaff, 40 Flare	RSTD, TGT, SST, CAS, TGT-MOVE, TGT-DISP, EXP	JTAC OR FAC(A)
	CAS	DAY PGM CAS	3104	2 GBU-32/38, 2 GBU-12/16, 250 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, TGT-MOVE, TGT-DISP, JDAM, EXP	JTAC OR FAC(A)
	CAS	URBAN CAS	3105	2 GBU-32/38 inert, 2 GBU-12/16 inert, 250 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, URBN WPNS, TGT-DISP, TGT-MOVE, EXP, JDAM	JTAC OR FAC(A)
	CAS	NIGHT CAS	3106	1 GBU-32/38, 1 GBU 12/16, 1 MK-82/83, 250 RDS 20mm, 40 Chaff, 20 Flare	RSTD, TGT, SST, EW, CAS, TGT-DISP, TGT-MOVE, JDAM, EXP	JTAC OR FAC(A)
3000 SCAR	SAR	AR (GP/PGM) SIM	3201			
	AR	DAY AR	3202	2 MK-82/83, 2 GBU-12/16 OR 2 GBU-38/32, 250 RDS 20mm, 40 Chaff, 20 Flare	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP	
	AR	NIGHT AR	3203	1 LMAV (live or captive) or 7 APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare	RSTD, TGT, HE, SST, EW, LSR, TGT-DISP, TGT-MOVE, EXP	
3000 SCAR	SSCAR	SCAR SIM	3301			1 SEC AR ASSET
	SCAR	SCAR	3302	1 LMAV (live or captive) or 7 APKWS, 2 GBU-38/32/54, 2 GBU-12/16, 500 20mm, 40 Chaff, 20 Flare	RSTD, HE, EW, SST, TGT-DISP, TGT-MOVE, LSR	1 SEC AR ASSET
3000 AAD	SAAD	SEC DAY DCA (AREA DEFENSE) SIM	3401			AIC
	AAD	SEC DAY DCA	3402	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS	AIC, 2+ (DISS) ADV, RTO
	SAAD	DIV DAY DCA SIM	3403			AIC
	SAAD	DIV NIGHT DCA W/ EA SIM	3404			AIC
	AAD	DIV NIGHT DCA W/ EA	3405	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS	AIC, 2+ (DISS) ADV, RTO
3000 SEAD	SSEAD	SLAM-ER/JSOW SIM	3501			
	SSEAD	HARM / AARGM SIM (PP/TOO)	3502			
	SEAD	SEAD (HARM/AARGM)	3503	1 CATM-88/AGM-88, 1 CATM-88E/AGM-88E, 40 Chaff, 20 Flare	MOA, TCTS, HI-FI/MANNED LOW-FI EW	
3000 OAAW	SOAAW	SWEEP SIM	3601			AIC
	OAAW	SWEEP	3602	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV, RTO

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	SOAAW	CLOSE ESCORT SIM	3603			AIC
	OAAW	SCREEN	3604	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 2+ (DISS) ADV, RTO
3000 STK	SSTK	SECTION STK SIM	3701			AIC
	STK	SECTION LOW ALT STK	3702	4 MK-82/83/84, CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	TGT, AA, EW, SST, TCTS, TGT-DISP, LSR, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO
	SSTK	MED ALT STK SIM	3703			AIC
	STK	DAY MED ALT STK	3704	2 GBU-12/16, CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	RSTD, TGT, AA, EW, TCTS, TGT-DISP, LSR, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO
	STK	NIGHT MED ALT STK	3705	2 GBU-32/38 (HE OR INERT), CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	RSTD, TGT, AA, EW, TCTS, TGT-DISP, LSR, JDAM, EXP	AIC, 2+ (DISS) ADV, 1 TANKER (IF AAR REQ), RTO
3000 FAC(A)	SFAC(A)	FW T1 / T2 BOT SIM	3801			
	SFAC(A)	FW T2 / T3	3802			
	FAC(A)	ARTY/AIRSPOT/CASEVAC	3803	40 CHAFF, 20 FLARE	JCAS, SST, EXP	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)	FW T1 GP (CONTESTED / DEGRADED)	3804	TWO PODS 2.75"/5.0" RP ROCKETS OR 12 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, JCAS, SST, EXP	ONE OR TWO FW CAS ELEMENTS WITH LIVE OR INERT GP AND A JFO.
	FAC(A)	FW T2 AND T3	3805	2 GBU-12/16, 250 20MM, 40 CHAFF, 20 FLARE	RSTD, JCAS, SST, EXP	ONE OR TWO FW CAS ELEMENTS WITH LIVE, INERT, OR CAPTIVE PGMS AND A JTAC. LSTS ARE DESIRED
	FAC(A)	RW T2 AND T3 (CONTESTED / DEGRADED)	3806	2 GBU-12/16 or 2 pods 2.75"/5.0" RP rockets, 40 Chaff, 20 Flare	RSTD, JCAS, SST, EXP	ONE OR TWO RW CAS ELEMENTS WITH LIVE/CAPTIVE HELLFIRE AND A JFO.
	SFAC(A)	MULTI-ELEMENT INTEGRATION (CONTESTED / DEGRADED)	3807			
	SFAC(A)	MULTI-ELEMENT INTEGRATION	3808			
	FAC(A)	3 ELEMENT INTEGRATION (FAC(A) QUAL)	3809	2 GBU-12/16 OR 2 PODS 2.75"/5.00" RP RKTs, 40 CHAFF, 20 FLARE	JCAS, EXP	MIN 3 FIRE SPT (FW/RW/UAS/IDF), JTAC. IF IDF, 10HE, 4 WP
3000 TAC(A)	TAC(A)	MULTI-AGENCY TAC(A) QUAL	3901		MOA	JTAC/FAC(A) AND 2+ CAS ELEMENTS

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VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
4000 SEA	SFCLP/CQ	CASE I AND III SIM	4101			LSO
	FCLP/CQ	DAY FCLP	4102		SELF OR AIRFIELD W/FCLP PATTERN, CVN BOX, AND FRESNEL LENS	LSO
	FCLP/CQ	NIGHT FCLP	4103		SELF OR AIRFIELD W/FCLP PATTERN, CVN BOX, AND FRESNEL LENS. FOR CQ, CVN-COMPATIBLE ACLS OR ICLS.	LSO
	FCLP/CQ	DAY FCLP/CQ	4104			LSO
	FCLP/CQ	NIGHT FCLP/CQ	4105			LSO
4000 MIR	MIR	INTRO MIR	4201		MOA AND URBN TRG	
	MIR	INTRO EO, IR, SAR MIR	4202	40 Chaff, 20 Flare	RSTD, TGT, EXP	
4000 AESC	SAESC	CONVOY ESCORT SIM	4301			1 VIC CONVOY. 2 RW ESC
	AESC	ASSAULT SPT ESCORT	4302	CATM-9, 4 BDU-45/MK-83 INERT, 40 Chaff, 20 Flare	RSTD, LSR, TGT-DISP, TGT-MOVE, EXP, TGT	1 RW/ASSAULT ELEMENT
	AESC	FAC(A) ESCORT	4303	1 AGM-65E/E2 (CAPTIVE OR LIVE), 1 GBU 12/16 OR 2 PODS 2.75"/5.00" RKTS, 40 Chaff, 20 Flare	MOA, JCAS, EXP	2+ CAS A/C. IDF, C3
	AESC	HELO/PROP ACM	4304	CATM-9, CATM-120, TCTS Pod, 20 Chaff, 40 Flare	AA, EXP, MACH 1+, TCTS	ONE OR MORE HELICOPTERS/PROP AIRCRAFT.
4000 AMT	SAMT	SIM MINE OPERATIONS	4401			
	SAMT	SIM SLAM-ER	4402			
	AMT	SEA SURFACE CONTROL (SSC)	4403		MOA	CONTROLLING NAVAL SFC PLATFORM
	AMT	WAR AT SEA EXERCISE (WASEX)	4404		MOA	CONTROLLING NAVAL SFC PLATFORM
4000 FI	SFI	FI DCA SIM	4501			
	FI	FI DCA	4502	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, MACH 1+, TCTS, L-16 NETWORK	AIC, TWO OR MORE 4TH/5TH GEN FIGHTERS, FOUR OR MORE (DISSIMILIAR) ADVERSARIES, RTO.
4000 NSLAT	SNSLAT	TARGET ATTACKS	4701			
	NSLAT	SINGLE SHIP 2D LAT	4702		LAT	
	NSLAT	SECTION 2D LAT	4703	6 MK-76, 40 Chaff, 20 Flare	LAT, EXP, RKD RNG	

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
4000 FAC(A)	FAC(A)	ADVERSE WX / ELEVATED THREAT	4810	2 pods 2.75"/5.0" RP rockets or 4 Mk-82/83, 20 Chaff, 40 Flare	JCAS, EXP	ONE/TWO FW CAS ELEMENTS, ONE IDF ASSET AND A JTAC. IDF ASSET REQUIRES 10 HE RDS, 4 WP RDS.
	FAC(A)	UAS/UCAV INTEGRATION	4811	20 Chaff, 40 Flare	MOA, JCAS, EXP	UAS/UCAV W/LGW, JTAC OR FO
	FAC(A)	NSFS AIRSPOT	4812	20 Chaff, 40 Flare	MOA, JCAS, EXP	NSFS, JTAC, FO OR NGLO. NSFS REQ 10 HE, 2 WP, 8 ILLUM
4000 EXP	SEQ	SIM DAY EAF	4901			
	SEQ	SIM NIGHT EAF	4902			
5000 LATI	SLATI	IAW MAWTS-1 LATI PROGRAM GUIDE	5101	IAW MAWTS-1 LATI PROGRAM GUIDE	IAW MAWTS-1 LATI PROGRAM GUIDE	IAW MAWTS-1 LATI PROGRAM GUIDE
	LATI		5102			
	LATI		5103			
	LATI		5104			
	SLATI EVALUATOR		5105			
5000 NSLATI	NSLATI	IAW MAWTS-1 NSLATI PROGRAM GUIDE	5201	IAW MAWTS-1 NSLATI PROGRAM GUIDE	IAW MAWTS-1 NSLATI PROGRAM GUIDE	IAW MAWTS-1 NSLATI PROGRAM GUIDE
	NSLATI		5202			
	NSLATI		5203			
	NSLATI		5204			
FAC(A)I	SFAC(A)I	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	5301	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE	IAW MAWTS-1 FAC(A)I PROGRAM GUIDE
	FAC(A)I		5302			
	FAC(A)I		5303			
5000 FAI	SFAI	IWA MAWTS-1 FAI PROGRAM GUIDE	5401	IWA MAWTS-1 FAI PROGRAM GUIDE	IWA MAWTS-1 FAI PROGRAM GUIDE	IWA MAWTS-1 FAI PROGRAM GUIDE
	FAI		5402			
	FAI		5403			
	FAI		5404			
	FAI		5405			
	SFAI		5406			
	LFAI		5407			
	LFAI		5408			
	LFAI		5409			
	FAI		5410			
	FAI		5411			
	LFAI		5412			
	FAI		5413			
	FAI		5414			
5000 TAC(A)I	TAC(A)I	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	5501	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE	IWA MAWTS-1 TAC(A)I PROGRAM GUIDE
5000 NSI	SNSI	IAW MAWTS-1 NSI PROGRAM GUIDE	5701	IAW MAWTS-1 NSI PROGRAM GUIDE	IAW MAWTS-1 NSI PROGRAM GUIDE	IAW MAWTS-1 NSI PROGRAM GUIDE
	NSI		5702			

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	LNSI		5703			
	SNSI		5704			
	NSI		5705			
6000 RQD	RQD	STAT TANKER	6109			KC-10 OR SIMILAR
	RQD	STRAT TANKER (KC-135)	6111			KC-135
	RQD	DAY LFE	6147	AS REQUIRED, TCTS POD	AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP, TCTS	1 TANKER (IF AAR REQ), 4+ ADV, RTO
	RQD	NIGHT LFE	6148	AS REQUIRED, TCTS POD	AA, TGT, EXP, MACH 1+, LSR, SST, EW, JDAM, TGT-DISP, TCTS	2 TANKER (IF AAR REQ), 4+ ADV, RTO
6000 SL	SL	MED ALT DIVES, POPS, AND STRAFE	6301	12 MK-76, 500 20MM, 20 CHAFF, 40 FLARE	RSTD, LAT, RKD RNG, LSR, WISS, STRAFE, TGT, LT INERT, EXP	
	SSL	SIM ARMED RECONNAISSANCE	6302			
	SL	ARMED RECONNAISSANCE	6303	2 GBU-38/32, 2 MK-82 OR 6 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT) JDAM, EXP	
	SSL	SIM CAS (GP)	6304			JTAC OR FAC(A)
	SL	DAY OR NIGHT CAS	6305	2 GBU-12/16 OR 2 LGTR, 2 MK-82 OR 6 MK-76, 250 20MM, 20 CHAFF, 40 FLARE	RSTD, EW, LSR, STRAFE, TGT, HE, (HVY INERT), LGB, EXP	JTAC OR FAC(A)
	SL	1 V 1 HIGH ASPECT BFM	6306	CATM-9, 20 CHAFF, 40 FLARE	AA, EXP	AIC
	SL	2V2 VID (L&D) / TAP-THE-CAP	6307	CATM-9, 20 CHAFF, 40 FLARE	AA, MACH 1+, EXP	AIC, 2 DISS ADV
	SL	2 V 2 AWI	6308	CATM-9, CATM-120, 40 CHAFF, 20 FLARE	AA, EXP	AIC, TWO ADVERSARIES
	SL FLSE	2VX NS INTERCEPT	6309	CATM-9, CATM-120, 40 CHAFF, 20 FLARE, TCTS POD	AA, EXP	AIC, TWO ADVERSARIES.
	SSL	2VX NS DCA	6310			
	SSL	SIM MED ALT STK	6311			AIC
	SL CHECK	MED ALT STK	6312	2 GBU-12/16 OR 2 LGTR, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), LGB, EXP	TWO OR MORE (DISSIMILAR) ADVERSARIES, AIC, RTO.
6000 DL	DL	DIVISION RAKED RANGE SORTIE	6401	4 BDU-45 OR 12 MK-76, 500 20 MM, 20 CHAFF, 40 FLARE	LSR, TGT, HE, (LT INERT), (HVY INERT), STRAFE, EXP	
	SDL	4VX OCA SWEEP	6402			AIC
	SDL	4VX DCA	6403			AIC
	DL	4VX DCA	6404	CATM-9, CATM-120, 40 CHAFF, 20 FLARE,	AA, EW, MACH 1+, EXP	AIC, 3+ (DISS) ADV, RTO
	SDL	LOW ALT STK SIM	6405			AIC
	DL FLSE	MED ALT STK	6406	2 GBU-12/16 OR 2 LGTRS AND/OR 2 GBU-32/38, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), JDAM, LGB, EXP	AIC,+ (DISS) ADV, RTO
	DL CHECK	NS MED ALT STK	6407	2 GBU-12/16 OR 2 LGTRS AND/OR 2 GBU-32/38, CATM-9, CATM-120, TCTS POD, 40 CHAFF, 20 FLARE	AA, MACH 1+, AAR, TCTS, EW, LSR, TGT, HE, (LT INERT), (HVY INERT), JDAM, LGB, EXP	AIC, 2+ (DISS) ADV, RTO

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
6000 MC	MC	LFE DCA	6501	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, MACH 1+, EXP, TCTS	AIC, 4+ (DISS) ADV, RTO, AAR PREFERRED
	MC	LFE DAY STK	6502	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EW, MACH 1+, EXP, TCTS	AIC, 4+ BLUE FTRS, 4+ (DISS) ADV, 2 SEAD A/C, 1 EW A/C, TANKER, RTO
	MC CHECK	LFE NIGHT STK	6503	CATM-9, CATM-120, 40 Chaff, 20 Flare, TCTS POD	AA, EXP, TCTS, TGT, LGB, TGT-DISP	AIC, 4+ BLUE FTRS, 4+ (DISS) ADV, 2 SEAD A/C, 1 EW A/C, TANKER, RTO
6000 SWD	SSWD	M61A1 20MM GUN	6701	AT LEAST 250 RDS 20mm	STRAFE	
	SSWD	MK-76	6702	AT LEAST 1 MK-76	LT INERT	
	SSWD	BDU-45/MK-83/84 INERT	6703	AT LEAST 1 INERT MK-82/83/84	HVY INERT	
	SSWD	MK-82/83/84 HE	6704	AT LEAST MK-82/93/84	HE	
	SSWD	LGTR	6705	AT LEAST 1 LGTR	LT INERT, LSR	
	SSWD	GBU-10/12/16/24 INERT	6706	AT LEAST 1 GBU-10/12/16/24 INERT	HVY INERT, LSR	
	SSWD	GBU-10/12/16/24 HE	6707	AT LEAST 1 GBU 10/12/16/24 OR 1 LGTR	HE/HVY INERT, LSR	
	SSWD	CAPTIVE GBU-31/32/38/54	6708	1 CAPTIVE JDAM		
	SSWD	GBU-31/32/38/54 INERT	6709	1 INERT JDAM	HVY INERT	
	SSWD	GBU-31/32/38/54 HE	6710	1 JDAM	HE	
	SSWD	CATM AGM-65E/E2	6711	AT LEAST CAPTIVE AGM-65E/E2 LMAV	LSR	
	SSWD	AGM-65E/E2 HE	6712	AT LEAST 1 AGM-65E/E2 LMAV	LIVE AS MISSILE RANGE, LSR	
	SSWD	ROCKETS	6713	AT LEAST 4 5.00" OR 7 2.75" RKTS	LIVE OR INERT	
	SSWD	APKWS	6714	AT LEAST APKWS	LIVE OR INERT	
	SSWD	ILLUM	6715	AT LEAST 4 5.00" OR 7 2.75" ILLUM RKTS AND OR 4 LUU-2/19	INERT	
	SSWD	CBU-99	6716	AT LEAST 1 CBU-99	CBU	
	SSWD	MK-77	6717	AT LEAST 1 MK-77	LIVE	
	SSWD	CAPTIVE AGM-154	6718	CAPTIVE JSOW		
	SSWD	AGM-154	6719	JSOW	LIVE	
	SSWD	CAPTIVE AGM-88/88E	6720	1 CAPTIVE AGM-88/88E		
SSWD	AGM-88/88E HE/INERT	6721	AT LEAST 1 AGM-88/88E	LIVE AS MISSILE RANGE, EMMITER,	RSO	
SSWD	CAPTIVE AGM-84	6722	1 SLAM(ER), 1 AAW-13 POD			
SSWD	AGM-84 HE/INERT	6723	AT LEAST 1 SLAM(ER), 1 AAW-13 POD	LIVE AS MISSILE RANGE	RSO	
SSWD	TALD/ITALD	6724	1 TALD/ITALD	INERT OR LIVE		

VMFA(AW) FA-18D RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
6000 ASWD	ASWD	A/A GUNNERY (CIRCULAR)	6725	500 RDS 20mm	LIVE AA GUNNERY RANGE	1 BANNER A/C
	ASWD	A/A GUNNERY (FWD QTR)	6726	500 RDS 20mm	LIVE AA GUNNERY RANGE	1 BANNER A/C
	ASWD	AIM-9	6727	1 AIM-9M/X	MISSILE TEST RANGE	
	ASWD	AIM-7	6728	1 AIM-7	MISSILE TEST RANGE	
	ASWD	AIM-120	6729	1 AIM-120	MISSILE TEST RANGE	
	ASWD	BANNER TOW	6730	1 BANNER		
	ASWD	CAPTIVE AIM-9	6731	1 CATM-9		
	ASWD	CAPTIVE AIM-120	6732	1 CATM-120		
	ASWD	M61A1 20MM (NIGHT)	6733	250 20mm	STRAFE	
	ASWD	A/A BRIEFING LAB	6734			
	ASWD	DIVE DELIVERY	6735	SIMULATED OR ACTUAL DIVE DELIVERY ORDNANCE		

2.21 FRS T&R MATRIX

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME											
1000 FAM	AFAM	COURSE INTRO, CO/CLASS ADVISOR INTRO	0001	X	X	X	P		1.0					G			*							
	AFAM	POWER PLANTS	0002	X	X	X	P		1.5					CBT			*							
	AFAM	HYDRAULIC SYSTEMS	0003	X	X	X	P		1.0					CBT			*							
	AFAM	ELECTRICAL SYSTEM	0004	X	X	X	P		1.2					CBT			*							
	AFAM	FUEL SYSTEM	0005	X	X	X	P		1.5					CBT			*							
	AFAM	ECS / OBOGS	0006	X	X	X	P		1.3					CBT			*							
	AFAM	FLIGHT CONTROL SYSTEMS	0007	X	X	X	P		2.5					CBT			*							
	AFAM	LANDING SYSTEM / HOOK / NWS	0008	X	X	X	P		1.0					CBT			*							
	AFAM	DDI/MPCD/UFC/EFD INTRODUCTION	0009	X	X	X	P		1.5					CBT			*							
	AFAM	HUD OPERATION	0010	X	X	X	P		1.0					CBT			*							
	AFAM	CVRS OPERATION	0011	X	X	X	P		1.0					CBT			*							
	AFAM	COMMUNICATION NAVIGATION IDENTIFICATION (CNI)	0012	X	X	X	P		2.5					CBT			*							
	AFAM	INS/GPS OPERATION	0013	X	X	X	P		2.0					CBT			*							
	AFAM	INS UPDATES/DESIGNATIONS/ DEGRADES	0014	X	X	X	P		1.5					CBT			*							
	AFAM	EJECTION EGRESS	0015	X	X	X	P		1.5					CBT			*							
	AFAM	COCKPIT ORIENTATION	0016	X	X	X	P		0.5					CBT			*							
	AFAM	VIS / INS NAVIGATION PROCEDURES	0017	X	X	X	P		1.0					CBT			*							
	AFAM	GROUND PROXIMITY WARNING SYSTEM (GPWS) / TERRAIN AVOIDANCE WARNING SYSTEM (TAWS)	0018	X	X	X	P		0.3					CBT			*							
	AFAM	AIRCRAFT SYSTEMS EXAMINATION	0019	X	X	X	P		1.0					CBT			*							
	AFAM	LIMITATIONS / PROHIBITED MANEUVERS	0020	X	X	X	P		1.5					CBT			*							
	AFAM	COCKPIT CHECKLIST	0021	X	X	X	P		0.5					CBT			*							
	AFAM	FRONT COCKPIT HOTAS	0022	X	X	X	P		1.5					CBT			*							
	AFAM	REAR COCKPIT HOTAS	0023	W	W	W			2.0					CBT			*							
	AFAM	BIT / STATUS MONITORING	0024	X	X	X	P		1.0					CBT			*							
	AFAM	ACLS/ICLS	0025	X	X	X	P		1.0					CBT			*							
	AFAM	NIGHT FLYING	0026	X	X	X	P		0.6					CBT			*							
	AFAM	PREFLIGHT / HOT PIT / HOT SEAT / POSTFLIGHT	0027	X	X	X	P		1.5					CBT			*							
	AFAM	LOT DIFFERENCES	0028	X	X	X	P		1.0					CBT			*							
	AFAM	INSTRUMENT FLIGHT PLANNING	0029	X	X	X	P		2.0					CBT			*							
	AFAM	SECURITY BRIEF	0030	X					0.5					G			*	0001						
	AFAM	AIRCRAFT OVERVIEW	0031	X					0.5					G			*	0001			FAM CI or TSNI			
	AFAM	SAFETY INBRIEF	0032	X					0.5					G			*	0001						
	AFAM	TRANSITION PHASE OVERVIEW	0033	X	X				0.5					G			*	0001			TSN STAN I			
	AFAM	THREAT AND ERROR MANAGEMENT (ORM/CRM)	0034	X					1.0					G			*	0001						
	AFAM	MISSION PLANNING INTRODUCTION	0035	X	X	X	P		1.0					G			*	0033			TSNI			
	AFAM	SDO INDOCTRINATION	0036	X					0.8					G			*	0001						
	AFAM	WSO COURSE INTRO	0037	W					0.5					G			*	0033			TSNI			
	AFAM	SOP INTRODUCTION	0038	X	X	X	P		1.0					G			*	0033			TSNI			
	AFAM	COURSE RULES	0039	X	X	X	P		0.5					G			*	0033			TSNI			
	AFAM	BINGO/DIVERT FIELDS	0040	X	X	X	P		0.3					G			*	0033			TSNI			
	AFAM	SYSTEMS REVIEW I	0041	X					3.0					G			*	0002,0009,0010,0011,0012,0013,0014,0033			FAM CI or TSNI			
	AFAM	FLIGHT CONTROL SYSTEMS I	0042	X					1.5					G			*	0007,0033			FAM CI or TSNI			

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME											
AFAM		EP REVIEW / PCL USAGE	0043	X	X	X	P		1.5					G			*	0033		FAM CI or TSNI				
AFAM		FLT CHARACT, T/O, LANDING, INFLT MANEUVERING/OCF	0044	X					3.0					G			*	0008,0015,0042		FAM CI or TSNI				
AFAM		SYSTEMS REVIEW II	0045	X					3.0					G			*	0003,0008,0015,0041		FAM CI or TSNI				
AFAM		PERFORMANCE DATA / BINGO PROFILE	0046	X	X	X	P		2.0					G			*	0005,0043		FAM CI or TSNI				
AFAM		WSO FAM CREW COORDINATION	0047	W					1.0					G			*	0037		TSNI				
AFAM		WSO EP CREW COORDINATION	0048	W					0.5					G			*	0043,0047		TSNI				
AFAM		SINGLE ENG CONSID / DEGD FLIGHT CHAR	0049	X	X	X	P		2.5					G			*	1002		FAM CI or TSNI				
AFAM		IMMEDIATE ACTION EXAM	0050	X	X	X	P		0.5					G			*	0043,0048--(W)						
AFAM		SYSTEMS REVIEW III	0051	X					3.0					G			*	0004,0005,0006,0045,1002		FAM CI or TSNI				
AFAM		FCLP INTRODUCTION	0052	X					1.0					G			*	0045		TSNI				
LFAM		JMPS LAB	0053	X					1.5					LAB			*	0035						
AFAM		FLIGHT CONTROL SYSTEMS II	0054	X					1.5					G			*	0042		FAM CI or TSNI				
AFAM		SYSTEMS REVIEW IV	0055	X					1.5					G			*	0051,1005		FAM CI or TSNI				
AFAM		NATOPS GROUND SCHOOL	0056	X	X	X	P		3.0					G			365	0033,0061					X	
AFAM		INSTRUMENT GROUND SCHOOL	0057	X	X	X	P		3.5					G			365	0033	6805				X	
AFAM		INSTRUMENT EXAM	0058	X	X	X	P		1.0					G			365	0057	6804				X	
AFAM		RNAV INSTRUMENT PROCEDURES	0059	X	X				2.0					G			*	0017,0053,0057		FAM CI or TSNI				
AFAM		MAINTENANCE INBRIEF	0060	X					0.5					G			*	0033						
AFAM		SEAT BRIEF / SURVIVAL RADIO TRAINING	0061	X	X	X	P		1.0					G			365	0015,0033					X	
AFAM		PREFLIGHT / EGRESS DEMO	0062	X	X				1.0					G			*	0033,0061		TSNI				
AFAM		NATOPS OPEN BOOK EXAM	0063	X	X	X	P		1.0					G			365	0055	6801				X	
AFAM		NATOPS CLOSED BOOK EXAM	0064	X	X	X	P		1.0					G			365	0055	6802				X	
AFAM		TRANSITION PHASE DEBRIEF	0065	X	X	X	P		1.0					G			*	1208--(W),1209--(P)		TSN STAN I				
SFAM		NORMAL OPS I	1001	X	X	X	P				2.0			D	S	1	*	0038,0044,0046,0052		FAM CI or TSNI	X			
SFAM		NORMAL OPS II	1002	X							1.5			D	S	1	*	1001		FAM CI or TSNI	X			
SFAM		NORMAL OPS III	1003	X							1.5			N*	S	1	*	0026,1002		FAM CI or TSNI	X			
SFAM		START / GROUND EMERGENCIES	1004	X	X	X					1.5			D	S	1	*	0050,1003		FAM CI or TSNI	X			
SFAM		ENGINE / AMAD EMERGENCIES	1005	X	X						1.5			D	S	1	*	0049,1004		FAM CI or TSNI	X			
SFAM		FUEL SYSTEM EMERGENCIES	1006	X		X					1.5			D	S	1	*	1005		FAM CI or TSNI	X			
SFAM		ELECTRICAL EMERGENCIES	1007	X	X						1.5			D	S	1	*	0013,0014,0051,1006		FAM CI or TSNI	X			
SFAM		ECS EMERGENCIES	1008	X							1.5			D	S	1	*	1007		FAM CI or TSNI	X			
SFAM		FCS EMERGENCIES / OCF	1009	X	X	X					1.5			D	S	1	*	0054,0055,1008		FAM CI or TSNI	X			
SFAM		HYDRAULICS / COMPLEX EMERGENCIES	1010	X							1.5			D	S	1	*	1009		FAM CI or TSNI	X			
SFAM		NORMAL OPS IV - SAFE FOR FLIGHT	1011	X	X						1.5			D	S	1	*	1010		FAM CI or TSNI	X			
SFAM		RNAV INSTRUMENT PROCEDURES	1012	X	X						1.0			N*	S	1	*	0057,0059,1003		FAM CI or TSNI	X			
LFAM		MAINTENANCE, STARTUP, TAXI, SHUTDOWN PROCEDURES	1013	X					1.0					LAB			*	0060,0062,0063,0064,1011		TSNI	X			
FAM		DAY AEROBATICS	1014	X	X	X	P					1.3		D	A	1	*	0053,1013		TSNI	X			
FAM		INSTRUMENT ROUND ROBIN I	1015	X	X	X	P					1.5		D	A	1	*	1012,1014		TSNI	X			
FAM		INSTRUMENT ROUND ROBIN II	1016	X	P	X	P					1.5		D	A	1	*	1015		TSNI	X			
FAM		INSTRUMENT ROUND ROBIN III	1017	P								1.5		D	A	1	*	1016		TSNI	X			
FAM		PROFICIENCY CHECK / SFS	1018	P	P	P						1.3		D	A	1	*	1017		TSNI	X			
FAM		FAM SOLO	1019	P	P		P					1.5		D	A	1	*	1018		TSNI	X			
FAM		NIGHT FAM / INSTRUMENT PROGRESS CHECK	1020	X	X	X						1.5		N*	A	1	*	1016--(W),1017--(P)		TSNI	X			

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																									
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV	
				B	R	MR	SS	#	TIME	#	TIME	#	TIME												
	FAM	WSO PROFICIENCY CHECK	1021	W		W							1.6	D	A	1		*	1208		TSNI	X			
	SINST	INSTRUMENT EVALUATION	1022	P	P	P	P					1.0	(N*)	S	1		365	0058,1019	6102	INST	X	X			
	SFAM	EMERG PROCEDURES REVIEW (PRE-NATOPS CHECK)	1023	X			P					1.5	D	S	1		*	1020		FAM CI or TSNI	X				
	SNTPS	NATOPS EVALUATION / ORAL EXAM	1024	X	X	X	P					1.5	D	S	1		365	1023	6101, 6803	NI	X	X			
1000 FAM SKILL TOTAL (PILOT)							62	83.5	15	22.0	7	10.1													
1000 FAM SKILL TOTAL (WSO)							66	87.5	14	21.0	5	7.4													
1100 FORM	AFRM	FORMATION FLYING PROCEDURES	0101	X								1.5					*	1019		FAM CI or TSNI					
	AFRM	TAC FORM PROCEDURES	0102	X								1.0					*	0101		FAM CI or TSNI					
	FRM	DAY SECTION FORMATION / SFS	1101	X	X	X							1.6	D	A	2		*	0102,1019,1205		TSNI	X			
	FRM	DAY DIVISION FORMATION	1102	P									1.6	D	A	3+		*	1101		TSNI	X			
	FRM	DAY DIVISION TAC FORMATION	1103	P									1.6	D	A	3+		*	1102		TSNI	X			
1100 FRM SKILL TOTAL (PILOT)							2	2.5	0	0.0	3	4.8													
1100 FRM SKILL TOTAL (WSO)							2	2.5	0	0.0	1	1.6													

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																											
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV			
				B	R	MR	SS	#	TIME	#	TIME	#	TIME														
1200 AWI	AAWI	AWI STAGE OVERVIEW	0201	X										G			*	0102		TSN STAN I							
	AAWI	AIR-TO-AIR RADAR DISPLAYS / AZEL / SA	0202	X	X									CBT			*	0033									
	AAWI	AIR-TO-AIR RADAR MODES OF OPERATION	0203	X	X									CBT			*	0202									
	AAWI	RADAR INTERCEPT FUND / RNDZ TECHNIQUES	0204	X	X									CBT			*	0203									
	AAWI	A/A RADAR OPERATION TECHNIQUES	0205	X	X									CBT			*	0204									
	AAWI	INDICATIONS OF MANEUVERING TARGETS	0206	X	X									CBT			*	0205									
	AAWI	RADAR DEGRADES AND FAILURES	0207	X	X									CBT			*	0206									
	AAWI	MULTI-SOURCE INTEGRATION (MSI)	0208	X	X									CBT			*	0207									
	AAWI	LINK 16 (MIDS) DATA LINK	0209	X	X									CBT			*	0208									
	AAWI	KY-58	0210	X	X									CBT			*	0209									
	AAWI	ALE-39	0211	X	X									CBT			*	0210									
	AAWI	ALE-47	0212	X	X									CBT			*	0211									
	AAWI	EW INTRODUCTION	0213	X	X									CBT			*	0212									
	AAWI	CIT / GPI (IFF MODE 4)	0214	X	X									CBT			*	0213									
	AAWI	RADAR WARNING RECEIVER (ALR-67 V2)	0215	X	X									CBT			*	0213									
	AAWI	SIDEWINDER	0216	X	X									CBT			*	0215									
	AAWI	BASIC A/A RADAR MISSILE FUNDAMENTALS	0217	X	X									CBT			*	0216									
	AAWI	AMRAAM	0218	X	X									CBT			*	0217									
	AAWI	RADAR THEORY	0219	X										G			*	0201,0208		AWI CI or TSNI							
	AAWI	SIDEWINDER OPERATIONS	0220	X										G			*	0216,0219		AWI CI or TSNI							
	AAWI	AMRAAM OPERATIONS	0221	X										G			*	0218,0219		AWI CI or TSNI							
	AAWI	A/A INTERCEPT FUNDAMENTALS / COMM	0222	X										G			*	0220,0221		AWI CI or TSNI							
	AAWI	COMBAT CHECKLIST	0223	X										G			*	0214,0215		AWI CI or TSNI							
	AAWI	STERN CONVERSION INTERCEPTS/RADAR MEC	0224	X										G			*	0222,0223		AWI CI or TSNI							
SAWI	COMBAT CHECKLIST & A/A RADAR MECH I	1201	X										D	S	1	*	0224		AWI CI or TSNI	X							
SAWI	COMBAT CHECKLIST & A/A RADAR MECH II	1202	X										D	S	1	*	1201		AWI CI or TSNI	X							
SAWI	COMBAT CHECKLIST & A/A RADAR MECH III	1203	X										D	S	2	X	*	1202		AWI CI or TSNI	X						
SAWI	STERN CONVERSIONS I	1204	X										D	S	1	*	1203		AWI CI or TSNI	X							
SAWI	STERN CONVERSIONS II / FQ INT INTRO	1205	X	X									D	S	1	*	1204		AWI CI or TSNI	X							
SAWI	FQ INTERCEPTS	1206	X										N*	S	1	*	1101~(W), 1103~(P),1205		AWI CI or TSNI	X							
AWI	FQ INT AND STERN CONVERSION I	1207	X										D	A	2	*	1206		TSNI	X							
AWI	FQ INT AND STERN CONVERSION II	1208	X										D	A	2	*	1022,1207		TSNI	X							
AWI	TRANSITION PHASE CHECK	1209	P										D	A	2	*	1024,1208		TSNI	X							
1200 AWI SKILL TOTAL (PILOT)								24	33.0	6	9.0	3	4.8														
1200 AWI SKILL TOTAL (WSO)								24	33.0	6	9.0	2	3.2														

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME											
	AAS	A/G PHASE OVERVIEW	0301	X	X									G			*	0065		AS STAN I				
	AAS	GP BOMBS / FINS / FUZES	0302	X	X									CBT			*	0301						
	AAS	CARRIAGE EQUIPMENT	0303	X	X									CBT			*	0302						
	AAS	ORDNANCE PREFLIGHT / ARMING / DEARMING	0304	X	X									CBT			*	0303						
	AAS	SMS PROGRAMMING	0305	X	X									CBT			*	0304						
	AAS	JETTISON SYSTEM	0306	X	X									CBT			*	0305						
	AAS	RELEASE LIMITATIONS	0307	X	X									CBT			*	0306						
	AAS	A/G FUNCTIONS / OPTIONS AND DISPLAYS	0308	X	X									CBT			*	0307						
	AAS	M61A1/2 GUN	0309	X	X									CBT			*	0305						
	AAS	A/G GUN OPERATION & DISPLAYS	0310	X	X									CBT			*	0309						
	AAS	BOMBS / FINS / FUZES	0311	X										G			*	0305		AS CI or ASI				
	AAS	STRIKE WEAPONS DELIVERY GEOMETRY I	0312	X										G			*	0308,0311		AS CI or ASI				
	LAS	JMPS / WASP LAB	0313	X										LAB			*	0312						
	AAS	COMBAT CHECKLIST	0314	X										G			*	0313		AS CI or ASI				
	AAS	A/G GUNNERY	0315	X										G			*	0310,1302		AS CI or ASI				
	LAS	GUN PREFLIGHT TOUR	0316	X										LAB			*	0315						
	AAS	STRIKE WEAPONS DELIVERY GEOMETRY II	0317	X										G			*	1304		AS CI or ASI				
	AAS	A/G RADAR MODES	0318	X	X									CBT			*	0308						
	AAS	RADAR NAVIGATION / BOMBING	0319	X	X									CBT			*	0318						
	AAS	A/G RADAR PROCEDURES / PREDICTIONS	0320	X										G			*	0313,0319		AS CI or ASI				
	AAS	OFFSET RADAR BOMBING	0321	X										G			*	0320		AS CI or ASI				
	AAS	A/S DEFENSIVE COUNTERMEASURES	0322	X										G			*	0301		AS CI or ASI				
	AAS	ATFLIR	0323	X										CBT			*	0308						
	AAS	TGP	0324	X	X									G			*	0323		AS CI or ASI				
	AAS	SMART WEAPONS INTRODUCTION	0325	X										CBT			*	0324						
	AAS	LGB	0326	X										CBT			*	0325						
	AAS	LMAV	0327	X										CBT			*	0325						
	AAS	LGB / LMAV	0328	X	X									G			*	0326,0327		AS CI or ASI				
	AAS	JDAM	0329	X										CBT			*	0325						
	AAS	JDAM / LJDAM	0330	X	X									G			*	0329		AS CI or ASI				
	LAS	JDAM MSN PLANNING LAB	0331	X										LAB			*	0330		AS CI or ASI				
	AAS	A/G PHASE DEBRIEF	0332	X	X									G			*	1308,1346,1349,1351		AS STAN I				
	SAS	SMS DISPLAYS / MED ANGLE DIVE DELIVERIES	1301	X										D	S	1	*	0314		AS CI or ASI	X			
	SAS	MED ANGLE DIVE DELIVERIES	1302	X	X	X								D	S	1	*	1301		AS CI or ASI	X			
	SAS	LOW ANGLE DIVE / STRAFE	1303	X										D	S	1	*	0315,1302		AS CI or ASI	X			
	SAS	INTEGRATED MED ANGLE DIVE / BUNT STRAFE	1304	X										D	S	2+	X	*	1303		AS CI or ASI	X		
	AS	MED ANGLE DIVE DELIV / SFS	1305	X	X	X								D	A	2+	*	1304		ASI	X			
	AS	MED ANGLE DIVE DELIV	1306	P										D	A	2+	*	1305		ASI	X			
	AS	LOW ANGLE DIVE / STRAFE	1307	X										D	A	2+	*	0316,1305~(W),1306~(P)		ASI	X			
	AS	LIVE ORDNANCE / STRAFE	1308	X										D	A	2+	*	1307		ASI	X			
	SAS	LOW ANGLE POP ATTACKS / BUNT STRAFE	1309	X	X									D	S	1	*	0317,1304,1403		AS CI or ASI	X			
	SAS	SECTION POP ATTACKS	1310	X										D	S	2	X	*	1309		AS CI or ASI	X		
	AS	LOW ANGLE POP ATTACKS / BUNT STRAFE / SFS	1311	P										D	A	1	*	1310		ASI	X			
	AS	SECTION POP ATTACKS	1312	X	X									D	A	2	*	1310~(W),1311~(P)		ASI	X			
	SAS	SENSOR ACQ & DELIVERIES	1313	X	X									D	S	1	*	0321,0324,1310		PGM CI or ASI	X			
	SAS	LGB / LMAV	1314	X	X									D	S	1	*	0328,1313		PGM CI or ASI	X			
	SAS	JDAM / LJDAM	1315	X	X									D	S	1	*	0331,1313		PGM CI or ASI	X			
	AS	SENSOR ATTACKS / LGB	1316	X	X									D	A	1	*	1314		ASI	X			
	AS	JDAM / SACT	1317	X										D	A	1	*	1315		ASI	X			
	AS	LJDAM EMPLOYMENT	1318	X										D	A	1	*	1317		ASI	X			
	AS	PGM STK / SACT	1319	X	X									D	A	2	*	1316,1317		ASI	X			
	1300 AS SKILL TOTAL (PILOT)								32	41.0	9	12.1	10	13.2										
	1300 AS SKILL TOTAL (WSO)								32	41.0	9	12.1	8	10.6										

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																									
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONY	
				B	R	MR	SS	#	TIME	#	TIME	#	TIME												
1340 CAS	ACAS	CLOSE AIR SUPPORT	0340	X										G			*	1312		CAS CI or CASI					
	ACAS	CAS FLIGHT CHALK TALK	0341	X	X									G			*	1342		CAS CI or CASI					
	ACAS	URBAN CAS FUNDAMENTALS	0342	X										G			*	1318,1341		CAS CI or CASI					
	ACAS	URBAN CAS PGM EMPLOYMENT	0343	X	X									G			*	0342		CAS CI or CASI					
	SCAS	CAS INTRO	1340	X							1.5			D	S	1	*	0340		CAS CI or CASI	X				
	SCAS	MED / LOW THREAT CAS	1341	X	X						1.5			D	S	1	*	1340		CAS CI or CASI	X				
	SCAS	HIGH THREAT CAS	1342	X							1.5			D	S	1	*	1341		CAS CI or CASI	X				
	CAS	CAS INTRO / SFS	1343	X									1.3	D	A	2+	*	0341,1341		CASI	X				
	CAS	MED / LOW THREAT CAS	1344	X	X								1.3	D	A	2+	*	1343		CASI	X				
	CAS	HIGH THREAT CAS	1345	X	X								1.3	D	A	2+	*	1342,1344,1408		CASI	X				
	CAS	SECTION CAS	1346	X	X								1.3	D	A	2	*	1345		CASI	X				
SCAS	URBAN CAS I (JDAM/LMAV)	1347	X							1.5			D	S	1	*	0343,1345		CAS CI or CASI	X					
SCAS	URBAN CAS II (LGB/LJDAM)	1348	X	X						1.5			D	S	1	*	1347		CAS CI or CASI	X					
CAS	URBAN CAS	1349	X	X								1.3	D	A	1	*	1319,1348		CASI	X					
1340 CAS SKILL TOTAL (PILOT)							4	6.0	5	7.5	5	6.5													
1340 CAS SKILL TOTAL (WSO)							4	6.0	5	7.5	5	6.5													
1350 SCAR	AAR	ADVANCED COMBAT SYSTEMS	0350	X						1.0				G			*	0340		CAS CI or CASI					
	AAR	AR	0351	X						2.0				G			*	0350		CAS CI or CASI					
	SAR	AR	1350	X							1.5			D	S	1+	*	0351		CAS CI or CASI	X				
	AR	INTRO TO AR	1351	X	X								1.3	D	A	2+	*	1350		CASI	X				
1350 SCAR SKILL TOTAL (PILOT)							2	3.0	1	1.5	1	1.3													
1350 SCAR SKILL TOTAL (WSO)							2	3.0	1	1.5	1	1.3													
1360 FAC(A)	AFAC(A)	FAC(A) EMPLOYMENT	0360	W						1.5				G			*	1348		FFACAIW					
	AFAC(A)	FAC(A) MISSION PLANNING	0361	W						1.5				G			*	0360		FFACAIW					
	AFAC(A)	FAC(A) TERMINAL CONTROL PROCEDURES	0362	W						1.5				G			*	0361		FFACAIW					
	AFAC(A)	FAC(A) CREW COORDINATION	0363	W						1.0				G			*	0362		FFACAIW					
	AFAC(A)	FAC(A) DEMO BRIEF / CHALK TALK	0364	W						2.0				G			*	0363		FFACAIW					
	LFAC(A)	FAC(A) BRIEFING LAB	0365	W						1.5				LAB			*	0364		FFACAIW	X				
	SFAC(A)	FAC(A) MED THREAT	1360	W							1.5			D	S	2	X	*	0365		FFACAI	X			
	SFAC(A)	FAC(A) LOW THREAT	1361	W							1.5			D	S	2	X	*	1360		FFACAI	X			
	FAC(A)	FAC(A) MED THREAT	1362	W									1.3	D	A	2	*	1361		FFACAI	X				
FAC(A)	FAC(A) LOW THREAT	1363	W									1.3	D	A	2	*	1362		FFACAI	X					
1360 FAC(A) SKILL TOTAL (WSO)							6	9.0	2	3.0	2	2.6													

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																											
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONY			
				B	R	MR	SS	#	TIME	#	TIME	#	TIME														
1400 LAT	ALAT	LAT INTRODUCTION	0401	X	X									CBT			*	0301									
	ALAT	LAT BASICS	0402	X	X									CBT			*	0401									
	ALAT	LAT PHYSICS AND AERODYNAMICS	0403	X	X									CBT			*	0402									
	ALAT	VISUAL PERCEPTIONS	0404	X	X									CBT			*	0403									
	ALAT	LOW LEVEL CHART INTERPRETATION	0405	X	X									CBT			*	0401									
	ALAT	LOW LEVEL PROCEDURES AND TECHNIQUES	0406	X										G			*	0301,0404			LAT CI or FLATI						
	ALAT	THREAT SAMS	0407	X										G			*	0322			LAT CI or FLATI						
	ALAT	ADA	0408	X										G			*	0407			LAT CI or FLATI						
	ALAT	SACT	0409	X										G			*	0408			LAT CI or FLATI						
	ALAT	LAT MANEUVERS	0410	X										G			*	0409			LAT CI or FLATI						
	SLAT	LOW LEVEL NAVIGATION	1401	X										D	S	1	*	0406,1307			AS CI or TSNI	X					
	LAT	LOW LEVEL NAVIGATION	1402	X	X									D	A	1	*	1401			TSNI	X					
	SLAT	LAT INTRODUCTION	1403	X										D	S	1	*	0410,1401			LAT CI or FLATI	X					
	SLAT	LAT / SACT	1404	P										D	S	1	*	1403			LAT CI or FLATI	X					
	SLAT	SECTION LAT / SACT	1405	X										D	S	2	X	*	1403~(W),1404~(P)			LAT CI or FLATI	X				
LAT	LAT INTRO / SFS	1406	P										D	A	1	*	1402,1404			FLATI	X						
LAT	LAT	1407	P										D	A	2	*	1405,1406			FLATI	X						
LAT	LAT SECTION MANEUVERING	1408	X										D	A	2	*	1405~(W),1407~(P)			FLATI	X						
1400 LAT SKILL TOTAL (PILOT)								10	14.5	4	5.6	4	5.4														
1400 LAT SKILL TOTAL (WSO)								10	14.5	3	4.3	2	2.8														
1500 N/NSF	AFTN	FTN I PHASE OVERVIEW	0501	X										G			*	0332			FTN STAN I						
	LNSF	NITE LAB	0502	X	X	X								LAB			*										
	ANSF	NS TACTICAL CONSIDERATIONS	0503	X										G			*	0502			NSFI						
	SFAM	A/G / FTN PHASE EP REVIEW	1501	X										N*	S	1	*	0501			FAM CI or TSNI	X					
	FAM	NIGHT INSTRUMENT ROUND ROBIN	1502	P										N*	A	1	*	1501			TSNI	X					
	FRM	NIGHT SECTION FORMATION	1503	X										N*	A	2	*	1502			TSNI	X					
	AWI	NIGHT FQ INTERCEPT AND STERN CONVERSION	1504	X										N*	A	2	*	1503			TSNI	X					
	SNSF	NVG FAM	1505	X										NS	S	1	*	0503,1501			NSFI	X					
	NSF	NVG FAM/AWI	1506	X	X									NS	A	2	*	1504,1505			NSFI	X					
NSF	NVG DIVE DELIVERIES	1507	P	P									NS	A	2+	*	1506			NSFI	X						
1500 N/NSF SKILL TOTAL (PILOT)								3	7.5	2	2.0	5	7.5														
1500 N/NSF SKILL TOTAL (WSO)								3	7.5	2	2.0	3	4.7														
1600 AAR	AAAR	AERIAL REFUELING PROCEDURES / SIGHT PICTURES	0601	P										G			*	0301			AARI						
	AAR	AERIAL REFUELING	1601	P										D	A	2	*	0601			AARI	X					
	AAR	NIGHT AERIAL REFUELING	1602	P										N*	A	2	*	1504,1601			AARI	X					
1600 AAR SKILL TOTAL (PILOT)								1	1.5	0	0.0	2	2.0														
1600 AAR SKILL TOTAL (WSO)								0	0.0	0	0.0	0	0.0														

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME											
1700 AA	AAA	A/A PHASE OVERVIEW	0701	X	X	X								G			*	0065		AA STAN I				
	AAA	ACM TRAINING RULES	0702	X	X									CBT			*	0701						
	AAA	A/A GUN OPERATION/DISPLAYS	0703	X	X									CBT			*	0701						
	AAA	A/A TRAINING RULES	0704	X										G			*	0702		AA CI or AAI				
	AAA	SIDEWINDER OPERATIONS	0705	X										G			*	0701		AA CI or AAI				
	AAA	AMRAAM OPERATIONS	0706	X										G			*	0701		AA CI or AAI				
	AAA	FA-18 AIR-TO-AIR RADAR MECHANICS	0707	X										G			*	0701		AA CI or AAI				
	AAA	FA-18 BVR SHOT VALIDATION	0708	X										G			*	0705,0706,0707		AA CI or AAI				
	AAA	FA-18 AIR-TO-AIR CONCEPTS AND TIMELINE	0709	X										G			*	0707		AA CI or AAI				
	AAA	AIC COMM	0710	X										G			*	0709		AA CI or AAI				
	AAA	L&D EXECUTION	0711	X	X	X								G			*	0710		AA CI or AAI				
	LAA	L&D TARGETING LAB	0712	X	X	X								LAB			*	0711		AA CI or AAI				
	AAA	MANEUVERING TARGETS	0713	X										G			*	1705		AA CI or AAI				
	AAA	A/A PHASE DEBRIEF	0714	X	X									G			*	1718,1734,1809,1821		AA STAN I				
	SAA	1V1 L&D INTERCEPTS I	1701	X										D	S	1	*	0712		AA CI or AAI	X			
	SAA	1V2 L&D INTERCEPTS II	1702	X	X									D	S	1	*	1701		AA CI or AAI	X			
	SAA	1V2 L&D INTERCEPTS III	1703	X		X								D	S	1	*	1702		AA CI or AAI	X			
	SAA	2V2 L&D INTERCEPTS I	1704	X	X									D	S	2	X	*	1703		AA CI or AAI	X		
	SAA	2V2 L&D INTERCEPTS II	1705	X										D	S	2	X	*	1704		AA CI or AAI	X		
	AA	1V1 L&D INTERCEPTS	1706	X		X								D	A	2	*	1705		AAI	X			
	AA	2VX L&D INTERCEPTS I / SFS	1707	X	X									D	A	2	*	1706		AAI	X			
	AA	2VX L&D INTERCEPTS II	1708	X	X									D	A	2	*	1707		AAI	X			
	SAA	1V2 MANEUVERING TARGETS	1709	X										D	S	1	*	0713,1705		AA CI or AAI	X			
	SAA	2V2 MANEUVERING TARGETS	1710	X										D	S	2	X	*	1709		AA CI or AAI	X		
	AA	2VX MANEUVERING TARGETS I	1711	X										D	A	2	*	1708,1710		AAI	X			
	AA	2VX MANEUVERING TARGETS II	1712	X										D	A	2	*	1711		AAI	X			
	SAA	2V2 IFD AND NOTCHBACK	1713	X										D	S	2	X	*	1710		AA CI or AAI	X		
	SAA	2VX L&D FLOW DESIRED	1714	X										D	S	2	X	*	1713		AA CI or AAI	X		
	SAA	2VX L&D FLOW REQUIRED	1715	X										D	S	2	X	*	1714		AA CI or AAI	X		
	AA	2VX L&D FLOW DESIRED	1716	X										D	A	2	*	1712,1714		AAI	X			
AA	2VX L&D FLOW REQUIRED	1717	X										D	A	2	*	1715,1716		AAI	X				
SFAM	A/A PHASE EP REVIEW	1718	X										(N*)	S	1	*	1715		FAM CI or TSNI	X				
1700 AA SKILL TOTAL (PILOT)							14	14.5	11	14.0	7	9.4												
1700 AA SKILL TOTAL (WSO)							14	14.5	11	14.0	7	9.4												

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																												
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONY				
				B	R	MR	SS	#	TIME	#	TIME	#	TIME															
1720 BFM / OCF	ABFM	G LOSS OF CONSCIOUSNESS	0721	X										G			*	0701			BFMI							
	AOCF	DEPARTURE CHARACTERISTICS	0722	X										G			*	0721			OCFI							
	ABFM	FIGHTER PERFORMANCE & COMPARISON / ENGAGEMENT MINDSET	0723	X										G			*	0722			BFMI							
	ABFM	AIR-TO-AIR GUNNERY	0724	X										G			*	0723			BFMI							
	ABFM	FA-18 WVR SHOT VALIDATION	0725	X										G			*	0724			BFMI							
	ABFM	A/A DEFENSIVE COUNTERMEASURES	0726	X										G			*	0701			BFMI							
	ABFM	OFFENSIVE BFM	0727	X										G			*	0723			BFMI							
	ABFM	DEFENSIVE BFM	0728	X										G			*	0727			BFMI							
	ABFM	WSO BFM CREW COORDINATION	0729	W										G			*	0728			BFMIW							
	ABFM	HIGH ASPECT BFM	0730	X										G			*	0728			BFMI							
	ABFM	SECTION ENGAGED MANEUVERING	0731	X										G			*	0730			BFMI							
	SBFM	BFM TACADMIN	1720	X								1.0		D	S	2	X	*	0728			BFMI	X					
	OCF	OCF/DEPARTURE TRAINING	1721	P									1.2	D	A	1		*	0722			OCFI	X					
	BFM	ADVANCED HANDLING CHARACTERISTICS	1722	P	P								1.2	D	A	1		*	1721			BFMI	X					
	BFM	PERCH BFM FUNDAMENTALS	1723	X									1.0	D	A	2		*	1720,1722~(P)			BFMI	X					
	BFM	OFFENSIVE PERCH BFM / SFS	1724	X	X								1.0	D	A	2		*	1723			BFMI	X					
	BFM	OFFENSIVE PERCH BFM	1725	P	P								1.0	D	A	2		*	1724			BFMI	X					
	BFM	DEFENSIVE PERCH BFM / SFS	1726	X	X	X							1.0	D	A	2		*	1724~(W),1725~(P)			BFMI	X					
	BFM	DEFENSIVE PERCH BFM	1727	P	P								1.0	D	A	2		*	1726			BFMI	X					
	BFM	PERCH BFM COMBO	1728	P									1.0	D	A	2		*	1727			BFMI	X					
BFM	HIGH ASPECT BFM / SFS	1729	X	X								1.0	D	A	2		*	0730,1726~(W),1728~(P)			BFMI	X						
BFM	HIGH ASPECT BFM	1730	X	X								1.0	D	A	2		*	1729			BFMI	X						
SBFM	2V1 SEM VISUAL SETS PRACTICE	1731	X								1.0		D	S	3	X	*	0731,1730			BFMI	X						
BFM	2V1 SEM VISUAL SETS	1732	X	X								1.0	D	A	2		*	1731			BFMI	X						
SBFM	VID / TAP-THE-CAP PRACTICE	1733	X								1.0		D	S	3	X	*	1731			BFMI	X						
BFM	VID / TAP-THE-CAP	1734	X	X								1.0	D	A	2		*	1732,1733			BFMI	X						
1720 BFM/OCF SKILL TOTAL (PILOT)								10	12.5	3	3.0	12	12.4															
1720 BFM/OCF SKILL TOTAL (WSO)								11	13.0	3	3.0	7	7.0															
1800 AAD	AAAD	L&L EXECUTION	0801	X	X	X								G			*	1715			AAD CI or AADI							
	LAAD	L&L TARGETING LAB	0802	X	X	X								LAB			*	0801			AAD CI or AADI							
	AAAD	WSO AAD TACTICAL CREW COORDINATION	0803	W										G			*	0802			AADIW							
	AAAD	TCTS DEBRIEF INTRO	0804	X										G			*	0802			AAD CI or AADI							
	AAAD	DCA PLANNING AND EXECUTION	0805	X										G			*	1802			AAD CI or AADI							
	SAAD	1V2 L&L	1801	X	X							1.3		D	S	1+		*	0804			AAD CI or AADI	X					
	SAAD	2V2 L&L	1802	X	X							1.3		D	S	2	X	*	1801			AAD CI or AADI	X					
	AAD	2VX L&L	1803	X	X								1.2		D	A	2		*	1717,1802			AADI	X				
	SAAD	4VX DCA I	1804	X	X	X						1.5		D	S	4	X	*	0805,1802			AAD CI or AADI	X					
	SAAD	4VX DCA II	1805	X	X	X						1.5		D	S	4	X	*	1804			AAD CI or AADI	X					
	AAD	2VX OR 4VX DCA	1806	X	X								1.2		D	A	2+		*	1803,1805			AADI	X				
	AAD	4VX DCA I	1807	X	X								1.2		D	A	4		*	1806			AADI	X				
	AAD	4VX DCA II	1808	X	X								1.2		D	A/S	4		*	1807			AADI	X				
AAD	4VX DCA III	1809	X	X								1.2		D	A/S	4		*	1808			AADI	X					
1800 AAD SKILL TOTAL (PILOT)								4	5.0	4	5.6	5	6.0															
1800 AAD SKILL TOTAL (WSO)								5	5.5	4	5.6	5	6.0															

VMFAT F/A-18 A/C/D FRS REPLACEMENT AIRCREW T&R MATRIX																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	MIRROR	INSTRUCTOR	EVAL	EOM	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME											
1820 STK	ASTK	STRIKE PLANNING AND EXECUTION	0820	X	X									G			*	1805		STK CI or STKI				
	LSTK	STRIKE PLANNING LAB / RADAR & FLIR PREDICTIONS	0821	X										LAB			*	0820		STK CI or STKI	X			
	SSTK	4VX STRIKE	1820	X	X							1.5		D	S	4	X	*	0821		STK CI or STKI	X		
	STK	2VX OR 4VX STRIKE	1821	X	X									D	A	2+		*	1809,1820		STKI	X		
1820 STK SKILL TOTAL (PILOT)							2	5.0	1	1.5	1	1.3												
1820 STK SKILL TOTAL (WSO)							2	5.0	1	1.5	1	1.3												
1900 FTN	AFTN	FTN II PHASE OVERVIEW	0901	X										G			*	1351		FTN STAN I				
	AFTN	JSOW	0902	X										CBT			*	0901						
	AFTN	MINES	0903	X										CBT			*	0901						
	AFTN	ROCKETS	0904	X										CBT			*	0901						
	AFTN	JHMCS	0905	X										CBT			*	0901						
	AFTN	HARPOON	0906	X										CBT			*	0901						
	AFTN	ALQ-126B	0907	X										CBT			*	0901						
	AFTN	ANTI-RADIATION MISSILES (HARM/AARGM)	0908	X										CBT			*	0901						
	AFTN	ANTI-RADIATION MISSILES (HARM/AARGM)	0909	X										G			*	0908		AS CI or ASI				
	AFTN	CROSS COUNTRY SERVICING	0910	X										G			*	0901		FAM CI or FTNI				
	LFTN	CROSS COUNTRY PLANNING LAB	0911	X										LAB			*	0901		FAM CI or FTNI				
AFTN	FTN / FRS DEBRIEF	0912	X										G			*	0902-0907,1901		FTN STAN I					
SFTN	HARM EMPLOYMENT	1901	X								1.5		D	S	1		*	0909		AS CI or ASI	X			
1900 FTN SKILL TOTAL (PILOT)							12	12.1	1	1.5	0	0.0												
1900 FTN SKILL TOTAL (WSO)							12	12.1	1	1.5	0	0.0												
1000 FRS TOTAL (PILOT)							182	241.6	62	85.3	65	84.7												
1000 FRS TOTAL (WSO)							193	254.1	62	86.0	49	64.4												

2.22 FA-18A/C/D FRS IUT T&R MATRIX

VMFAT F/A-18 A/C/D FRS IUT T&R MATRIX																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	INSTRUCTOR	EVAL	EVENT CONV	
				B	R	#	TIME	#	TIME	#	TIME												
5800 TSNI	ATSNI	IUT INDOC	5801	X										G			*	6407		TSN STAN I or CI STAN I			
	ATSNI	COURSE RULES (PCS AIRCREW ONLY)	5802	X										G			*	5801					
	AODO	ODO FAM (SHADOW)	5803	X										G			*	5802		TSNI			
	AODO	ODO CHECK (NATOPS CHECK/EP)	5804	X										G			*	5803		TSNI			
	ATSNI	TRANSITION PHASE INDOC	5805	X										G			*	5802		TSN STAN I			
	AFAM	OBSERVE FAM BRIEF / FAM 1014 OR FAM 1018	5806	X										G			*	5805		TSN STAN I			
	ATSNI	WSO TRANSITION BRIEF	5807	X										G			*	5805		TSN STAN IW			
	LFAMI	BRIEF DAY AEROBATICS / FAM 1014	5808	X										LAB			*	5806		TSN STAN I	X		
	SFAMI	INTRO TSN CREW COORD - A/C PILOTS	5809	P								1.0		D	S	1		*	5807		TSNIW	X	

VMFAT F/A-18 A/C/D FRS IUT T&R MATRIX																				
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	INSTRUCTOR	EVAL	EVENT CONV
				B	R	#	TIME	#	TIME	#	TIME									
	FAMI	INTRO REAR SEAT FAM	5810	P							1.0	D	A	1+		*	5809	TSN STAN I	X	
	FRMI	FRM IUT (DASH 3) / FRM 1102 OR 1103	5811	P							1.6	D	A	3+		*	5810	TSN STAN I	X	
	LAWII	BRIEF FQ INT AND STERN CONVERSION II / AWI 1208	5812	X			1.5						LAB			*	5808	TSN STAN I	X	
	AADV	RED AIR INDOCTRINATION	5813	X			0.5						G			*	5801	AA STAN I		
5800 TSNI SKILL TOTAL (PILOT)						10	9.0	1	1.0	2	2.6									
5800 TSNI SKILL TOTAL (WSO)						10	9.0	0	0.0	0	0.0									
5800 ASI	AASI	A/G PHASE INDOC	5814	X			0.5						G			*	5813	AS STAN I		
	AASI	A/G CREW COORD - A/C PILOTS	5815	P			0.5						G			*	5814	AS STAN IW		
	ASI	DIVE DELIVERIES IUT (DASH 3) / AS 1305 OR 1306	5816	X							1.3	D	A	3+		*	5815~P,5814~W	AS STAN I	X	
	LASI	BRIEF MED ANGLE DIVE DEL / SFS / AS 1305	5817	P			1.5						LAB			*	5816	AS STAN I	X	
	ASI	LEAD SECT POP ATTKS / AS 1312	5818	P							1.3	D	A	2		*	5817	AS STAN I	X	
	LASI	BRIEF LJDAM EMPLOYMENT / AS 1318	5819	X			1.5							LAB		*	5814	AS STAN I	X	
5800 ASI SKILL TOTAL (PILOT)						4	4.0	0	0.0	2	2.6									
5800 ASI SKILL TOTAL (WSO)						2	2.0	0	0.0	1	1.3									
5800 CASI	ACASI	CAS IUT INDOC	5820	X			1.0						G			*	5819	CAS STAN I		
	SCASI	CAS IUT INTRO / SCAS 1340	5821	X					1.0			D	S	1		*	5820	CAS STAN I	X	
	SCASI	MARK INTEGRATION	5822	P					1.0			D	S	1		*	5821	CAS STAN I	X	
	CASI	LEAD CAS INTRO / SFS / CAS 1343	5823	X							1.5	D	A	2		*	5822~P,5821~W	CAS STAN I	X	
	ASCARI	OBSERVE INTRO TO AR BRIEF / AR 1351	5824	P			1.5							G		*	5823	CAS STAN I		
5800 CASI SKILL TOTAL (PILOT)						2	2.5	2	2.0	1	1.5									
5800 CASI SKILL TOTAL (WSO)						1	1.0	1	1.0	1	1.5									
5800 FFAC(A)I	AFFAC(A)I	OBSERVE FAC(A) DEMO BRIEF / AFAC(A) 0364	5825	X			2.0						G			*	5823,6207	FFAC(A) STAN I		
	SFFAC(A)I	LEAD FAC(A) MED THREAT / SFAC(A) 1360	5826	P					1.5			D	S	2	X	*	5825	FFAC(A) STAN I	X	
	SFFAC(A)I	BRIEF AND CONTROL (MOC) FAC(A) MED THREAT / SFAC(A) 1360	5827	W					1.5			D	S	2	X	*	5825	FFAC(A) STAN I	X	
	FFAC(A)I	FAC(A) CHECK	5828	X							1.5	D	A	2+		*	5826~P,5827~W	FFAC(A) STAN I	X	
5800 FFAC(A)I SKILL TOTAL (PILOT)						1	2.0	1	1.5	1	1.5									
5800 FFAC(A)I SKILL TOTAL (WSO)						1	2.0	1	1.5	1	1.5									
5800 FLATI	AFLATI	LAT IUT INDOC	5829	P			0.5						G			*	5104,5819	FLAT STAN I		
	SFLATI	REAR SEAT LAT INTRO / SLAT 1403	5830	P					1.0			D	S	1		*	5829	FLAT STAN I	X	
	FLATI	REAR SEAT LAT INTRO / SFS / LAT 1406	5831	P							1.3	D	A	1		*	5830	FLAT STAN I	X	
	FLATI	LEAD LAT SECT MAN / LAT 1408	5832	P							1.3	D	A	2		*	5831	FLAT STAN I	X	
5800 FLATI SKILL TOTAL (PILOT)						1	0.5	1	1.0	2	2.6									
5800 NSFI	LNSFI	BRIEF NS TACTICAL CONSIDS	5833	X			1.0						LAB			*	5819	NSF STAN I	X	
	SNSFI	OBSERVE NVG FAM / SNSF 1505	5834	X					1.0			NS	S	1		*	5833	NSF STAN I	X	
	ANSFI	OBSERVE NVG FAM / AWI BRIEF / NSF 1506	5835	X			1.0						G			*	5834	NSF STAN I		
	NSFI	BRIEF AND OBSERVE NVG FAM / AWI / NSF 1506	5836	X							1.5	NS	A	2		*	5835	NSF STAN I	X	
5800 NSFI SKILL TOTAL (PILOT)						2	2.0	1	1.0	1	1.5									
5800 NSFI SKILL TOTAL (WSO)						2	2.0	1	1.0	1	1.5									
5800 AARI	AARI	REAR SEAT AAR INTRO (LEAD) / AAR 1601 or 1602	5837	P							1.0	(N*)	A	2		*	5813	AAR STAN I	X	

VMFAT F/A-18 A/C/D FRS IUT T&R MATRIX																				
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	INSTRUCTOR	EVAL	EVENT CONV
				B	R	#	TIME	#	TIME	#	TIME									
5800 AARI SKILL TOTAL (PILOT)						0	0.0	0	0.0	1	1.0									
5800 AAI	AAAI	A/A IUT INDOC	5838	X			0.5						G			*	5813	AA STAN I		
	AAAI	OBSERVE ANY CAT I AA SIM	5839	X			2.5						G			*	5838	AA STAN I		
	SAAI	LEAD 2V2 L&D INTERCEPTS II / SAA 1705	5840	X					1.0			D	S	2	X	*	5839	AA STAN I	X	
	AAI	2VX L&D FLOW DESIRED REAR SEAT INTRO / AA 1716	5841	X							1.2	D	A	2		*	5840	AA STAN I		X
5800 AAI SKILL TOTAL (PILOT)						2	3.0	1	1.0	1	1.2									
5800 AAI SKILL TOTAL (WSO)						2	3.0	1	1.0	1	1.2									
5800 BFMI	ABFMI	BFM IUT INDOC	5842	P			0.5						G			*	5841	BFM STAN I		
	LBFMI	PERCH BFM BRIEFING LAB	5843	P			1.5						LAB			*	5842	BFM STAN I	X	
	LBFMI	HA BFM BRIEFING LAB	5844	P			1.5						LAB			*	5843	BFM STAN I	X	
	LBFMI	SEM BRIEFING LAB	5845	P			1.5						LAB			*	5844	BFM STAN I	X	
	BFMI	PERCH BFM	5846	P							1.0	D	A	2		*	5843	BFM STAN I	X	
	BFMI	PERCH BFM REAR SEAT INTRO (LEAD FOR ANY CAT I PERCH BFM)	5847	P							1.0	D	A	2		*	5846	BFM STAN I	X	
	BFMI	SEM	5848	P							1.0	D	A	2		*	5845	BFM STAN I	X	
5800 BFMI SKILL TOTAL (PILOT)						4	5.0	0	0.0	3	3.0									
5800 AADI	AAADI	AAD IUT INDOC	5849	X			0.5						G			*	5841	AAD STAN I		
	AAADI	OBSERVE ANY CAT-1 AAD SIM	5850	X			2.5						G			*	5849	AAD STAN I		
	LAADI	BRIEF 4VX DCA III / AAD 1809	5851	X			1.5						LAB			*	5850	AAD STAN I	X	
	SAADI	LEAD 2V2 L&L / SAAD 1802	5852	X					1.0			D	S	2	X	*	5851	AAD STAN I	X	
	SAADI	4VX DCA I (DASH 3) / SAAD 1804	5853	X					1.0			D	S	4	X	*	5852	AAD STAN I	X	
	SAADI	LEAD 4VX DCA II / SAAD 1805	5854	X					1.0			D	S	4	X	*	5853	AAD STAN I	X	
	AADI	4VX DCA REAR SEAT INTRO (LEAD FOR ANY CAT I 4VX DCA) / AAD 1806-1809	5855	X							1.2	D	A	4		*	5854	AAD STAN I	X	
	AADI	4VX DCA (DASH 3 FOR ANY CAT I 4VX DCA) / AAD 1806-1809	5856	X							1.2	D	A	4		*	5855	AAD STAN I	X	
5800 AADI SKILL TOTAL (PILOT)						3	4.5	3	3.0	2	2.4									
5800 AADI SKILL TOTAL (WSO)						3	4.5	3	3.0	2	2.4									
5800 STKI	ASTKI	STK IUT INDOC	5857	X			0.5						G			*	5819,5856	STK STAN I		
	SSTKI	LEAD 4VX STK / SSTK 1820	5858	X					1.0			D	S	4	X	*	5857	STK STAN I	X	
	STKI	4VX STK (DASH 3) / STK 1821	5859	X							1.3	D	A	4		*	5858	STK STAN I	X	
5800 STKI SKILL TOTAL (PILOT)						1	0.5	1	1.0	1	1.3									
5800 STKI SKILL TOTAL (WSO)						1	0.5	1	1.0	1	1.3									
5800 OCFI	AOCFI	OCF IUT INDOC	5860	P			1.0						G			*	5848	OCF STAN I		
	OCFI	OCF INTRO	5861	P						1.0	D	A	1		*	5860	OCF STAN I	X		
	OCFI	OCF CHECK	5862	P						1.0	D	A	1		*	5861	OCF STAN I	X		
5800 OCFI SKILL TOTAL (PILOT)						1	1.0	0	0.0	2	2.0									
5800 FTNI	AFTNI	FTN IUT INDOC	5863	X			0.5						G			*	5813	FTN STAN I		
	AFTNI	OBSERVE XC PLANNING LAB / LFTN 0911	5864	X			1.0						G			*	5863	FTN STAN I		
5800 FTNI SKILL TOTAL (PILOT)						2	1.5	0	0.0	0	0.0									
5800 FTNI SKILL TOTAL (WSO)						2	1.5	0	0.0	0	0.0									
5800 FRSI TOTAL (PILOT)						33	35.3	11	11.5	19	23.2									
5800 FRSI TOTAL (WSO)						24	25.5	8	8.5	8	10.7									

VMFAT F/A-18 A/C/D FRS IUT T&R MATRIX																				
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN		ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	INSTRUCTOR	EVAL	EVENT CONV
				B	R	#	TIME	#	TIME	#	TIME									
5800 CI	ACI	CI INDOC	5870	X			1.0						G			*	5801	CI STAN I		
	SFAMCI	FAM CI PERFORM	5871	X					1.0			D	S	1		*	5870	CI STAN I	X	
	AFAMCI	FAM CI OBSERVE	5872	X			1.0						G			*	5871	CI STAN I		
	AFAMCI	FAM CI INSTRUCT	5873	X			1.0						G			*	5872	CI STAN I	X	
	SAWICI	AWI CI PERFORM	5874	X					1.0			D	S	1		*	5873	CI STAN I	X	
	AAWICI	AWI CI OBSERVE	5875	X			1.0						G			*	5874	CI STAN I		
	AAWICI	AWI CI INSTRUCT	5876	X			1.0						G			*	5875	CI STAN I	X	
	SASCI	AS CI PERFORM	5877	X					1.0			D	S	2	X	*	5876	CI STAN I	X	
	AASCI	AS CI OBSERVE	5878	X			1.0						G			*	5877	CI STAN I		
	AASCI	AS CI INSTRUCT	5879	X			1.0						G			*	5878	CI STAN I	X	
	SLATCI	LAT CI PERFORM	5880	X					1.0			D	S	1		*	5879	CI STAN I	X	
	ALATCI	LAT CI OBSERVE	5881	X			1.0						G			*	5880	CI STAN I		
	ALATCI	LAT CI INSTRUCT	5882	X			1.0						G			*	5881	CI STAN I	X	
	SPGMCI	PGM CI PERFORM	5883	X					1.0			D	S	1		*	5879	CI STAN I	X	
	APGMCI	PGM CI OBSERVE	5884	X			1.0						G			*	5883	CI STAN I		
	APGMCI	PGM CI INSTRUCT	5885	X			1.0						G			*	5884	CI STAN I	X	
	SCASCI	CAS CI PERFORM	5886	X					1.0			D	S	2	X	*	5885	CI STAN I	X	
	ACASCI	CAS CI OBSERVE	5887	X			1.0						G			*	5886	CI STAN I		
	ACASCI	CAS CI INSTRUCT	5888	X			1.0						G			*	5887	CI STAN I	X	
	SAACI	AA CI PERFORM	5889	X					1.0			D	S	2	X	*	5873	CI STAN I	X	
	AAACI	AA CI OBSERVE	5890	X			1.0						G			*	5889	CI STAN I		
	AAACI	AA CI INSTRUCT	5891	X			1.0						G			*	5890	CI STAN I	X	
	SAADCI	AAD CI PERFORM	5892	X					1.0			D	S	4	X	*	5891	CI STAN I	X	
	AAADCI	AAD CI OBSERVE	5893	X			1.0						G			*	5892	CI STAN I		
	AAADCI	AAD CI INSTRUCT	5894	X			1.0						G			*	5893	CI STAN I	X	
	ASTKCI	STK CI OBSERVE	5895	X			1.0						G			*	5885,5894	CI STAN I		
	ASTKCI	STK CI INSTRUCT	5896	X			1.0						G			*	5895	CI STAN I	X	
	5800 CI SKILL TOTAL						19	19.0	8	8.0	0	0.0								

VMFAT F/A-18 A/C/D FRS RQD TRACKING CODE MATRIX																						
	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND		SIM		FLIGHT		COND	TYPE	# A/C or SIM	NETWORK	REFLY	PREREQUISITE	INSTRUCTOR	EVAL	EVENT CONV
				B	R	MR	SS	#	TIME	#	TIME	#	TIME									
SKILL	RQD	FRS ROLL AND GO	6120	X	X	X	X						0.1	D	A	1		*				
	RQD	FRS STANDBY GCA	6121	X	X	X	X						0.1	(N)	A	1		*				
	RQD	FRS SECT APPROACH TO MISSED (WING)	6122	X	X								0.1	D	A	2		*				
	RQD	FRS SECT APPROACH TO T&G (WING)	6123	X									0.1	D	A	2		*				
	RQD	FRS SECT OVERHEAD BREAK	6124	X	X								0.1	D	A	2		*				
	RQD	FRS DIV OVERHEAD BREAK	6125	X									0.1	D	A	3+		*				
	RQD	FRS SECT APPROACH TO MISSED (LEAD)	6126	X									0.1	D	A	2		*				
	RQD	FRS SECT GCA TO MISSED (LEAD)	6127	X									0.1	D	A	2		*				
	RQD	FRS RADAR TRAIL DEPARTURE (WING)	6128	X									0.1	(N)	A	2+		*				
	RQD	FRS SECT TAKEOFF	6129	X									0.1	D	A	2		*				
RQD	FRS SECT LANDING	6130	X									0.1	D	A	2		*					
6000 FRS RQD SKILL TOTAL								0	0.0	0	0.0	11	1.1									

2.24 FA-18A/C/D REPLACEMENT AIRCREW RANGE AND ORDNANCE MATRIX

VMFA F/A-18 A/C/D FRS REPLACEMENT AIRCREW RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
1000 FAM	FAM	DAY AEROBATICS	1014		MOA	
	FAM	PROFICIENCY CHECK / SFS	1018		MOA	
	FAM	FAM SOLO	1019		MOA	
1100 FRM	FRM	DAY SECTION FORMATION / SFS	1101		MOA	
	FRM	DAY DIVISION FORMATION	1102		MOA	
	FRM	DAY DIVISION TAC FORMATION	1103		MOA	
1200 AWI	AWI	FQ INT AND STERN CONVERSION I	1207	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
	AWI	FQ INT AND STERN CONVERSION II	1208	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
	AWI	TRANSITION PHASE CHECK	1209	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
1300 AS	AS	MED ANGLE DIVE DELIV / SFS	1305	12 Mk 76, 20 Chaff, 40 Flare	RSTD, RKD RNG, LT INERT, EXP	
	AS	MED ANGLE DIVE DELIV	1306	12 Mk 76, 20 Chaff, 40 Flare	RSTD, RKD RNG, LT INERT, EXP	Low Safe
	AS	LOW ANGLE DIVE / STRAFE	1307	12 Mk 76, 250 20-mm, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	Low Safe
	AS	LIVE ORDNANCE / STRAFE	1308	2+ Mk 82/83, 250 20-mm, 20 Chaff, 40 Flare	RSTD, HE, STRAFE	Low Safe
	AS	LOW ANGLE POP ATTACKS / BUNT STRAFE / SFS	1311	6 Mk 76, 250 20mm, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	
	AS	SECTION POP ATTACKS	1312	6 Mk 76, 250 20mm, 20 Chaff, 40 Flare	RSTD, RKD RNG, STRAFE, LT INERT, EXP	Low Safe
	AS	SENSOR ATTACKS / LGB	1316	TGP, 2+ LGTR, 20 Chaff, 40 Flare	RSTD, TGT, LSR, LT INERT, EXP	
	AS	JDAM / SACT	1317	Sim JDAM, TCTS Pod, 20 Chaff, 40 Flare	RSTD, TGT, LSR, EW, EXP	
	AS	LJDAM EMPLOYMENT	1318	TGP, Sim LJDAM/DMLGB, 20 Chaff, 40 Flare	RSTD, TGT, LSR, EXP	
AS	PGM STK / SACT	1319	TGP, 2+ LGTR or Sim JDAM, TCTS pod, 20 Chaff, 40 Flare	RSTD, TGT, LSR, EW, EXP		
1340 CAS	CAS	CAS INTRO / SFS	1343	4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	FAC(A) or JTAC
	CAS	MED / LOW THREAT CAS	1344	4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	FAC(A) or JTAC
	CAS	HIGH THREAT CAS	1345	4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	FAC(A) or JTAC
	CAS	SECTION CAS	1346	4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	FAC(A) or JTAC
	CAS	URBAN CAS	1349	TGP, Sim LJDAM, Sim LGB	URBN TRG, JCAS	FAC(A) or JTAC
1350 SCAR	AR	INTRO TO AR	1351	4 BDU-45 or 6 Mk 76, 20 Chaff, 40 Flare	RSTD, TGT, EXP	
1360 FAC(A)	FAC(A)	FAC(A) MED THREAT	1362	TGP, 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	CAS Element
	FAC(A)	FAC(A) LOW THREAT	1363	TGP, 6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	CAS Element
1400 LAT	LAT	LOW LEVEL NAVIGATION	1402		MTR	
	LAT	LAT INTRO / SFS	1406		LAT	
	LAT	LAT	1407		LAT	
	LAT	LAT SECTION MANEUVERING	1408		LAT	
1500 NS	FRM	NIGHT SECTION FORMATION	1503		MOA	
	AWI	NIGHT FQ INTERCEPT AND STERN CONVERSION	1504	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
	NSF	NVG FAM/AWI	1506	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
	NSF	NVG DIVE DELIVERIES	1507	Sim Mk 82	RSTD, TGT	
1600 AAR	AAR	AERIAL REFUELING	1601		AAR	1 TANKER
	AAR	NIGHT AERIAL REFUELING	1602		AAR	1 TANKER

VMFA F/A-18 A/C/D FRS REPLACEMENT AIRCREW RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
1700 AA	AA	1V1 L&D INTERCEPTS	1706	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
	AA	2VX L&D INTERCEPTS I / SFS	1707	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, One or more (dissimilar) adversaries
	AA	2VX L&D INTERCEPTS II	1708	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, One or more (dissimilar) adversaries
	AA	2VX MANEUVERING TARGETS I	1711	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, One or more (dissimilar) adversaries
	AA	2VX MANEUVERING TARGETS II	1712	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, One or more (dissimilar) adversaries
	AA	2VX L&D FLOW DESIRED	1716	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AA	2VX L&D FLOW REQUIRED	1717	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
1720 BFM/OCF	OCF	OCF/DEPARTURE TRAINING	1721		AA	
	BFM	ADVANCED HANDLING CHARACTERISTICS	1722		AA	
	BFM	PERCH BFM FUNDAMENTALS	1723	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	OFFENSIVE PERCH BFM / SFS	1724	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	OFFENSIVE PERCH BFM	1725	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	DEFENSIVE PERCH BFM / SFS	1726	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	DEFENSIVE PERCH BFM	1727	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	PERCH BFM COMBO	1728	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	HIGH ASPECT BFM / SFS	1729	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	HIGH ASPECT BFM	1730	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFM	2V1 SEM VISUAL SETS	1732	CATM-9, TCTS Pod, 20 Chaff, 40 Flare	AA, EXP, TCTS	One (dissimilar) adversary
BFM	VID / TAP-THE-CAP	1734	CATM-9, TCTS Pod, 20 Chaff, 40 Flare	AA, EXP, MACH 1+, TCTS	One (dissimilar) adversary	
1800 AAD	AAD	2VX L&L	1803	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AAD	2VX OR 4VX DCA	1806	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AAD	4VX DCA I	1807	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AAD	4VX DCA II	1808	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AAD	4VX DCA III	1809	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Three or more (dissimilar) adversaries
1820 STK	STK	2VX OR 4VX STRIKE	1821	Sim JDAM/LGB, CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
5800 TSNI	FAMI	INTRO REAR SEAT FAM	5810		MOA	
	FRMI	FRM IUT (DASH 3) / FRM 1102 OR 1103	5811		MOA	
5800 ASI	ASI	DIVE DELIVERIES IUT (DASH 3) / AS 1305 OR 1306	5816	12 Mk 76, 20 Chaff, 40 Flare	RSTD, RKD RNG, LT INERT, EXP	
	ASI	LEAD SECT POP ATTKS / AS 1312	5818	6 Mk 76, 250 20-mm, 20 Chaff, 40 Flare	RSTD, RKD RNG, LT INERT, EXP	
5800 CASI	CASI	LEAD CAS INTRO / SFS / CAS 1343	5823	4 BDU-45 OR 6 MK 76, 20 Chaff, 40 Flare	JCAS, EXP	FAC(A) or JTAC
5800 FFAC(A)I	FFAC(A)I	FAC(A) CHECK	5828	6 Mk 76, 20 Chaff, 40 Flare	JCAS, EXP	CAS Element
5800 FLATI	FLATI	REAR SEAT LAT INTRO / SFS / LAT 1406	5831		LAT	
	FLATI	LEAD LAT SECT MAN / LAT 1408	5832		LAT	
5800 NSFI	NSFI	BRIEF AND OBSERVE NVG FAM / AWI / NSF 1506	5836	CATM-9, 40 Chaff, 20 Flare	AA, EXP, MACH 1+	
5800 AARI	AARI	REAR SEAT AAR INTRO (LEAD) / AAR 1601 or 1602	5837		AAR	1 TANKER
5800 AAI	AAAI	2VX L&D FLOW DESIRED REAR SEAT INTRO / AA 1716	5841	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
5800 BFMI	BFMI	PERCH BFM	5846	CATM-9, 20 Chaff, 40 Flare	AA, EXP	
	BFMI	PERCH BFM REAR SEAT INTRO (LEAD FOR ANY CAT I PERCH BFM)	5847	CATM-9, 20 Chaff, 40 Flare	AA, EXP	

VMFA F/A-18 A/C/D FRS REPLACEMENT AIRCREW RANGE AND ORDNANCE MATRIX						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ORDNANCE	RANGE	EXTERNAL SYLLABUS SUPPORT
	BFMI	SEM	5848	CATM-9, 20 Chaff, 40 Flare	AA, EXP	One (dissimilar) adversary
5800 AADI	AADI	4VX DCA REAR SEAT INTRO (LEAD FOR ANY CAT I 4VX DCA) / AAD 1806-1809	5855	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
	AADI	4VX DCA (DASH 3 FOR ANY CAT I 4VX DCA) / AAD 1806-1809	5856	CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
5800 STKI	STKI	4VX STK (DASH 3) / STK 1821	5859	Sim JDAM/LGB, CATM-9, TCTS Pod, 40 Chaff, 20 Flare	AA, EXP, MACH 1+, TCTS	AIC, RTO, Two or more (dissimilar) adversaries
5800 OCFI	OCFI	OCF INTRO	5861		AA	
	OCFI	OCF CHECK	5862		AA	