

PUI shall utilize at least two (2) 5-Line CAS attack briefs.

Prerequisites. ACAD-3041, 3042, DESG-6398

Ordnance. (7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000)  
7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with thermally  
significant targets, if available

External Syllabus Support. 2 RW CAS aircraft with ordnance and ground  
maneuver unit with TACP

Crew. FAC(A)I/PUI/CC/AG

FACA-3402 1.5 365 R,M D A/S\*-TEN+ 1 UH-1Y & 1 H-1

Goal. OS - Introduce control of FW aircraft.

Requirements

Discuss

FW CAS aircraft ordnance capabilities, limitations and employment  
Marine and Joint UAS capabilities, limitations and employment  
Effects of weather, terrain and threat on FW CAS assets and RW  
FAC(A)  
Types of Terminal Attack Control, Bomb on Coordinate (BOC) and  
Bomb on Target (BOT) methods of attack and their application to  
FW CAS assets  
Airspace Control Order (ACO), Air Tasking Order (ATO) and their  
impact on CAS/FAC(A) planning  
LASER guided, sensor guided, coordinate dependant and non-  
precision weapons deliveries  
Visual and sensor target marking  
SEAD in support of FW CAS attacks  
Target location procedures in support of CAS  
FAC(A) coordination within the flight and intracockpit  
Task shedding/sharing in the FAC(A) environment

Introduce

Integration of FW CAS assets  
FW lase for Hellfire setup and execution (if available)  
Objective area mechanics  
Communication and control procedures  
LASER designation for LST/LGB (if available)

Performance Standards

PUI shall brief a FAC(A) game plan.  
PUI shall demonstrate a basic knowledge of FW CAS aircraft planning,  
preparation and execution.  
PUI shall conduct a minimum of four (4) FW Type 1 controls, with  
emphasis on utilization of forward firing or unguided "free-  
fall" ordnance.  
PUI shall utilize a minimum of two (2) 9-Line CAS attack briefs.

Prerequisites. ACAD-3041, ACAD-3042, DESG-6398

Ordnance. (7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000)  
7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range

External Syllabus Support. 2 FW CAS aircraft with ordnance, prefer forward firing or unguided free-fall, ground maneuver unit with TACP

Crew. FAC(A)I/PUI/CC/AG

FACA-3403 1.5 365 R,M NS A 1 UH-1Y & 1 H-1

Goal. OS - Introduce control of FW aircraft at night.

Requirements

Discuss

FW CAS aircraft sensor capabilities, limitations and employment  
Effects of weather, terrain and threat at night to FW CAS assets and RW FAC(A)  
Types of Terminal Attack Control, Bomb on Coordinate (BOC) and Bomb on Target (BOT) methods of attack and their application to FW CAS assets  
LASER guided, sensor guided, coordinate dependant and non-precision weapons deliveries  
Visual and sensor target marking  
Ground and aviation delivered illumination in support of CAS  
Urban CAS considerations  
AC-130 integration and Call For Fire  
SEAD in support of FW CAS attacks  
Target location procedures in support of CAS  
Night FAC(A) coordination within flight and intracockpit

Introduce

RW lase for FW ordnance

Review

FW aircraft ordnance capabilities, limitations and employment  
Marine and Joint UAS capabilities, limitations and employment  
FAC(A) crew coordination  
Task shedding/sharing in the FAC(A) environment  
Integration of FW CAS assets  
Objective area mechanics  
Communication and control procedures

Performance Standards

PUI shall brief a FAC(A) gameplan.  
PUI shall demonstrate a basic knowledge of FW CAS aircraft planning, preparation, execution and night considerations.  
PUI shall conduct a minimum of four (4) FW controls, with emphasis on utilization of LASER guided, sensor guided or coordinate dependant ordnance. Of those at least two (2) should be FW Type 1 and at least two (2) should be FW Type 2 controls, one (1) of which should be BOC.  
PUI shall utilize a minimum of two (2) 9-Line CAS attack briefs.  
PUI shall utilize onboard systems to generate coordinates for a coordinate dependant weapon delivery, either live or simulated.

Prerequisites. ACAD-3041, ACAD-3042, DESG 6398

Ordnance. (7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with thermally significant targets, if available

External Syllabus Support. 2 FW CAS aircraft with LASER guided, sensor guided or coordinate dependant ordnance and ground maneuver unit with TACP.

Crew. FAC(A)I/PUI/CC/AG

FACA-3404 1.5 365 R,M (NS) A 1 UH-1Y & 1 H-1

Goal. OS - Review FAC(A) and the use of supporting arms and their integration in support of the GCE SOM.

Requirements

Discuss

Fire support planning documents (Appendix 19, target list worksheet, scheduling worksheet)  
Target acquisition via aided or unaided vision or remote observer  
Integration of air and surface fires in support of the ground scheme of maneuver  
Weaponing process for RW, FW and UAS ordnance and weapon to target match  
Integration of Digital systems (VMF, Link-16, etc...)  
MISREP and BDA assessment

Review

Discussion items from previous FAC(A) flights  
Integration of multiple CAS assets (FW, RW, UAS, IDF)  
Objective area mechanics  
Communication and control procedures

Performance Standards

PUI shall brief a FAC(A) game plan that supports the GCE SOM.  
PUI shall demonstrate sound knowledge of FW and RW CAS aircraft planning, preparation, and execution.  
PUI shall integrate and provide FAC(A) for multiple assets in support of the GCE SOM during a dynamic scenario.  
PUI shall conduct a minimum of (4) FW controls, of which at least two (2) are FW Type 1 controls and at least two (2) are FW Type 2 controls, one (1) of which should also be BOC.  
If utilizing RW CAS, PUI shall conduct a minimum of four (4) RW controls, either Type 1 or 2, integrated with FW attacks.  
If utilizing IDF, PUI shall conduct a minimum of two (2) calls for fire integrated with CAS attacks. At least one (1) shall be SEAD.  
PUI shall utilize a minimum of two (2) 9-Line CAS attack briefs.  
PUI will coordinate SEAD in support of FW target engagement.

Prerequisites. FACA-3400 through 3402 (FACA-3403~NS)

Ordnance. (7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with thermally significant targets, if available

External Syllabus Support. 2 FW CAS aircraft with ordnance, 1 indirect fire support asset or 1 section of RW aircraft with ordnance (separate from flight), ground maneuver unit with TACP

Crew. FAC(A)I/PUI/CC/AG



External Syllabus Support. Actual or simulated FARP

Crew. BIP/PUI/CC

EXP-3601 0.0 180 R,M NS A/S-TEN 1 UH-1Y

Goal. OS - Conduct NVD Expeditionary Shore-based Site Operations (FARP).

Requirements

Discuss

Night landing point markings  
Aircraft lighting  
FARP types  
FARP equipment  
FARP procedures and personnel  
Movement within the FARP  
Ordnance procedures  
FARP emergency procedures  
MMT communications/nets  
FARP OIC communications/nets  
ADGR platforms, equipment and capabilities  
Pax and MACO procedures

Demonstrate/Introduce

Night FARP operations

Review

Landing procedures to an unprepared surface

Performance Standards

PUI shall conduct a FARP brief.  
PUI shall conduct a minimum of one (1) landing and one (1) takeoff.  
PUI should conduct refueling.  
PUI shall conduct rendezvous and join-up procedures.

Prerequisites. ACAD-3045, ACPM-8310, ACPM-8311, TERF-2101 (ANSQ-2701~LLL)

External Syllabus Support. Actual or simulated FARP

Crew. NSI/PUI/CC/AO

EXP-3602 0.0 \* D A/S\*-TEN 1 UH-1Y

Goal. OS - Conduct Reduced Visibility Landings (RVL)

Requirements

Discuss

Reduced visibility landing profile and CRM  
Use of HMSD & hover aid graphic symbology during approach, landing and takeoff  
Recommended waveoff parameters and use of HMSD  
Landing zone selection criteria

Demonstrate/Introduce  
Reduced visibility landings  
Waveoffs

Review  
Landings to an unimproved landing site

Performance Standards  
PUI shall conduct a minimum of (1) RVL approach.  
PUI shall conduct a minimum of (1) reduced visibility takeoff.  
PUI shall conduct a minimum of (1) waveoff.

Prerequisites. TERF-2100

Crew. BIP/PUI/CC

EXP-3603 0.0 120 R,SC,M NS A/S\*-TEN 1 UH-1Y

Goal. OS - Conduct NVD Reduced Visibility Landings (RVL).

Requirements

Discuss  
Reduced visibility landing profile and CRM  
Use of HMSD and hover aid graphic symbology during approach,  
landing and takeoff  
Recommended waveoff parameters and use of HMSD  
Landing zone selection criteria  
Aircraft lighting use  
Use of searchlight

Demonstrate/Introduce  
NVD Reduced visibility landings  
Waveoffs

Review  
Landings to an unimproved landing site.

Performance Standards  
PUI shall conduct a minimum of (1) RVL approach.  
PUI shall conduct a minimum of (1) reduced visibility takeoff.  
PUI shall conduct a minimum of (1) waveoff.

Prerequisites. TERF-2101 (ANSQ-2701~LLL)

Crew. NSI/PUI/CC/AO

2.16 CORE PLUS/MISSION PLUS ACADEMIC PHASE (4000)

2.16.1 Purpose. To develop a Core Plus Skill complete pilot. These academics facilitate understanding of higher threat operations in the UH-1Y and MAGTF/Joint level functions to ensure individuals possess the requisite knowledge to execute large scale integrated mission events, unique mission tasking, events having a low probability of execution in combat, are theater specific, and/or are relatively high-threat events.

2.16.2 General. These academics are intended to be an integrated series of academic lectures, readings and practical application contained within each phase of training. The lectures, readings and chalk-talks are contained in

the MAWTS-1 UH-1 Course Catalog. The academic courseware is a requirement. At the completion of each ACAD event, the appropriate training code shall be logged in M-SHARP by the individual pilot, contract instructor or squadron operations personnel, as appropriate. The codes listed below associated with these classes may NOT be the most up to date as the current UH-1 Course Catalog is the master document for stage academic requirements.

2.16.3 Core Plus/Mission Plus Academic Phase events are listed below.

CORE PLUS/MISSION PLUS ACADEMIC PHASE	
TRAINING CODES	COURSEWARE
<b>GENERAL REQUIREMENTS</b>	
ACAD-4001	(S) Airborne Early Warning
<b>ASPT</b>	
ACAD-4010	Review UH-1 Assault Support Planning
ACAD-4011	Review UH-1 Assault Support Execution
ACAD-4012	Mountain Area Operations
<b>ESC</b>	
No Lectures	
<b>CAS</b>	
ACAD-4021	Review Raid Planning
ACAD-4022	Review Problem Framing
ACAD-4023	Review (S) Urban CAS
ACAD-4024	Review Objective Area Planning
ACAD-4025	Review ROE Planning
ACAD-4026	Review (S) RW OAS
<b>SCAR</b>	
ACAD-4027	Review HMLA AR & SCAR TTPs
<b>DACM</b>	
ACAD-4030	UH-1 Air-to-Air Considerations
ACAD-4031	DACM Training
ACAD-4032	DACM Tactical Gameplan
ACAD-4033	(S) RW Threat to the MAGTF
ACAD-4034	(S) Attack Helo Threat to RW A/C
ACAD-4035	(S) FW Threat to the MAGTF
ACAD-4036	(S) FW Threat to RW A/C
<b>CBRN</b>	
No Lectures	
<b>TAC (A)</b>	
ACAD-4050	TACC
ACAD-4051	TAC (A) TTPs
<b>CQ</b>	
No Lectures	
*Indicates classes that should be presented to all pilots annually.	

2.17 CORE PLUS/MISSION PLUS SKILL PHASE (4000)

2.17.1 Purpose. To certify the PUI in large scale integrated mission events having unique mission tasking, a low probability of execution in combat, are theater specific, and/or are relatively high-threat events.

2.17.2 General. Upon completion of each individual stage, the pilot will be considered Core Plus/Mission Plus proficient in that stage.

Completion of DACM-4301, DACM-4302 and DACM-4303 meets the requirements for the PUI to be RWDACM qualified. At the discretion of the squadron commanding officer a letter assigning the PUI as RWDACM qualified shall be placed in the NATOPS jacket and APR.

Completion of DACM-4304 and DACM-4305 meets the requirements for the PUI to be FWDACM qualified. At the discretion of the squadron commanding

officer a letter assigning the PUI as FWDACM qualified shall be placed in the NATOPS jacket and APR.

Completion of the TAC(A) stage meets the requirements for the PUI to be TAC(A) qualified. At the discretion of the squadron commanding officer a letter assigning the PUI as TAC(A) qualified shall be placed in the NATOPS jacket and APR.

Completion of SCBRN-4400 meets the requirements for the PUI to be CBRN qualified. At the discretion of the squadron commanding officer a letter assigning the PUI as CBRN qualified shall be placed in the NATOPS jacket and APR.

Completion of the CQ stage meets the requirements for the PUI to be CQ qualified. At the discretion of the squadron commanding officer a letter assigning the PUI as CQ qualified shall be placed in the NATOPS jacket and APR.

2.17.2.1 Stages. The following stages are included in the Core Plus/Mission Plus Phase of training.

CORE PLUS/MISSION PLUS SKILLS PHASE	
PAR NO.	STAGE NAME
2.17.3	Assault Support (ASPT)
2.17.4	Escort (ESC)
2.17.5	Close Air Support (CAS)
2.17.6	Strike Coordination and Reconnaissance (SCAR)
2.17.7	Rotary Wing Defensive Air Combat Maneuvering (RWDACM)
2.17.8	Fixed Wing Defensive Air Combat Maneuvering (FWDACM)
2.17.9	Chemical, Biological, Radiological and Nuclear Warfare (CBRN)
2.17.10	Tactical Air Coordinator (Airborne) TAC(A)
2.17.11	Carrier Qualified (CQ)

2.17.2.1 Ordnance Delivery. At the completion of this phase, the PUI will have demonstrated increased accuracy during ordnance delivery and proper use of the NTIS under medium to high threat conditions with mixed ordnance loads. For the Core Plus/Mission Plus Skills Phase, the PUI shall meet the ordnance metrics outlined for the Mission Skill Phase (See Paragraph 2.15.4.). VTR debrief should be used to the maximum extent possible. Emphasis will be on CRM and Tactical Risk Management (TRM) while utilizing the ordnance systems.

2.17.2.2 Navigational Accuracy. At the completion of this phase, the PUI will have demonstrated increased navigational accuracy and timeliness during assault support operations, under medium to high threat conditions. For the Core Plus Skills Phase, the PUI shall meet the ordnance metrics outlined for the Mission Skill Phase. See Paragraph 2.15.5. IP shall use MPS or aircraft systems to assess landing point accuracy.

2.17.3 Assault Support (ASPT)

2.17.3.1 Purpose. To develop the ability to perform specialized assault support missions.

2.17.3.2 General. Upon completion of each core plus event, the pilot will be considered capable of performing that particular mission.



Aircraft should be configured with appropriate HIE equipment, an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 Course Catalog.

ASPT-4100 1.0 \* (NS) A 1 UH-1Y

Goal. OS - Introduce techniques for paradrop operations.

Requirements

Discuss

Aircraft rigging specific to paradrops  
Insertion techniques  
Aircrew coordination  
Emergencies

Performance Standards

Perform paradrop maneuvers IAW the UH-1Y NATIP/NTTP and appropriate HIE Manual.

PUI shall conduct paradrops with at least two jumpers

Prerequisites. ASPT-2400 (ASPT-2403~NS, ANSQ-2703~LLL)

Range Requirement. Drop Zone or authorized paraops area

External Syllabus Support. Jump Master and two jumpers (Jump Master may be one of the jumpers)

Crew. BIP(NSI)/PUI/CC/(AO)

ASPT-4101 1.5 \* D A 1 UH-1Y

Goal. OS - Introduce techniques for water insertion.

Requirements

Discuss

Aircraft rigging specific to water insertion  
Insertion and extraction techniques  
Aircrew coordination  
Emergencies

Performance Standards

Perform Tactical maneuvers IAW the UH-1Y NATIP/NTTP and appropriate HIE Manual.

PUI shall insert at least two swimmers.

Prerequisites. TERF-2100, ASPT-2400

Range Requirement. Water drop zone or authorized helocast area

External Syllabus Support. Helocast Master and two swimmers (Helocast Master may be one of the swimmers)

Crew. BIP/PUI/CC

ASPT-4102 1.5 365 R,M (NS) A 1 UH-1Y

Goal. OS - Introduce techniques for insertion/extraction using the Special Personnel Insertion/Extraction (SPIE) rig or Jacob's Ladder

Requirements

Discuss

Aircraft rigging specific to SPIE  
Insertion and extraction techniques  
Aircrew coordination  
Emergencies

Introduce

SPIE flight profiles

Performance Standards

Perform Tactical maneuvers IAW UH-1Y NATIP/NTTP and appropriate HIE Manual.  
Complete three evolutions consisting of an extract, transition to flight, and insert.

Prerequisite. ASPT-2400

Range Requirement. Drop zone/landing zone or authorized SPIE area

External Syllabus Support. HRST Master and two ropers

Crew. BIP(NSI)/PUI/CC(AO)

SASPT-4103 1.5 \* D FFS/FTD S-TEN/A 1 UH-1Y

Goal. OS - Introduce Mountain Area Training

Requirements

Discuss

High altitude operations  
Loss of tail rotor effectiveness  
Turbulence  
Orographic lifting  
Downdrafts

Performance Standards

Perform 5 mountain area landings in mountainous terrain above 5,000ft DA or in mountainous terrain with simulated representative power limitations.  
Perform 2 simulated fastrope or rappel approaches in a mountain environment.

Prerequisite. ASPT-2400

Crew. TSI/PUI (TERFI/PUI/CC)

ASPT-4104 2.0 365 R,M (NS) A 1 UH-1Y

Goal. OS - Review Mountain Area Training.

Requirements

Discuss

High altitude operations  
Loss of tail rotor effectiveness  
Turbulence  
Orographic lifting  
Downdrafts

Performance Standards

Perform 5 mountain area landings in mountainous terrain above 5,000ft DA or in mountainous terrain with simulated representative power limitations.  
Perform 2 simulated fastrope or rappel approaches in a mountain environment.

Prerequisite. TERF-2100, SASPT-4103, (TERF-2101~NS, ASPT-2403~NS, ANSQ-2701~LLL)

Crew. BIP(NSI)/PUI/CC/(AO)

SASPT-4105 1.5 365 R,SC,M D FFS/FTD S-TEN/A 1 UH-1Y

Goal. OS - Introduce techniques for SAR/over land techniques and hoist operations to include emergency hoist procedures.

Requirements

Discuss

- SAR patterns
- Hoist recovery techniques
- Engine failures
- Tail rotor emergencies
- Settling with power
- Aircraft rigging
- Hoist capabilities
- Aircrew coordination
- HST procedures and operation
- Ground crew brief
- Emergencies
- Load jettison

Demonstrate/Introduce

Proper procedures and techniques for hoist pickup

Performance Standards

- Conduct flight and hoist procedures IAW the UH-1Y NATIP/NTTP, and local directives.
- Complete three iterations of hoist procedures (pick-up, hoist, recovery).
- Perform SAR maneuvers IAW UH-1Y NATIP/NTTP and appropriate HIE Manual.

Prerequisites. TERF-2100, ASPT-2400

External Syllabus Support. Appropriate external weight

Crew. BIP/PUI/CC (AO)

ASPT-4107 1.5 \* (NS) A 1 UH-1Y

Goal. OS - Introduce techniques for sniper operations.

Requirements

Discuss

- Sniper operations
- Planning and employment considerations
- A/C rigging
- Profiles
- Sniper briefing considerations/guide
- Communication flow
- Control of fires
- Clearance authority

Fires integration  
Sniper template  
Weapons selection

Demonstrate/Introduce

Sniper Profiles  
Communication  
Aircraft Rigging  
Attack profiles

Review

Actions on contact  
Contingency planning  
Power management planning  
ROE  
Contingencies in urban environment  
GRG usage  
Accountability procedures

Performance Standards

PUI shall conduct mission planning, sniper coordination and utility brief, to include aerial sniper briefing guide.  
PUI shall conduct a minimum of three simulated attacks, each with a different profile.

Prerequisites. ASPT-2400, SWD-2600, (NSQ~NS, ANSQ~LLL)

Range Requirement. Live fire range, if required

External Syllabus Support. Sniper personnel with or without ordnance

Crew. WTO(NSI)/PUI/CC/AO

SASPT-4108 1.5 730 R,M (NS) FFS/FTD S-TEN+/A 2 UH-1Y

Goal. OS - Refine assault support operations in an integrated, high threat environment.

Requirements

Discuss

Mission criteria (Go, No-Go, LZ Criteria)  
Prohibitive interference  
EMCON  
Ingress/Egress profiles for high-threat  
Weapons conditions  
Deception/Feint Planning  
Contingency planning  
Sectors of fire, door gun integration  
Air to air considerations  
EW Aircraft and capabilities

Demonstrate/Introduce

Air assault in a high threat environment  
Route planning in a high threat environment  
EW Capabilities

Review

Primary/alternate LZ selection  
Insertion/extraction methods  
Power management, fuel planning, route selection  
Line of deconfliction  
Waveoff criteria  
Terrain Clutter vs Terrain Masking

Performance Standards

PUI shall plan, brief and lead an assault support flight in a high threat environment with an emphasis on detailed route planning and objective area integration.

Integrate all available supporting assets. Develop and execute a fire support plan that supports the initial and follow on assault wave(s).

Correctly react to 1 or more simulated en route threats to the assault flight IAW ASTACSOP.

PUI will land within +/- 50m from landing point within +/- 30 seconds of L-hour.

Prerequisites. DESG-6498

Ordnance. (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire range with at least one emitter

External Syllabus Support. 2 or more escort assets. EW aircraft (may be simulated)

Crew. WTI/PUI/CC/AO(AG)

2.17.4 Escort (ESC)

2.17.4.1 Purpose. To refine proficiency in escort missions.

2.17.4.2 General. At the completion of this stage, the PUI will have demonstrated the ability to plan brief and integrate multiple assets in the execution of ESC missions under varied environmental and higher threat conditions.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

ESC-4200 1.5 730 R,M (NS) A/S TEN+ FFS/FTD 1 UH-1Y & 1 H-1

Goal. OS - Refine armed escort responsibilities during assault support operations in a medium to high threat environment.

Requirements

Discuss

LZ clearance procedures and communication  
Threat reaction and immediate action procedures  
Capabilities/employment of HELLFIRE during escort  
APKWS switchology and employment techniques

Review

Escort/assault support mission planning  
Escort responsibilities  
Attached/detached/combined escort  
Objective area fires integration  
Objective area flow and communications

Performance Standards

- PUI shall plan, brief and lead an armed escort flight in a medium to high threat environment.
- PUI shall correctly react to one (1) or more simulated enroute threats to the assault flight IAW ASTACSOP.
- PUI shall develop and execute a fire support plan during the initial assault wave.
- PUI shall integrate fire support assets in objective area.
- PUI shall use correct terminology and techniques for LZ clearance and coverage.

Prerequisites. DESG-6498

Ordnance. (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. LASER safe live fire range with thermally significant targets, if available

External Syllabus Support. 2 or more assault support aircraft

Crew. WTI/PUI/CC/AG

2.17.5 Close Air Support (CAS)

2.17.5.1 Purpose. To refine proficiency in Close Air Support missions.

2.17.5.2 General. At the completion of this stage, the PUI will have demonstrated the ability to plan, brief and execute a CAS mission and deliver accurate and timely fires, under varied environmental and higher threat conditions.

Actual fixed wing aircraft, TACP, and indirect fire assets should be incorporated to the maximum extent practical, but in the event that support is not available, the IP can simulate these assets during the conduct of a sortie.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

CAS-4201 1.5 730 R,M (NS) A/S-TEN+ FFS/FTD 1 UH-1Y & 1 H-1

Goal. OS - Conduct CAS in a medium to high threat environment.

Requirements

Discuss

- Aircraft flight profiles
- Weapon selection
- MAGTF EW capabilities and limitations
- RADAR Terrain Mask Analysis
- Preemptive expendables use
- Assault support escort considerations
- SEAD/DEAD employment
- GCE SOM integration
- Fires Synchronization Meeting/Combined Arms Rehearsal

FAC(A) gameplan in a high threat environment

Review

J-LASER terminology  
IR pointer usage  
Friendly marking techniques/procedures  
Identification of friendly/enemy positions  
Objective area timing

Performance Standards

PUI shall plan, brief and lead a CAS mission in a medium to high threat environment.  
PUI shall receive, coordinate and execute a minimum of four (4) CAS missions utilizing 5-line or 9-line attack briefs.  
PUI shall execute a detailed fire support plan with ground force maneuver.  
PUI shall conduct a minimum of two (2) non-permissive RW CAS missions utilizing CAS missions briefs.  
PUI shall conduct all missions utilizing CAS procedures and communication.  
IP shall ensure all attacks adhere to assigned attack brief parameters and restrictions.  
PUI shall achieve the desired effects as stipulated by the terminal controller.  
PUI shall ensure all missions are within 30 seconds of TOT during engagements or fall within the assigned engagement window.  
IP shall validate IDF accuracy and procedures using VTR.

Prerequisites. SL-6498

Ordnance. (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with thermally significant targets, if available

External Syllabus Support. JTAC with appropriate marking devices (if available), suitable urban environment or MOUT facility

Crew. WTI/PUI/CC/AG (TSI+WTI/PUI~SIM)

2.17.6 Strike Coordination and Reconnaissance (SCAR)

2.17.6.1 Purpose. To refine proficiency conduct in Strike Coordination and Reconnaissance missions.

2.17.6.2 General. At the completion of this stage, the PUI will have demonstrated the ability to plan, brief and integrate multiple assets and fires in the execution of AR missions under varied environmental and higher threat conditions.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

SSCAR-4207 1.5 730 R,M (NS) FFS/FTD S-TEN+/A 1 UH-1Y & 1 H-1

Goal. OS - Conduct a Strike Coordination and Reconnaissance (SCAR) mission in a medium to high threat environment.

Requirements

Discuss

Organic MAGTF EW capabilities and limitations  
Suppression of Enemy Air Defense (SEAD)  
Destruction of Enemy Air Defense (DEAD)  
Collateral Damage Estimation (CDE)  
Positive Identification (PID)  
Theater Air Control System (TACS)  
Target Location Error (TLE)  
Target list, High payoff Target Priority List

Review

Targeting process  
Joint Surveillance and Target Attack RADAR System (JSTARS)  
ROE/PID considerations  
JMEMS/JWS  
Weapon to target match  
IFREP/MISREP procedures

Performance Standards

PUI shall plan, brief and lead a SCAR mission in a medium to high threat environment.  
PUI shall properly employ all ASE IAW UH-1 NTRP.  
PUI shall achieve the desired effects (as stipulated by the mission objectives) on at least two (2) known targets with timely, accurate engagements, with minimal exposure time as the SCAR, while using proper weapons to target match.  
IP shall validate, using the VTR, an effective engagement of a point target.  
PUI shall consolidate BDA and pass through appropriate MACCS channels.

Prerequisites. DESG-6498

Ordnance. (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. Live fire LASER safe range

External Syllabus Support. 2 OAS aircraft

Crew. TSI+WTI/PUI (WTI/PUI/CC/AG~AC)

2.17.7 Rotary Wing Defensive Air Combat Maneuvering (RWDACM)

2.17.7.1 Purpose. To demonstrate and introduce RWDACM and to qualify the PUI as RWDACM complete.

2.17.7.2 General. At the completion of this stage, the pilot will be proficient in the conduct of the principles of RWDACM and have a thorough knowledge of weapons employment, aircraft control, and threat tactics of RW adversaries.

Aircraft should be configured with an operable NTIS, operable HMSD, VTR, APR-39, and ALE-47.



Crew Requirements. As listed at the end of each event. All participants must be TERF qualified.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

DACM-4301 1.0 \* SC D A 1 UH-1Y

Goal. OS - Introduce 1 v 1 RWDACM.

Requirements

Discuss

- Energy maneuverability (EM)
- Specific excess power ( $P_s$ )
- EM &  $P_s$  tactical considerations
- High and low yo-yo
- Yo-yo counter tactics
- Weapons employment rules of thumb
- Range estimation techniques
- Line number setups
- DACM training rules
- Control zone maneuvering
- Crew coordination considerations
- Aircraft control
- DACM flight leadership

Introduce

- Aircraft capabilities/limitations
- Adversary aircraft capabilities/limitations
- Weapons envelopes of adversary RW aircraft

Performance Standards

- PUI shall conduct one complete line number sequence (from both friendly and adversary roles).
- PUI shall maintain aircraft control within NATOPS limitations.
- PUI shall execute proper reactions to RW threat attacks.

Prerequisites. TERF, STCT-2201, SREC-2300, SSWD-2600

Ordnance. (30) flares, TCTS pod (as required)

External Syllabus Support. One adversary helicopter and appropriate air-to-air training area

Crew. RW DACMI/PUI/CC/AO

DACM-4302 1.0 \* D A 1 UH-1Y & 1 H-1

Goal. OS - Introduce 2 v 1 helicopter DACM maneuvering.

Requirements

Discuss

- Weapons employment rules of thumb
- Range estimation techniques
- Line number setups and communication
- DACM training rules
- Crew coordination considerations
- Aircraft control characteristics
- DACM Flight leadership considerations
- Section tactics and gameplan
- Roles and responsibilities of free and engaged aircraft
- Control zone maneuvering and the weave

Review

Adversary aircraft capabilities/limitations  
Weapons envelopes of adversary RW aircraft  
Energy maneuverability (EM)  
Specific excess power ( $P_s$ )  
EM &  $P_s$  tactical considerations

Performance Standards

PUI shall conduct one (1) complete line number sequence (from both tactical lead and tactical wingman positions).  
PUI shall maintain aircraft control within NATOPS limitations.  
PUI shall execute proper reactions to RW threat attacks.

Prerequisite. DACM-4301

Ordnance. (30) flares, TCTS pod (as required)

External Syllabus Support. One adversary helicopter and appropriate air-to-air training area

Crew. RW DACMI/PUI/CC/AO

DACM-4303    2.0    485    R,M            D    A            1 UH-1Y & 1 H-1

Goal. OS - Review 1 v 1 and 2 v 1 RWDACM.

Requirements

Discuss

Crew coordination considerations  
Aircraft control characteristics  
DACM flight leadership considerations  
Section tactics and gameplan  
Roles and responsibilities of free and engaged aircraft  
Control zone maneuvering and the weave

Review

Energy maneuverability (EM)  
Specific excess power ( $P_s$ )  
EM &  $P_s$  tactical considerations  
High and low yo-yo  
Yo-yo counter tactics  
Weapons employment rules of thumb  
Range estimation techniques  
Line number setups  
DACM training rules  
Control zone maneuvering  
Crew coordination considerations  
Aircraft control  
DACM flight leadership

Performance Standards

PUI shall conduct one (1) complete line number sequence (from both tactical lead and tactical wingman positions).  
PUI shall maintain aircraft control within NATOPS limitations.  
PUI shall execute proper reactions to RW threat attacks.

Prerequisite. ACAD-3013, 4030 through 4034, DACM-4302

Ordnance. (60) flares and TCTS pod (as required)

External Syllabus Support. One adversary helicopter and appropriate air-to-air training area

Crew. RW DACMI/PUI/CC/AO

2.17.8 Fixed-Wing Defensive Air Combat Tactics (FWDACM)

2.17.8.1 Purpose. To demonstrate and introduce FWDACM and to qualify the PUI as FWDACM complete.

2.17.8.2 General. At the completion of this stage, the PUI will be proficient in the conduct of FWDACM and have a thorough knowledge of weapons employment, aircraft control and threat tactics of FW adversaries.

Aircraft should be configured with an operable NTIS, operable HMSD, VTR, APR-39, and ALE-47.

Crew Requirements. As listed at the end of each event. All participants must be TERF qualified.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

DACM-4304 1.0 \* D A 1 UH-1Y

Goal. OS - Perform 1 v 1 FWDACM maneuvering.

Requirements

Discuss

- FW capabilities/limitations
- Weapon envelopes and tactics of adversary FW aircraft
- Tactical advantages derived from P<sub>s</sub>/EM charts
- FW threat counter-tactics
- FW air-to-air weapons considerations
- Range estimation
- Lead requirements
- RADAR/fire control capabilities
- Intercept terminology
- Visual Combat Air Patrol (VISCAP) considerations
- DACM training rules
- FW DACM line number set-up and execution

Introduce

- FW capabilities/limitations
- Weapons envelopes of adversary FW aircraft
- 1 v 1 maneuvers against a FW aircraft

Performance Standards

- PUI shall conduct a minimum of one (1) line number sequence.
- PUI shall execute proper reactions to FW threat attacks.

Prerequisites. TERF, STCT-2201, SREC-2300, SSWD-2600

Ordnance. (30) flares, TCTS pod (as required)

External Syllabus Support. One FW adversary and appropriate air-to-air training area

Crew. FW DACMI/PUI/CC/AO

DACM-4305 1.0 485 R,M D A 1 UH-1Y & 1 H-1

Goal. OS - Perform 2 v 2 DACM against FW adversaries.

Requirements

Discuss

FW capabilities/limitations  
FW threat counter-tactics  
P<sub>s</sub>/EM of threat/friendly aircraft  
FW DACM training rules  
2 v 2 FW DACM line number set-up

Demonstrate/Introduce

RW section gameplan  
RW v FW weapons employment  
Aircraft/section control  
Section awareness and communication  
DACM flight leadership

Performance Standards

PUI shall conduct a minimum of one (1) line number sequence as lead and wingman.  
PUI shall execute proper reactions to FW threat attacks.

Prerequisite. ACAD-4030 through 4032, 4035, 4036, DACM-4304

Ordnance. (30) flares, TCTS pod (as required)

External Syllabus Support. Two FW adversary and appropriate air-to-air training area

Crew. FW DACMI/PUI/CC/AO

2.17.9 Chemical, Biological, Radiological and Nuclear Warfare (CBRN)

2.17.9.1 Purpose. To introduce the pilot to operations while wearing the aviator's CBR protective mask

2.17.9.2 General. This event is designed to expand the capabilities of the aircrew in CBR operations.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. Review appropriate section of UH-1Y NTRP for information on the aviator's CBR protective mask prior to flight. The pilot will complete protective mask familiarization lecture and aircraft egress with mask.

SCBRN-4400 1.0 \* R,M D/NS FTD/FSS S-TEN/A 1 UH-1Y

Goal. OS - CBR protective mask introduction.

Requirements

Discussion

Advantages & disadvantages of CBR protective mask  
CBR Protective Mask components and operation  
Psychological effects  
Operating in a CBRN environment  
Emergency procedures while using the CBR  
Emergency egress  
MOFP conditions  
NVD considerations  
Battery failure

Demonstrate/Introduce

Wear of the CBR protective mask while conducting FAM maneuvers

Performance Standards

PUI shall perform all maneuvers IAW UH-1Y MDG and NATOPS.

PUI shall complete 5 auto-rotations IAW the UH-1Y MDG and NATOPS.

Prerequisites. (TERF-2100~AC TERF-2101~NS AC, 2701~LLL AC)

Crew. TSI+NSI/PUI (NSI/PUI/CC/AO~AC)

2.17.10 Tactical Air Coordinator Airborne [TAC(A)]

2.17.10.1 Purpose. To introduce and refine TAC(A) procedures.

2.17.10.2 General. At the completion of this stage, the PUI will demonstrate proficiency in the coordination of attack aircraft and multiple terminal controllers. At the completion of this stage, the PUI may be TAC(A) qualified, in writing, by the commanding officer.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. Per the MAWTS-1 Course Catalog.

TACA-4500 2.0 730 R,M (NS) A 1 UH-1Y

Goal. OS - Conduct TAC(A) procedures with multiple terminal controllers.

Requirements

Discuss

TAC(A) procedures  
Delegated Authority from Mission Commander (MC)  
Asset/Weapon-to-target match  
EEI, PIR, CCIR, FFIR  
Airspace management  
MCA vs TAC(A) airspace  
SPEED (Systems Planning Engineering Evaluation Device) analysis  
CRM

Demonstrate/Introduce

TAC(A) procedures  
TACP/CAS asset coordination  
DASC/MACCS coordination

Performance Standards

Perform coordination of attack aircraft and multiple terminal controllers.  
Receive attack briefings from the FAC/FAC(A) and assign appropriate CAS aircraft.  
Be able to accurately copy immediate JTAR, coordinate timely CAS in response to immediate request, and to pass CAS aircraft BDA via the C<sup>3</sup> system.  
Coordinate target mark and control with the FAC/FAC(A).  
Manage assigned airspace and provide command and control system with essential elements of information (EEIs).  
IAW UH-1 NTPP.

Prerequisite. ACAD 4050, ACAD 4051, 6498, FAC(A) qualified

Range Requirement. Range with tactical targets

External Syllabus Support. MACCS (may be simulated), at least two CAS elements and 2 terminal controllers

Crew. TAC(A)I(NSI)/PUI/CC(AO)

#### 2.17.11 Carrier Qualification (CQ)

2.17.11.1 Purpose. To introduce day and night flight operations from a carrier deck or air capable ship.

2.17.11.2 General. IAW applicable directives, PUI will emphasize proper communication procedures, patterns, and aviation operations in the shipboard environment. Refer to appropriate NATOPS and appropriate shipboard NATOPS Manuals for carrier operations. PUI shall complete the FCLP stage prior to commencing this stage.

Initial Night Systems Carrier Qualification training shall be accomplished under High Light Level conditions. Requalification and proficiency training may be accomplished under any light level condition. PUI shall conduct at least one (1) precision and one (1) non-precision approach to an air capable ship before stage completion.

Once complete each stage the pilot may be Day CQ, or Night CQ or NVD CQ (as appropriate) in writing at the discretion of the commanding officer.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

CQ-4600      1.0    365    R                    D                    A                    1 UH-1Y

Goal. OS - Conduct day shipboard landing qualification.

#### Requirements

##### Discuss

Day shipboard patterns  
Sight picture and landings to a ship's deck

##### Demonstrate/Introduce

Day shipboard operations  
Lost communication procedure in a shipboard environment

##### Review

Types of air capable ships  
Shipboard specific crew coordination  
Deck crewman vest colors  
Helicopter director visual signals  
Emergency and ditching procedures  
Wind limitation and engage/disengage charts  
Shipboard terminology  
Different case departures and arrivals  
Rotor brake start procedures  
HERO conditions and ordnance operations  
Shipboard airspace

Performance Standards

- PUI should execute a rotor brake start, if able.
- PUI shall conduct a minimum of five (5) day shipboard landings per the UH-1Y NATOPS and shipboard NATOPS manuals.
- PUI should conduct one (1) precision and one (1) non-precision approach, if available.
- PUI should conduct shipboard refueling, if available.

Prerequisites. FCLP-2501

External Syllabus Support. Landing platform afloat

Crew. BIP/PUI/CC

CQ-4601      1.0    365    R,M                    NS                    A                    1 UH-1Y

Goal. OS - Conduct NVD shipboard landing qualification.

Requirements

Discuss

- Night NVD pattern
- Sight picture and night landings to a ship's deck

Demonstrate/Introduce

- NVD shipboard operations

Review

- Instrument scan considerations
- Night shipboard specific crew coordination
- Shipboard lighting considerations
- NVD failures and emergency procedures
- Spatial disorientation and vertigo
- Shipboard instrument procedures
- Shipboard communication procedures
- Shipboard helicopter director visual signals

Performance Standards

- PUI shall conduct a minimum of five (5) NVD shipboard landings per the UH-1Y NATOPS and shipboard NATOPS manuals.
- PUI should conduct one lost comm. marshalling procedure, if available
- PUI should conduct one (1) precision and one (1) non-precision approach, if available.
- PUI should conduct shipboard refueling, if available.

Prerequisites. NSQ, FCLP-2502, CQ-4600

External Syllabus Support. Landing platform afloat

Crew. NSI/PUI/CC/AO

CQ-4602      1.0    365    R                            N\*                    A                    1 UH-1Y

Goal. OS - Conduct night unaided shipboard landing qualification.

Requirements

Discuss

- Shipboard lighting
- Wind limitations

Demonstrate/Introduce  
Night unaided shipboard operations

Review  
Shipboard lighting considerations  
Shipboard instrument procedures  
Delta, Alpha, and Charlie patterns  
Shipboard helicopter director visual signals

Performance Standards  
PUI shall conduct a minimum of five (5) unaided shipboard landings per the UH-1Y NATOPS and shipboard NATOPS manuals.  
PUI should conduct one (1) precision and one (1) non-precision approach, if available.

Prerequisites. FCLP-2502, CQ-4600

External Syllabus Support. Landing platform afloat.

Crew. BIP/PUI/CC/AO

2.18 INSTRUCTOR UNDER TRAINING ACADEMIC PHASE (5000)

2.18.1 Purpose. To develop standardized Instructor Pilots (IPs). These academics review and emphasize procedural-based knowledge, standardized instruction, systems knowledge/nomenclature, and training management to ensure individuals possess the requisite knowledge and ability to teach flight skills.

2.18.2 General. These academics are intended to be an integrated series of academic lectures, readings and practical application contained within each stage of training. The lectures, readings and chalk-talks are contained in the MAWTS-1 UH-1 Course Catalog. The academic courseware is a requirement. The codes listed below associated with these classes may NOT be the most up to date as the current UH-1 Course Catalog is the master document for stage academic requirements

2.18.3 Instructor Under Training academic events are listed below.

INSTRUCTOR UNDER TRAINING ACADEMIC PHASE	
TRAINING CODES	COURSEWARE
GENERAL REQUIREMENTS	
No Lectures	
BIP	
ACAD-5001	Training Management
ACAD-5002	Instructor Philosophy
ACAD-5003	Coach or Umpire
ACAD-5004	Student Trends
ACAD-5005	Briefing/Debriefing
TERFI	
ACAD-5011	Review H-1 Aerodynamics
ACAD-5012	How to Write an ATF
ACAD-5013	Instructional Standardization



WTO	
ACAD-5020	Review Lectures from TCT, REC, SWD, ESC and CAS Stages
ACAD-5021	IUT will present a chalk talk or lecture
ACAD-5022	How to Give a Quality X
ACAD-5023	How to Build a Scenario
TSI	
ACAD-5026	UH-1Y IOS
ACAD-5027	TSI Introduction
ACAD-5028	Tactical Simulator Scenarios
CSI	
Refer to MATSS provided courseware	
FRSI	
ACAD-5060	Fleet Replacement Squadron Instructor Course (FRSIC)
ACAD-5061	Familiarization Stage Standardization Lecture
ACAD-5062	Instrument Stage Standardization Lecture
ACAD-5063	Formation Flight Stage Standardization Lecture
ACAD-5064	TERF Stage Standardization Lecture
ACAD-5065	Navigation Stage Standardization Lecture
ACAD-5066	Specific Weapons Delivery Stage Standardization Lecture
FRS-SI	
ACAD-5070	Fleet Replacement Squadron Standardization Instructor Course (FRS-SIC)
* Indicates classes that should be presented to all pilots annually.	

2.19 INSTRUCTOR TRAINING PHASE (5000)

2.19.1 Purpose. To develop standardized Instructor Pilots (IPs) with the ability to teach flight skills requisite to qualification as a Core Plus/Mission Skills qualified pilot.

2.19.2 General. Upon completion of this phase of training the IUT may be designated a BIP, TERFI, WTO, TSI, CSI, FRSI, FRS-SI, FAC(A)I, TAC(A)I, DACM(I), NSFI, NSI and FLSE.

Completion of the BIP stage and DESG-6498 meets the requirements for the PUI to be designated a BIP. At the discretion of the squadron commanding officer a letter designating the IUT as a BIP shall be placed in the NATOPS jacket and APR. Section leader designation is required prior to BIP designation.

Completion of the TERFI stage meets the requirements for the PUI to be designated a TERFI. At the discretion of the squadron commanding officer a letter designating the IUT as a TERFI shall be placed in the NATOPS jacket and APR.

Completion of the WTO stage and refly of the SWD-2605, meeting instructor under training accuracy metric, completes the requirements for the IUT to be designated a WTO. At the discretion of the squadron commanding officer a letter designating the IUT as a WTO shall be placed in the NATOPS jacket and APR.

Completion of the TSI stage meets the requirements for the IUT to be designated a TSI. At the discretion of the squadron commanding officer a letter designating the IUT as a TSI shall be placed in the NATOPS jacket and APR.

Completion of the CSI stage meets the requirements for the IUT to be designated a CSI. At the discretion of the group commanding officer, a letter designating the IUT as a CSI shall be distributed to squadrons DoSS and operations departments. A copy shall be maintained by the MATSS representative to track CSI currency and refly requirements.

Completion of the FRSI stage meets the requirements for the IUT to be designated a FRSI. At the discretion of the squadron commanding officer a letter designating the IUT as a FRSI shall be placed in the NATOPS jacket and APR.

Completion of the FRS-SI stage meets the requirements for the IUT to be designated a FRS-SI. At the discretion of the squadron commanding officer a letter designating the IUT as a FRSI shall be placed in the NATOPS jacket and APR.

Refer to the MAWTS-1 UH-1 Course Catalog for FAC(A)I, TAC(A)I, DACMI, NSFI, NSI and FLSE requirements.

Prior to the completion of each stage of training, the IUT will be required to present a class from an applicable MAWTS-1 ASP lecture or HMLAT-303 courseware. Emphasis will be placed on error analysis, error correction, instructional techniques, and briefing and debriefing procedures.

2.19.2.1 Stages. The following stages are included in the Instructor Phase of training.

INSTRUCTOR PHASE	
PAR NO.	STAGE NAME
2.19.3	Basic Instructor Pilot (BIP)
2.19.4	Terrain Flight Instructor (TERFI)
2.19.5	Weapons Training Officer (WTO)
2.19.6	Tactical Simulator Instructor (TSI)
2.19.7	Contract Simulator Instructor (CSI)
2.19.8	Fleet Replacement Squadron Instructor (FRSI)
2.19.9	Fleet Replacement Squadron Standardization Instructor (FRS-SI)
2.19.10	Forward Air Controller (Airborne) Instructor [FAC(A)I]
2.19.11	Night Systems SAR Instructor (NSSI)
2.19.12	Night Systems Familiarization Instructor (NSFI)
2.19.13	Tactical Air Coordinator (Airborne) [TAC(A)I]
2.19.14	Defensive Air Combat Maneuvering Instructor (DACMI)
2.19.15	Night Systems Instructor (NSI)
2.19.16	Flight Lead Standardization Evaluator (FLSE)

2.19.2.2 Ordnance Delivery. For ordnance accuracy metrics, refer to paragraph 2.19.8.

2.19.2.3 Navigational Accuracy. At the completion of this phase, the PUI will have demonstrated increased navigational accuracy and timeliness during assault support operations, under all threat conditions. For the Instructor Training Phase, the PUI shall meet the ordnance metrics outlined for the Mission Skill Phase. See Paragraph 2.13.5. IP shall use MPS or aircraft systems to assess landing point accuracy.

2.19.3 Basic Instructor Pilot (BIP)

2.19.3.1 Purpose. To qualify the IUT to instruct basic FAM, INST, FORM, ASPT, FCLP, and CQ.

2.19.3.2 General. To instruct CQ, IUT must meet currency requirements outlined in OPNAVINST 3710.7.

Aircraft should be equipped with an operable HMSD.

Crew Requirements. As listed at the end of each event. With an appropriately qualified crew and at the discretion of the squadron commanding officer, the Instructor Pilot may evaluate the Instructor Under Training from the jump-seat, during BIP events. Co-pilots are required for all simulator events.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

SBIP-5100 1.5 \* R D FFS/FTD S-TEN 1 UH-1Y

Goal. LS - Emergency procedures standardization.

Requirements

Discuss

Cockpit indications of all emergencies  
Instructor techniques  
CRM skills and behaviors  
ORM management as an instructor  
Human factor errors

Demonstrate/Introduce

Procedures for running simulator

Review

Systems failures  
Emergency procedures  
Full/power recovery autorotations  
Aircrew responsibilities

Performance Standards

IUT shall demonstrate the ability to operate the aircraft under all emergency conditions per UH-1Y NATOPS.  
IUT shall demonstrate a thorough knowledge of aircraft systems and emergency procedures.  
Utilizing a co-pilot, IUT shall demonstrate the ability to analyze and instruct proper responses & CRM during aircraft emergency procedures.

Prerequisites. DESG-6398

External Syllabus Support. Device operator

Crew. TSI/IUT/Co-pilot

SBIP-5101 1.5 \* R D FFS/FTD S-TEN/A 1 UH-1Y

Goal. LS - Instruct all FAM stage maneuvers and CQ procedures with emphasis on standardization IAW the UH-1Y NATOPS, MDG and LHA/LHD NATOPS.

Requirements

Discuss

Instructional techniques  
Common PUI mistakes  
FAM Stage maneuvers IAW UH-1Y MDG and NATOPS

FCLP and CQ procedures

Review

Knowledge of AWE, TAMMAC  
Local course rules  
All FAM stage maneuvers  
Shipboard operations

Performance Standards

IUT shall complete five (5) autorotations IAW the UH-1Y NATOPS and MDG.  
IUT shall conduct a minimum of two (2) day CQ landings per the UH-1Y NATOPS and shipboard NATOPS manuals.  
Utilizing a co-pilot, IUT shall demonstrate the ability to analyze and instruct proper CRM and FAM maneuvers emphasizing error analysis.

Prerequisites. SBIP-5100

External Syllabus Support. Device operator. If flown in aircraft:  
FCLP pad

Crew. TSI/IUT/Co-pilot (WTO/IUT)

SBIP-5102 1.5 \* R (N\*) FFS/FTD S-TEN/A 1 UH-1Y

Goal. LS - IUT will demonstrate the ability to instruct in the instrument flight regime.

Requirements

Discuss

Applicable instrument publications  
Instrument flight checklist  
Instrument flight procedures  
Instructional techniques  
Common PUI mistakes and CRM during instrument flight  
Vertigo

Review

IFR flight planning and enroute procedures

Performance Standards

IP will act as PUI. IP will provide the IUT with an actual or notional instrument flight plan developed with intentional errors. IUT will correctly identify all errors in a flight plan provided by the IP.  
IUT will satisfactorily demonstrate the ability to execute, analyze and correct all standard instrument maneuvers under actual or simulated IFR conditions.  
IUT shall ensure that the PUI maintains established BAW parameters.  
IUT shall conduct a minimum of three (3) instrument approaches (1 precision, 2 non-precision).

Prerequisite. SBIP-5100

External Syllabus Support. Device operator

Crew. TSI+IFBM/IUT (WTO+IFBM/IUT(CC/AO))

BIP-5103 1.5 \* D A 1 UH-1Y & 1 H-1

Goal. LS - IUT will demonstrate the ability to instruct formation flight.

Requirements

Discuss

Instructor briefing and debriefing techniques  
Parade and tactical formations  
Formation take-off and landings  
TacForm manuevers

Review

Visual signals  
Lead change  
Inadvertent IMC  
Section takeoff  
Parade and cruise formations  
Breakup, rendezvous & join-up  
Crossovers  
Climbs and descents  
Section landings  
Parade & cruise turns

Performance Standards

The IUT shall brief and lead the flight.  
The IP shall act as the PUI for a portion of the parade and tactical sequences.  
The IUT shall demonstrate all formation stage maneuvers with emphasis on instructional technique, accurate maneuver description, formation signals and parade/tactical formation maneuvering.  
IUT shall properly perform all briefed maneuvers from both lead and wingman position IAW the UH-1Y NATOPS, NTTP and MDG.  
IUT shall be able to identify and correct abnormal parameters performed by the IP/PUI.  
IUT shall demonstrate loss of visual contact and the subsequent rendezvous and join-up

Prerequisite. SBIP-5100

Crew. WTO/IUT/CC/AO

BIP-5104    1.5    \*    R,SC    D    A    2 UH-1Y

Goal. LS - IUT will demonstrate the ability to instruct section tactical landings/ASPT and accurately identify and correct PUI BAW errors, tendencies and procedural errors during FAM maneuvers.

Requirements

Discuss

Error detection and correction techniques  
OPNAVINST 3710.7 chapters 3-8, and 13  
Aviation Training Jacket (ATJ) requirements and organization  
NATOPS Jacket requirements and organization  
Instructor briefing and debriefing techniques  
Water insertion  
Paradrop  
Fastrope  
Rappelling  
Hoist operations  
Similarities between SPIE and externals

Demonstrate/Introduce

Error detection and correction of airwork and procedural deficiencies

Performance Standards

IP shall act as the PUI.

IUT shall satisfactorily demonstrate the ability to recognize, analyze and correct all errors through demonstration or verbal commands.

IUT shall produce applicable LZ diagrams IAW UH-1 NTTP and brief LZs and ingress profiles.

A minimum of one LZ shall be selected with associated IP and timing to LZ.

A minimum of 4 ingress profiles shall be accomplished as lead and 4 ingress profiles shall be accomplished as the wingman. IUT shall land within +/- 30 seconds of L-HR and +/- 50 meters from the zone.

IUT shall conduct a minimum of two (2) Reduced Visibility Landings.

IUT shall demonstrate a fastrope or rappel profile.

Prerequisites. BIP-5103

Crew. WTO/IUT/CC/AO

2.19.4 Terrain Flight Instructor (TERFI)

2.19.4.1 Purpose. To qualify the IUT as a TERF instructor.

2.19.4.2 General. IUT shall be BIP stage complete prior to beginning TERFI training. IUT will demonstrate the ability to utilize mission planning software and appropriate Tactical navigation systems.

Aircraft should be equipped with an operable NTIS and operable HMSD.

Crew Requirements. As listed at the end of each event. With an appropriately qualified crew and at the discretion of the squadron commanding officer, the Instructor Pilot may evaluate the Instructor Under Training from the jump-seat, during TERFI events. A Co-pilot is required for the simulator event.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

STERFI-5110 1.5 \* D FFS/FTD S-TEN/A 1 UH-1Y

Goal. LS - Instruct all TERF maneuvers and profiles.

Requirements

Discuss

Crew coordination  
Comfort level  
Common PUI mistakes  
Map preparation  
Low altitude emergencies  
Single engine operation

Review

All TERF maneuvers  
Tactical decisions to fly TERF  
Threat considerations that influence TERF profiles

Performance Standards

Utilizing a co-pilot, IUT shall satisfactorily demonstrate the

ability to recognize, analyze and correct all errors through demonstration or verbal commands.

Prerequisites. BIP complete.

External Syllabus support. Authorized TERF area

Crew. TSI/IUT/Co-pilot (WTO/IUT/CC/AO)

TERFI-5111 2.0 \* R D E A 1 UH-1Y

Goal. LS - Instruct TERF navigation, maneuvers, profiles and procedures.

Requirements

Discuss

TERF navigation techniques and procedures  
CRM in TERF environment  
Comfort level  
Terrain flight illusions and hazards

Review

Boundary features including lateral limits and intermediate checkpoints  
EGI navigation functions

Performance Standards

IUT shall plan, brief and lead the flight.  
IUT shall navigate in low level, contour and NOE profiles, a route consisting of five (5) checkpoints, utilizing a 1:50,000 scale map remaining oriented within 200 meters, 15 degrees of heading, and arriving at the final checkpoint within +/- 30 seconds of the planned time.  
IUT shall not use the GPS, moving map or overlays for a minimum of 2 legs of the route.  
IUT shall fly from the seat opposite of that flown during STERF-5110.  
Emphasis will be on tactical use of terrain to navigate to a specific objective area, masking and unmasking profiles.  
IUT shall conduct all TERF maneuvers IAW the UH-1Y NATOPS, MDG and NTTP.

Prerequisite. ACAD 5011-5013, STERF-5110

External Syllabus Support. Authorized TERF route

Crew. WTO/IUT/CC/AO

2.19.5 Weapons Training Officer (WTO)

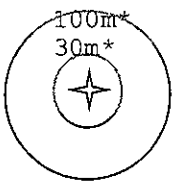
2.19.5.1 Purpose. To qualify the IUT as a WTO.

2.19.5.2 General. IUT shall be TERFI stage complete prior to beginning WTO training. The WTO is qualified to instruct all phases of flight except those requiring FAC(A)I, TAC(A)I, NSSI, NSFII, TSI, NSI, DACMI, or WTI qualifications. As such, the WTO shall demonstrate a sound knowledge of all aircraft weapons systems, threat systems and current tactics, techniques and procedures.

At the completion of this stage, the PUI will have demonstrated increased accuracy and the ability to instruct during ordnance delivery and proper use of the NTIS under all threat conditions with mixed ordnance loads.

At the completion of the WTO syllabus, prior to WTO designation, the PUI shall refile SWD-2605 and will be required to meet the instructor under training accuracy metric. SWD should be conducted on raked/scored ranges whenever possible. Focus should be on weapons delivery profiles and ordnance accuracy, not tactical scenarios. VTR debrief should be used to the maximum extent possible. Emphasis will be on CRM and Tactical Risk Management (TRM) while utilizing the ordnance systems.

IPs shall evaluate ordnance effectiveness based on the following accuracy metrics. Initial ordnance shall be delivered within +/- 30 seconds of established TOT.

INSTRUCTOR UNDER TRAINING	UNGUIDED ROCKET STANDARD	GUN STANDARD	PURPOSE
 <p>*Radius</p>	<p>-In correct profile per NTPP</p> <p>-No miss greater than 100 meters</p> <p>-CE90 &lt; 30 meters**</p> <p>-(1) rocket per pass must impact within 10 meters</p>	<p>-On target within 3 seconds of trigger pull</p> <p>-Crew served: crew coordination sufficient to achieve AG metric</p>	<p>-Based upon M151 Effective Casualty Radius (ECR)***</p> <p>-Demonstrates the capacity to instruct Specific Weapons Delivery</p>

\*\* CE90 example: SWD-2603 requires (7) 2.75" rockets. CE90 < 30 meters requires that 90% of the delivered rockets impact within 30 meters of the target. In order to calculate, simply disregard the worst 10% of rockets released and the remaining farthest SINGLE MISS DISTANCE = CE90. Conservative rounding is applied. Examples:

- 3-10 rockets released ~ disregard one rocket, SECOND FARTHEST MISS = CE90
- 11-20 rockets released ~ disregard two rockets, THIRD FARTHEST MISS = CE90
- In no case can a single rocket miss the intended target by more than 100m, including the omitted rounds for CE90 calculation.

\*\*\* Effective Casualty Radii (ECRs) are generic distances intended to be applied versus the anticipated target set for a particular weapon, based primarily upon explosive yield and warhead/fuse characteristics. Variables to weapon effectiveness include target vulnerability and composition of underlying terrain. Weapons that impact the target vicinity at distances beyond the warhead's ECR are predicted to be ineffective for target damage.

APKWS- Correct switchology, proper LASER placement, profile IAW UH-1 NTPP direct hit.

TOTs - Initial ordnance shall be delivered within +/- 30 seconds of established TOT.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

During this stage, the intent is for the IUT to act as the IP. The IUT is expected to coordinate the event with operations, develop a tactical scenario and act as the instructor. The IP (or designated co-pilot) shall plan, brief and execute the event.



Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

SWTO-5200 1.5 \* R,SC D FFS/FTD S-TEN 1 UH-1Y

Goal. OS - Review all UH-1Y systems (weapons, ASE, navigation, sensors).

Requirements

Discuss

UH-1Y Sensor components, operation, and malfunctions with emphasis on the setup, optimization and employment of the sensor system in all acquisition modes  
UH-1Y navigation system, with emphasis placed on setup and operation for target engagement  
TRM/CRM and instructor techniques during ordnance delivery  
Weapons systems malfunctions and switchology errors  
Common PUI delivery errors and error analysis  
Weapons delivery and error analysis  
Knowledge and instructional techniques in all weapons training areas  
Crew coordination and comfort level

Review

All weapons systems components, operation and employment (e.g. APKWS, flechette, crew-served) weapons systems components, operation and employment  
Ordnance delivery from low and medium altitude  
Buddy lase procedures

Performance Standards

The IUT will develop a tactical scenario. The IP (or co-pilot) shall conduct the planning and briefing of the tactical scenario. The IUT shall act as the instructor throughout the planning, briefing and execution of the tactical scenario.  
Utilizing a co-pilot, the IUT shall demonstrate instructional techniques to correct weapons delivery errors working towards instructor under training accuracy metric.  
IUT shall identify and correct ordnance systems malfunctions and switchology problems.  
IUT shall emphasize CRM during weapons delivery and weapons troubleshooting.

Prerequisites. TERFI-5111

External Syllabus Support. Device operator

Crew. TSI+NSI/IUT/Co-pilot

WTO-5201 1.5 \* SC,R (NS) E A 1 UH-1Y & 1 H-1

Goal. LS - Demonstrate the ability to instruct a tactical event with emphasis on weapons delivery techniques and tactics standardization.

Requirements

Demonstrate

Standardized attack terminology and communication  
CRM and instructor techniques during ordnance delivery  
Range procedures for local ranges

Review

Terrain flight ordnance delivery techniques  
Instructional techniques emphasis on systems malfunctions/failures and ordnance delivery corrections  
Knowledge and instructional techniques in all weapons training areas including the following:  
How to build a scenario  
How to give a quality X  
Briefing and debriefing procedures  
Instructing vs evaluating  
Crew coordination and comfort level

Performance Standards

The IUT will develop a tactical scenario. The IP shall conduct the planning and briefing of the tactical scenario. The IUT shall act as the instructor throughout the planning, briefing and execution of the tactical scenario.  
The IUT shall ensure that all ordnance is delivered IAW published range regulations and squadron SOPs.  
The IUT shall properly identify and correct weapons switchology/delivery errors initiated by the IP working towards instructor under training accuracy metric.  
For series conversion, this will be the last T&R event flown when converting a WTO or NSI. This event will be flown at night under the evaluation of a current NSI when being used to regain NSI certification from an SC syllabus. At the completion of the SC syllabus culminating with this event under all the performance standards listed above, the converting pilot can regain NSI and TAC(A)I provided they meet the currency and prerequisites established in the MAWTS-1 UH-1 Course Catalog.

Prerequisites. ACAD-5020 through 5023, WTO-5200

Ordnance. (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

Range Requirement. LASER safe live fire range with thermally significant targets, if available

Crew. NSI/IUT/CC/AG

2.19.6 Tactical Simulator Instructor (TSI)

2.19.6.1 Purpose. To qualify the IUT as a TSI capable of providing Tactical simulation training in the UH-1Y FFS/FTD.

2.19.6.2 General. IUT shall be in the BIP syllabus prior to beginning TSI training and shall be designated a WTO prior to designation as a TSI. Designated BIPs who are STSI-5210 complete may instruct SFCLP-2500 event in the simulator.

The TSI is qualified to instruct all phases of flight simulation except those requiring FAC(A)I, TAC(A)I, NSSI, NSFI, NSI, DACMI, or WTI qualifications. The TSI shall demonstrate sound knowledge of all aircraft weapons systems, threat systems, and current tactics, techniques and procedures.

The IUT will assist in developing, controlling and instructing tactical simulator events designed to meet the performance requirements of the Core Skills Phase, Mission Skills Phase and Core Plus/Mission Plus Skills Phase simulator events.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog and MATSS-provided training requirements.

STSI-5210 1.5 \* D FTD/FSS S-TEN 1 UH-1Y

Goal. Simulator control position - Introduce simulator control functions and capabilities.

Requirements

Discuss

- Learning objectives
- Performance standards
- M-SHARP simulator logging
- Basic simulator functions (motion, communication, etc.)
- HMSD integration
- Simulator MAF submission

Demonstrate/Introduce

- Environment/weather conditions
- Weapons/ASE configuration
- Systems/Weapons malfunctions
- Threat systems incorporation and capabilities
- Friendly system incorporation and capabilities
- Instrument/approach functions
- Shipboard configuration and functions

Performance Standards

- IUT shall demonstrate the ability to operate the simulator basic flight and adjust environmental conditions.
- IUT shall demonstrate the ability to operate the simulator basic weapons configurations and adjust threat conditions.
- IUT shall demonstrate the ability to operate the simulator basic shipboard configurations and adjust environmental conditions.

Prerequisites. ACAD-5026, In BIP syllabus.

Crew. CSI or TSI/IUT

STSI-5211 1.5 \* R D E FTD/FSS S-TEN+ 1 UH-1Y

Goal. Simulator control position - Review simulator control functions, capabilities and scenario development.

Requirements

Discuss

- Advanced simulation scenario development (METT-TSL)
- Instructor techniques
- Simulator set-up
- Instructor briefing and debriefing techniques

Demonstrate/Introduce

- TEN+ Employment

Review

- Environment/weather conditions
- Weapons/ASE configuration
- Systems/weapons malfunctions

Threat systems incorporation and capabilities  
Friendly system incorporation and capabilities  
Instrument/approach functions  
Shipboard configuration and functions

Performance Standards

IUT shall develop, brief and execute a low to medium threat tactical scenario from the control position.

The IP will act as the PUI and will fly in support of the IUT's training.

IUT shall select and control enemy threat systems.

IUT shall select and control friendly systems.

Prerequisites. ACAD-5027, 5028, WTO-5201, TSI-5210

Crew. MATSS-TSI/IUT/Co-pilot

2.19.7 Contract Simulator Instructor (CSI)

2.19.7.1 Purpose. To develop qualified Contract Simulator Instructors (CSIs) using a standardized instructor program. This syllabus is designed to prepare CSIs to instruct Core Skill Introduction Phase and select Core Skills Phase events in the simulator.

2.19.7.2 General. CSIs will complete all events in the simulator. The events may be conducted from the simulator command position (CP) or the designated UH-1Y crew position at the discretion of the IP.

CSIs shall conduct CSI-5300 and CSI-5301 with a designated FRS NI/ANI.

CSIs shall conduct CSI-5302 and CSI-5303 with a designated WTI.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog and MATSS-provided training requirements.

CSI-5300 1.5 365 M D E FFS/FTD S-TEN 1 UH-1Y

Goal. OS - Emergency procedures & FAM stage standardization.

Requirements

Discuss

Cockpit indications of all emergencies  
Aircraft limitations  
Aircraft systems  
MDG FAM maneuvers and systems failures  
Day/Night shipboard patterns

Review

Systems failures  
Emergency procedures  
Full/power recovery autorotations  
Aircrew responsibilities  
All FAM stage maneuvers  
Shipboard specific crew coordination  
Shipboard airspace

Performance Standards

- IUT shall demonstrate the ability to operate the aircraft under all emergency conditions per UH-1Y NATOPS.
- IUT shall demonstrate a thorough knowledge of aircraft systems, emergency procedures and MDG procedures.
- IUT shall emphasize CRM during emergency procedures execution.
- IUT shall perform all maneuvers IAW UH-1Y MDG and NATOPS.
- IUT shall conduct a minimum of 2 day and 2 night shipboard landings per the UH-1Y NATOPS and shipboard NATOPS manuals.

Prerequisite. Candidate CSI

Crew. NI (ANI)/IUT

CSI-5301    1.5    365    M                    (N\*)   E   FFS/FTD S-TEN    1 UH-1Y

Goal. RS - Instrument Standardization.

Requirements

Discuss

- Applicable instrument publications
- Instrument flight checklist
- Instrument flight procedures
- Instructional techniques
- Squadron flight operations SOP

Review.

- IFR flight planning and en route procedures

Performance Standards

- IUT shall satisfactorily demonstrate the ability to execute, analyze and correct all standard instrument maneuvers under simulated IMC IAW UH-1Y NATOPS and MDG.
- IUT shall maintain established BAW parameters IAW Instrument Flight Manual and MDG.
- Conduct a minimum of 3 instrument approaches (1 precision, 2 non-precision).

Prerequisites. CSI-5300

Crew. NI (ANI)/IUT

CSI-5302    1.5    365    M                    D   E   FFS/FTD S-TEN    1 UH-1Y

Goal. RS - Introduce ASE functionality and operation.

Requirements

Discuss

- ASE suite operation (NATOPS checklists, visual displays and audio messages for power on and BIT)
- AWE threat database
- Expendables
  - Nomenclature (training and tactical)
  - General purpose / applicable threat types
- AAR-47 and APR-39
  - General purpose / applicable threat types
  - Displays, controls, detectors and other components
- Visual and audio threat information
- Automatic and manual threat reaction capabilities & operation
- APR-39, AAR-47 and ALE-47 integration

AAR-47 operating environment and principles of operation  
Software - version reporting and significance  
ALE-47  
General purpose  
Controls, displays and other components  
System modes of operation  
BIT, maintenance BIT and failure messages  
MAG ID setting, reporting and implications  
Dispense switch function

Demonstrate

RADAR search, acquire, track and launch visual/audio indications  
Successful IR missile, RADAR missile and RADAR ADA engagement and indications  
Automatically and manually dispense chaff to disrupt RADAR threat engagement  
Automatically and manually dispense flares to disrupt IR missile engagement  
Time permitting, execute ASTACSOP threat reactions (communication, maneuvering, and expendables) to visually acquired non-RADAR ADA, RADAR ADA, RADAR SAMs and IR SAMs

Introduce

ASE suite power on, BIT, settings and power off per NATOPS and TPG checklists  
ASE suite cockpit control switchology and related display information (EW page setup)  
Inventory reset  
Threat intervisibility

Performance Standards

IUT shall successfully operate (energize and BIT) and troubleshoot APR-39, AAR-47 and ALE-47 systems. Observe various threat system indications.  
IUT shall load a mission card with editable points from a local database and threats as directed by IP.  
IUT shall load a vector overlay with threat rings.

Prerequisite. ACAD-1012, Candidate CSI

Crew. WTI/IUT

CSI-5303 1.5 365 M D E FFS/FTD S-TEN 1 UH-1Y

Goal. RS - Review specific weapons delivery.

Requirements

Discuss

Rocket and fixed forward GAU-17 profiles  
Rocket and crew served weapons trouble shooting considerations  
SOP ordnance procedures  
Target/reticle fixation  
CRM during ordnance evolutions  
Flechette rocket delivery profiles  
Illumination delivery profiles  
Hellfire buddy lase procedures

Review

Rocket and crew served ordnance emergencies  
HUD symbology  
7.62mm fixed forward using running, pop-up, and diving fire

Rocket and crew served ordnance delivery using pop-up, and diving fire per the NTPP

Performance Standards

IUT shall successfully employ crew served weapons systems at ranges from 300-1500 meters and 2.75 inch rockets at ranges from 300-1200 meters, exhibiting proper impact detection and adjustment, working towards Core Skill accuracy metric while adhering to all range regulations.

Prerequisite. Candidate CSI

Crew. WTI/IUT

2.19.8 Fleet Replacement Squadron Instructor (FRSI)

2.19.8.1 Purpose. To certify the IUT as a Fleet Replacement Squadron Instructor capable of instructing Core Skills Introduction Phase events. Emphasis will be placed on instructor proficiency, training standardization, and aircraft recovery from various regimes.

2.19.8.2 General. IUT must have been designated WTO prior to beginning FRSI training. In the event of an IUT in need of a refresher syllabus, IUT must be designated PQM prior to beginning FRSI training. The IUT may be designated to instruct within the Core Skills Introduction Phase, once complete with all related FRSI events for that stage.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW HMLAT-303 FRS Course Catalog.

SFRSI-5310 1.5 \* D FFS/FTD S-TEN 1 UH-1Y

Goal. LS - Emergency procedures review.

Requirements

Discuss

RAC tendencies on CRM/EP sims

Review

Engine driven suction pump failure  
Single engine failure  
Dual engine failure at high power and airspeed  
Dual engine failure in flight  
Rotor brake pressurizes in flight  
Dual engine failure during takeoff  
Engine hot start  
Emergency shutdown  
Np underspeed  
Np overspeed  
Engine electrical system failures  
Loss of tail rotor thrust/components in a hover  
Loss of tail rotor thrust/components in flight  
Single engine fire  
Dual engine fire  
Compressor Stall  
Complete electrical failure  
Main drive shaft failure  
Full autorotations

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS and MDG.

Prerequisites. WTO-5201

Crew. CSI or ANA/IUT

FRSI-5311 2.0 \* D A 1 UH-1Y

Goal. LS - Review familiarization maneuvers.

Requirements

Discuss

FAM stage RAC tendencies

Review

Fixed pitch tail rotor malfunctions  
High speed low level autorotation  
Waveoff procedures  
Slope landing and takeoff  
20 to 30 degree dives  
DECU lockout  
Sliding landings  
Single Engine Failure (Rwy, spot, away from pattern)  
High altitude emergencies  
Pattern autorotations  
Hovering/Taxiing Autorotations  
Maximum power takeoff  
High speed approach and landing  
No hover takeoff  
No hover landings  
Precision (steep) approach  
Normal approach  
Normal takeoff  
Low work  
Course rules/area fam  
#1 hydraulic failure

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS and MDG.

IUT shall demonstrate a high level of proficiency in all maneuvers before proceeding to FRSI-5312.

Prerequisites. FRSI-5310

Crew. ANI/IUT

FRSI-5312 2.0 \* D A 1 UH-1Y

Goal. LS - Review familiarization maneuvers.

Requirements

Discuss

FAM stage RAC tendencies

Review

Fixed pitch tail rotor malfunctions  
High speed low level autorotation  
Waveoff procedures



Slope landing and takeoff  
20 to 30 degree dives  
DECU lockout  
Sliding landings  
Single Engine Failure (Rwy, spot, away from pattern)  
High altitude emergencies  
Pattern autorotations  
Hovering/Taxiing Autorotations  
Maximum power takeoff  
High speed approach and landing  
No hover takeoff  
No hover landings  
Precision (steep) approach  
Normal approach  
Normal takeoff  
Low work  
Course rules/area fam  
#1 hydraulic failure

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS and MDG.  
IUT shall demonstrate a high level of proficiency in all maneuvers before proceeding to FRSI-5313.

Prerequisites. FRSI-5311

Crew. ANI/IUT .

FRSI-5313 2.0 \* R D E A 1 UH-1Y

Goal. LS - Familiarization evaluation.

Requirements

Discuss

Standardization regarding FAM stage demonstrate items  
Risk mitigation during high risk maneuvers  
FAM event time management  
Any NATOPS EP, system, limit or MDG FAM stage procedure

Review

Fixed pitch tail rotor malfunctions  
High speed low level autorotation  
Waveoff procedures  
Slope landing and takeoff  
20 to 30 degree dives  
DECU lockout  
Sliding landings  
Single Engine Failure (Rwy, spot, away from pattern)  
High altitude emergencies  
Pattern autorotations  
Hovering/Taxiing Autorotations  
Maximum power takeoff  
High speed approach and landing  
No hover takeoff  
No hover landings  
Precision (steep) approach  
Normal approach  
Normal takeoff  
Low work  
Course rules/area fam  
Crew brief  
Mission brief

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS and MDG.  
IUT shall give mission and crew brief. IP to act as RAC.

Prerequisites. FRSI-5312

Crew. ASI/IUT

FRSI-5314 2.0 \* R (N) E A 1 UH-1Y

Goal. LS - Evaluate instrument flight procedures.

Requirements

Discuss

Any INST stage discussion item, maneuver or procedure  
Conduct and performance standards of SINST-1205  
IP/RAC CRM expectations during INST stage  
INST stage RAC tendencies  
Intracockpit brief emergencies considerations for flights in IMC

Review

Emergencies - ASAPossible  
Emergencies - ASAPractical  
Airway navigation  
Missed approach  
No-Gyro approach  
Airport Surveillance Radar (ASR)  
Precision Approach Radar (PAR)  
TACAN approaches and procedures  
Standard Instrument Departures (SIDs)  
Instrument autorotation  
Partial panel  
Instrument takeoff (ITO)  
Instrument checklists

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS, MDG and OPNAV 3710.  
To the max extent possible, IUT will conduct approaches away from homefield and file a DD-175.  
IUT shall conduct a minimum of 2 instrument approaches.  
IUT shall plan and execute an instrument flight IAW OPNAV 3710.

Prerequisites. FRSI-5310

Crew. ASI/IUT

FRSI-5315 2.0 \* R D A 2 UH-1Y

Goal. LS - Review formation flight and tactical formation flight maneuvering.

Requirements

Discuss

Any FORM stage discussion item, maneuver or procedure  
Conduct and performance standards of FORM-1304  
IP/RAC CRM expectations during FORM stage  
FORM stage RAC tendencies

Review

- ASTACSOP loss of visual contact
- ASTACSOP IIMC
- ASTACSOP RIO
- Lead change
- Formation communication
- Wingman awareness
- Formation takeoff
- Formation landing
- Tactical formation maneuvers
- Cruise turns
- Breakup and rendezvous
- Crossovers
- Parade turns
- Cruise flight
- Parade flight

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS, MDG, ASTACSOP and NTTP.

IUT should perform all maneuvers as lead and wingman.

Prerequisites. FRSI-5310

Crew. ASI/IUT

FRSI-5316    2.0    \*    R    D    A    1 UH-1Y

Goal. LS - Review assault support maneuvers and procedures.

Requirements

Discuss

- Maneuver standardization
- Instructional technique
- Error analysis/mitigation
- CRM
- Safety considerations
- Power settling
- Vortex ring state
- Dual engine/single engine performance
- Landing zone brief
- Dynamic rollover
- Height-velocity diagram
- Power checks
- Hover box operations
- Brownout/whiteout landings
- Tactical approaches/departures
- HIE operations
- Threat conditions
- High altitude operations
- External load operations
- Hoist operations
- Squadron SOPs
- Confined area landings

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS, MDG, ASTACSOP and NTTP.

IUT shall satisfactorily demonstrate the ability to detect, analyze

and correct deviations in the performance of maneuvers and procedures.

Prerequisites. FRSI-5310

Crew. ANI/IUT/CC

FRSI-5317 2.0 \* R D A 1 UH-1Y

Goal. LS - Review TERF maneuvers.

Requirements

Discuss

Any TERF stage discussion item, maneuver or procedure  
IP/RAC CRM expectations during TERF stage  
TERF stage RAC tendencies

Review

Turns  
Roll  
Bunt  
Masking and unmasking  
NOE quickstop  
NOE approach  
NOE takeoff  
Power checks  
Nap of Earth (NOE)  
Contour flight  
Low level flight

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS, MDG and NTP.

Prerequisites. FRSI-5310

External Syllabus Support. Authorized TERF maneuvering area

Crew. ANI/IUT/CC

FRSI-5318 2.0 \* R D A 2 UH-1Y

Goal. LS - Review weapons systems operation.

Requirements

Discuss

Any SWD stage discussion item, maneuver or procedure  
Conduct and performance standards of SWD-1602  
CRM expectations during SWD stage  
CRM during ordnance delivery  
SWD stage RAC tendencies  
Arm/DeArm checklist  
After arming checklist  
Helmet Mounted Sight and Display (HMSD)

Review

Rocket delivery  
Crew served weapons delivery  
Weapons emergencies  
Ordnance communication procedures  
Ordnance checklists

Range operations and regulations

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all SWD stage procedures, and checklists IAW the UH-1Y NATOPS, MDG, ASTACSOP and NTP.

IUT shall brief and lead the flight and conduct crew brief. Crew brief shall give special attention to switchology and weapons release authority.

IP will act as RAC.

Conduct of the flight should be based on IUT's currency and proficiency in weapons systems.

Prerequisites. FRSI-5310

Ordinance. (7) 2.75 inch rockets, (500) .50 Cal GAU-21, (1500) 7.62mm GAU-17

Range Requirements. Live fire LASER safe range

Crew. ANI/IUT/CC/AG

FRSI-5319 2.0 \* R NS A 1 UH-1Y

Goal. LS - Review NVD familiarization maneuvers.

Requirements

Discuss

Any Core Skills Introduction NVD event discussion item, maneuver or procedure  
RAC NVD tendencies  
Standardization with regards to Core Skills Introduction Phase NVD events

Introduce

Fixed pitch tail rotor malfunctions  
Sliding landings  
Single Engine Failure (Rwy, spot, away from pattern)  
High speed low level autorotation  
Pattern autorotations  
Hovering/Taxiing autorotations  
High speed approach and landing  
No hover takeoff  
No hover landings  
Precision (steep) approach  
Normal approach  
Normal takeoff  
Low work

Performance Standards

IUT shall have a detailed understanding and functional knowledge of all procedures and maneuvers IAW the UH-1Y NATOPS, MDG and MAWTS-1 NVD Manual.

IUT shall demonstrate a high level of proficiency in all maneuvers before completing this event (RAT as required).

Prerequisites. Current NSI or NSFI, FRSI-5313, 5315, 5316, 5317

Crew. ASI/IUT

2.19.9 Fleet Replacement Squadron Standardization Instructor (FRS-SI)

2.19.9.1 Purpose. To certify the IUT as an FRS-SI or an FRS-ASI capable of instructing Core Skill Introduction evaluation events and specified FRSI events. Emphasis will be placed on Core Skill Introduction instructional standardization, Core Skill Introduction evaluation standardization, scenario based training, and role playing during evaluation flights with a pilot in command-based standard.

2.19.9.2 General. IUT must have been designated FRSI, NSFI/NSI and ANI prior to beginning the FRS-SI syllabus. The lead standardization instructor will be indicated by FRS-SI, and assistant standardization instructors will be indicated by FRS-ASI. The FRS-SI/FRS-ASI relationship is similar to the NI and ANI relationship as described in OPNAV 3710.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the HMLAT-303 FRS Course Catalog.

FRSSI-5320 2.0 \* D A 2 UH-1Y

Goal. LS - Introduce the conduct of the FORM-1304 formation stage evaluation.

Requirements

Discuss

Safety considerations  
Considerations for executing in conjunction with actual FORM-1300  
Scenario based training management and role playing  
Grading and pass/fail standardization  
RAC tendencies

Performance Standards.

Event shall be conducted cross cockpit in conjunction with a FORM-1300 or FORM-1301 PUI event and a FORM-1304 PUI event. The FRS-ASI under training shall give the 1300/1301 and be the section leader, and IP shall give the 1304.

FRS-ASI under training will coordinate with IP for the conduct of the flight. IUT shall give special attention to planning, briefing, and debriefing and the execution of contingency items for the FORM-1304.

Prerequisites. ACAD-5337

Crew. ASI/IUT

SFRSSI-5321 1.5 \* D FFS/FTD S-TEN 1 UH-1Y

Goal. Introduce the conduct of the CSIX-1900 and CSIX-1901 evaluation.

Requirements

Discuss

Differences between CSIX-1900 and CSIX-1901 and aircraft related safety considerations  
Scenario based training management and role playing  
Grading and pass/fail standardization

RAC tendencies

Performance Standards

Under the supervision of and in coordination with the IP, the IUT shall give the CSIX-1900 to an actual RAC PUI.

Prerequisites. ACAD-5337

Crew. ASI/IUT/RAC PUI

2.19.10 Forward Air Controller (Airborne) Instructor FAC(A)I

2.19.10.1 Purpose. To certify the IUT as a FAC(A)I capable of conducting ground and airborne instruction of FAC(A) missions. Emphasis will be placed on the ability to coordinate simultaneous FW and RW CAS, surface fires (direct and indirect), while working with a TACP and operating within the MACCS.

2.19.10.2 General. IUT shall be FAC(A) qualified IAW NAVMC 3500.20 and current/proficient per the JFAC(A) MOA. IUT shall be designated an NSI prior to beginning the FAC(A)I syllabus. *IUT shall have logged a year's worth of FAC(A) controls after being designated a FAC(A) prior to beginning the FAC(A)I syllabus.*

Aircraft should be configured with an operable NTIS, HMSD, LDRS, VTR and IR pointer (night events).

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

FACAI-5400 1.5 \* (NS) A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the FAC(A)I POI.

Ordnance. (7) 2.75 inch RP rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

FACAI-5401 2.0 \* R (NS) E A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the FAC(A)I POI.

Ordnance. (7) 2.75 inch RP rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

2.19.11 Night Systems SAR Instructor (NSSI)

2.19.11.1 Purpose. To certify the IUT as an NSSI capable of safely conducting ground and airborne instruction of night vision device (NVD) flight during the syllabus outlined in NAVMC 3500.91 SAR Manual.

2.19.11.2 General. IUT will be Night Systems Qualified (NSQ).

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

NSSI-5500 2.0 \* NS A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSSI POI.

NSSI-5501 2.0 \* NS A 1 UH-1Y & 1 H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSSI POI.

NSSI-5502 2.0 \* R NS E A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSSI POI.

2.19.12 Night Systems Familiarization Instructor (NSFI)

2.19.12.1 Purpose. To certify the IUT as an NSFI capable of safely conducting ground and airborne instruction of night vision device (NVD) flight during the Core Skills Introduction Phase.

2.19.12.2 General. IUT will be Night Systems Qualified (NSQ) and TERFI prior to beginning training.

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

NSFI-5600 2.0 \* NS A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSFI POI.

NSFI-5601 2.0 \* NS A 1 UH-1Y & 1 H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSFI POI.

NSFI-5602 2.0 \* R NS E A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSFI POI.

2.19.13 Tactical Air Coordinator (Airborne) (TAC(A)I)

2.19.13.1 Purpose. To certify the IUT as an TAC(A)I capable of safely conducting ground and airborne instruction of TAC(A) missions.

2.19.13.2 General. IUT will be designated a FAC(A) Instructor and TAC(A) qualified prior to beginning training.

Aircraft should be configured with an operable NTIS, HMSD, LDRS, VTR and IR pointer (night event).

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.



TACAI-5700 2.0 \* R (NS) E A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the TAC(A)I POI.

2.19.14 Defensive Air Combat Maneuvering Instructor (DACMI)

2.19.14.1 Purpose. To certify the IUT as a Rotary Wind Defensive Air Combat Maneuvering Instructor (RW DACMI) and Fixed Wing Defensive Air Combat Maneuvering Instructor (FW DACMI) capable of safely conducting ground and airborne instruction of the UH-1 air-to air flight syllabus.

2.19.14.2 General. IUT will be RW DACM qualified and designated WTO prior to beginning RW DACMI training. IUT will be FW DACM qualified and designated WTO prior to beginning FW DACMI training.

Upon completion of DACMI-5800 and DACMI-5802, the IUT may be designated a RW DACMI, capable of instructing RW DACM T&R events and the RW DACMI IUT syllabus (DACMI-5800).

Upon completion of DACMI-5801 and DACMI-5803, the IUT may be designated a FW DACMI, capable of instructing FW DACM T&R events and the FW DACMI IUT syllabus (DACMI-5801).

Aircraft should be configured with an operable NTIS, HMSD, APR-39, ALE-47 and expendables.

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

DACMI-5800 2.0 \* D A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the DACMI POI.

Ordnance. (60) flares and TCTS pod (optional)

DACMI-5801 2.0 \* D A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the DACMI POI.

Ordnance. (60) flares and TCTS pod (optional)

DACMI-5802 2.0 \* R D E A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the DACMI POI.

Ordnance. (60) flares and TCTS pod (optional)

DACMI-5803 2.0 \* R D E A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the DACMI POI.

Ordnance. (60) flares and TCTS pod (optional)

2.19.15 Night Systems Instructor (NSI)

2.19.15.1 Purpose. To certify the IUT as an NSI capable of safely conducting ground and airborne instruction of the UH-1Y night vision device (NVD) flight syllabus.

2.19.15.2 General. IUT will be Night Systems Qualified (NSQ) and designated WTO prior to beginning training.

Aircraft should be configured with an operable NTIS, HMSD, LDRS, VTR, APR-39, ALE-47 and crew served mounted IR pointers.

Crew Requirements. IAW MAWTS-1 UH-1 Course Catalog.

Ground/Academic Training. IAW MAWTS-1 UH-1 Course Catalog.

NSI-5900 2.0 \* NS A 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

NSI-5901 1.5 \* NS FFS/FTD S-TEN 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

NSI-5902 2.0 \* NS A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

Ordnance. (14) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

NSI-5903 2.0 \* R NS A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

Ordnance. (14) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

NSI-5904 1.5 \* NS E FFS/FTD S-TEN 1 UH-1Y

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

NSI-5905 2.0 \* R NS E A 1 UH-1Y & H-1

Requirement. Reference the MAWTS-1 UH-1 Course Catalog for the NSI POI.

Ordnance. (14) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares

2.19.16 FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)

2.19.16.1 Purpose. To certify and designate the pilot as a FLSE.

2.19.16.2 General. FLSEs ensure flight leadership standardization across all squadrons. The FLSE shall conduct a standardized evaluation of a

prospective flight leader's ability to safely and effectively perform the duties as a flight lead. Prospective FLSEs shall complete the POI listed below. Upon completion of the POI, the squadron commanding officer will nominate the prospective FLSE to the MAG commanding officer for approval and designation. FLSE-5920 is not required for Weapons and Tactics Instructor Course (WTI) graduates that do not require refresher training. Designated FLSEs are required to complete annual standardization training with the Program Coordinator. Refer to NAVMC 3500.14 and the UH-1 MAWTS-1 Course Catalog.

Re-designation. FLSE re-designation criteria for aircrew that do not require Core Skill Introduction Refresher training is at the discretion of the MAG CO. For aircrew who require Core Skill Introduction Refresher training, the minimum re-designation requirement for FLSE positions is successful completion of the R-coded T&R FLSE POI.

Crew requirements. Shall be determined by the Wing FLSE Program Coordinator or the FLSE Model Manager.

Academic/Ground Training. IAW MAWTS-1 UH-1 Course Catalog.

FLSE-5920 2.0 \* R (NS) E A 1 UH-1Y & 1 H-1

Goal. To certify the IUT to be designated a FLSE

Requirement. IAW MAWTS-1 UH-1 Course Catalog

Performance Standard. IAW MAWTS-1 UH-1 Course Catalog

Prerequisite. DL-6598 (Designated DL and NSI)

External Syllabus Support. Program Coordinator

FLSE-5921 0.0 365 R,M (N) E Annual FLSE Training

Goal. Complete annual FLSE training with the Program Coordinator

Requirement. Annual training with the FLSE Program Coordinator

Performance Standard. Successful completion of the annual FLSE training.

Prerequisite. FLSE-5920

External Syllabus Support. Program Coordinator

2.20 REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS (RQD) ACADEMICS PHASE (6000)

2.20.1 Purpose. To develop standardized flight leadership skills and knowledge. These academics review and emphasize procedural based knowledge, systems knowledge/nomenclature, and advanced Joint/MAGTF topics to ensure individuals possess the requisite knowledge and ability to command their aircraft and lead flights.

2.20.2 General. These academics are intended to be an integrated series of academic lectures, readings and practical application contained within each

phase of training. The lectures, readings and chalk-talks are contained in the MAWTS-1 UH-1 Course Catalog. The academic courseware is a requirement. At the completion of each ACAD event, the appropriate training code shall be logged in M-SHARP by the individual pilot, contract instructor or squadron operations personnel, as appropriate. The codes listed below associated with these classes may not be the most up to date as the current UH-1 Course Catalog is the master document for stage academic requirements.

2.20.3 Flight leadership academic events are listed below.

REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS ACADEMIC PHASE	
TRAINING CODES	COURSEWARE
<b>INST/NATOPS</b>	
No Lectures	
<b>FCP</b>	
No Lectures	
<b>FOM</b>	
ACPM-8200	MACCS Agencies, Functions, and Control of Aircraft and Missiles
ACPM-8201	MWCS Brief
ACPM-8202	ACA and Airspace
ACPM-8230	ACE Battle Staff
ACPM-8231	Battle Command Display
ACPM-8240	Six Functions of Marine Aviation
ACPM-8241	ASR/JTAR Introduction and Practical Application
ACPM-8242	Site Command Primer
ACPM-8250	Theater Air Ground System (TAGS)
<b>UHC</b>	
ACPM-8300	Air Defense
ACPM-8310	Forward Arming Refueling Point (FARF) Operations
ACPM-8321	Joint Air Tasking Cycle, Phase 1: Strategy Development
ACPM-8322	Joint Air Tasking Cycle, Phase 2: Target Development
ACPM-8323	Joint Air Tasking Cycle, Phase 3: Weaponeering and Allocation
ACPM-8324	Joint Air Tasking Cycle, Phase 4: Joint ATO Production
ACPM-8325	Joint Air Tasking Cycle, Phase 5: Force Execution
ACPM-8326	Joint Air Tasking Cycle, Phase 6: Combat Assessment
ACPM-8340	Integrating Fires and Airspace within the MAGTF
ACPM-8350	Phasing Control Ashore
ACPM-8351	TACRON Organizations and Functions
<b>SECTION LEADER</b>	
ACAD-6040	Review Intel Prep of the Battlespace
ACAD-6041	(S) MAGTF Targeting and Fire Support Planning*
ACAD-6042	JTAC-Aircrew Integration
ACPM-8630	Tactical Air Command Center (TACC)
ACPM-8660	Joint Ops Intro
<b>DIVISION LEADER</b>	
ACAD-6050	Review ROE Planning
ACAD-6051	Review Objective Area Planning*
ACAD-6052	Review (S) Weaponeering
ACPM-8640	Joint Data Network
ACPM-8641	MAGTF Theater and National ISR Employment
<b>FLIGHT LEADER</b>	
ACAD-6060	Review TRAP TTPs
ACAD-6061	Review Execution Checklist
ACPM-8620	ESG/CSG Integration
<b>AIR MISSION COMMANDER</b>	
ACAD-6070	Review Rapid Response Planning
ACAD-6071	Air Mission Commander
ACAD-6072	Review NEO Execution

\*Indicates classes that should be presented to all pilots annually.

2.21 REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS (ROD) PHASE (6000)

2.21.1 Purpose. To outline the requirements for qualifications, designations and flight leadership.

2.21.2 General. Once the flight to attain the qualification/designation is complete, a letter from the squadron commanding officer awarding the qualification/designation shall be placed in the NATOPS and APR before that qualification/designation can be utilized.

Completion of the INST-6100 sortie meets the requirements for the PUI to be instrument qualified. At the discretion of the squadron commanding officer a letter designating the PUI as Instrument qualified shall be placed in the NATOPS jacket and APR.

Completion of the NTPS-6101 sortie meets the requirements for the PUI to be NATOPS qualified. At the discretion of the squadron commanding officer a letter assigning the PUI as NATOPS qualified shall be placed in the NATOPS jacket and APR.

Completion of FCF stage meets the requirements for the PUI to be eligible for the FCP designation. At the discretion of the squadron commanding officer a letter designating the PUI as an FCP shall be placed in the NATOPS jacket and APR.

Successful completion of the Core Skills Phase and the Mission Skills Phase meets the requirements for the PUI to be eligible for the UHC designation. Upon completion of the DESG-6398 event and refly of SWD-2605 meeting Mission Skills ordnance accuracy standards, and at the discretion of the squadron commanding officer, a letter designating the PUI as an UHC shall be placed in the NATOPS jacket and APR.

Completion of the Section Lead stage SL-6498 meets the requirements for the PUI to be eligible for the Section Lead designation. At the discretion of the squadron commanding officer a letter designating the PUI as Section Lead shall be placed in the NATOPS jacket and APR.

Completion of the Division Lead stage DL-6598 stage meets the requirements for the PUI to be eligible for the Division Lead designation. At the discretion of the squadron commanding officer a letter designating the PUI as Division Lead shall be placed in the NATOPS jacket and APR.

Completion of the FL-6698 sortie meets the requirements for the PUI to be eligible for the Flight Lead designation. At the discretion of the squadron commanding officer a letter designating the PUI as Flight Lead shall be placed in the NATOPS jacket and APR.

Completion of the DESG-6598 sortie meets the requirements for the PUI to be eligible for the AMC designation. At the discretion of the squadron commanding officer a letter designating the PUI as AMC shall be placed in the NATOPS jacket and APR.

CRP is not awarded for 6000-level sorties, however, CRP credit may be obtained by logging the appropriate training code(s) in the 2000-4000 phase syllabi.

2.21.2.1 Stages. The following stages are included in the Requirements, Qualifications and Designation (RQD) phase.

REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS PHASE	
PAR NO.	STAGE NAME
2.21.3	Instrument Rating (INST)
2.21.4	NATOPS Qualification (NATOPS)
2.21.5	Crew Resource Management Training (CRM)
2.21.6	Functional Check Pilot (FCP)
2.21.7	Pilot Qualified in Model (PQM)
2.21.8	Utility Helicopter Commander (UHC)
2.21.9	Section Leader (SL)
2.21.10	Division Leader (DL)
2.21.11	Flight Leader (FL)
2.21.12	Air Mission Commander (AMC)
2.21.13	Specific Operations Tracking Codes (SOTC)

2.21.2.2 Ordnance Delivery. At the completion of applicable stages, the PUI will have demonstrated increased accuracy during ordnance delivery and proper use of the NTIS under varied threat conditions with mixed ordnance loads. For the UHC, SL, DL and FL stages, the PUI shall meet the ordnance metrics outlined for the Mission Skills Phase. See Paragraph 2.15.4. VTR debrief should be used to the maximum extent possible. Emphasis will be on CRM and Tactical Risk Management (TRM) while utilizing the ordnance systems.

2.21.2.3 Navigational Accuracy. At the completion of applicable stages, the PUI will have demonstrated increased navigational accuracy and timeliness during assault support operations, under varied threat conditions. For the UHC, SL, DL and FL stages, the PUI shall meet the ordnance metrics outlined for the Mission Skill Phase. See Paragraph 2.15.5. IP shall use MPS or aircraft systems to assess landing point accuracy.

2.21.3 Instrument Rating (INST)

2.21.3.1 Purpose. To certify the PUI as instrument rated in the UH-1Y.

2.21.3.2 General. The instrument rating is an annual requirement. The PUI shall log annual instrument minimum requirements prior to event IAW OPNAVINST 3710. A designated Instrument Instructor, who is a member of the Instrument Flight Board (IFB), shall evaluate INST-6100.

Aircraft shall be configured with an operable NAVAID/TACAN.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW OPNAVINST 3710.7.

INST-6000 8.0 365 R,SC,M Instrument Ground School

Goal. Attend an TYCOM approved instrument ground school per OPNAVINST 3710.7.

Performance Standards. Achieve a grade of qualified IAW OPNAVINST 3710.7.

INST-6001 1.0 365 R,SC,M Instrument Ground School Exam

Goal. To evaluate the airman's knowledge of instrument flight and procedures.

Performance Standards. Achieve a grade of qualified IAW OPNAVINST 3710.7.

INST-6100 1.5 365 R,SC,M (N\*) E A/S-TEN 1 UH-1Y

Goal. OS - Conduct an annual instrument check.

Requirement. Successfully conduct the check IAW the NATOPS, MDG, OPNAVINST 3710.7 and Instrument Flight Manual (IFM).

Performance Standards. IAW the NATOPS, MDG, OPNAVINST 3710.7 and Instrument Flight Manual (IFM).

Prerequisite. INST-6000, 6001 and IAW OPNAVINST 3710.7

Crew. BIP+IFBM/PUI

#### 2.21.4 NATOPS Qualification

2.21.4.1 Purpose. To certify the PUI as NATOPS qualified in the UH-1Y.

2.21.4.2 General. The NATOPS qualification is an annual requirement. An designated NATOPS Instructor/Assistant NATOPS Instructor shall evaluate NTPS-6101.

To the greatest extent possible, an EP review (FAM-2801) will be conducted in the same month as the annual NATOPS check (NTPS-6101). In lieu of a UH-1Y simulator, the FAM-2801 may be conducted verbally by a qualified instructor pilot with the pilot under instruction in the aircraft cockpit. The annual CRM evaluation (CRM-6102) should be completed in conjunction with the annual NATOPS check, when possible.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW NATOPS.

NTPS-6002 1.5 365 R,SC,M Open Book NATOPS Evaluation

Goal. To evaluate airman's knowledge of normal/emergency procedures, systems and aircraft limitations.

Performance Standards. Achieve a grade of qualified IAW NATOPS.

NTPS-6003 1.0 365 R,SC,M Closed Book NATOPS Evaluation

Goal. To evaluate airman's knowledge of normal/emergency procedures, systems and aircraft limitations.

Performance Standards. Achieve a grade of qualified IAW NATOPS.

NTPS-6004 1.0 365 R,SC,M Oral NATOPS Evaluation

Goal. To evaluate airman's knowledge of normal/emergency procedures, systems and aircraft limitations.

The oral examination may be conducted prior to or as part of the flight evaluation.

Performance Standards. Achieve a grade of qualified IAW NATOPS.

NTPS-6101 1.5 365 R,SC,M (N) E A/S-TEN FFS/FTD 1 UH-1Y

Goal. OS - Conduct an annual NATOPS check

Requirement. Successfully conduct the evaluation IAW OPNAVINST 3710.7 and NATOPS

Performance Standards. IAW OPNAVINST 3710.7 and NATOPS

Prerequisites. Grade of qualified on NTPS-6002 & 6003

Crew. NI/ANI (NSI required if flown using NVDs)/PUI

Performance Standards. IAW OPNAVINST 3710.7 and NATOPS

2.21.5 Annual Crew Resource Management (CRM) Evaluation

2.21.5,1 Purpose. Conduct annual CRM ground training and flight evaluation.

2.21.5.2 General. Completion of this stage meets the requirements for the annual CRM flight evaluation and ground training.

The CRM-6102 event may be logged in conjunction with any operational or training flight. However, it should be completed in conjunction with the annual NATOPS check, when possible.

CRM training and flight evaluations shall be logged in the individual NATOPS Flight Personnel Training/Qualification Jacket in section II, part C on enclosure (4). In addition to Section II part C entries, CRM flight evaluation shall be commented on in the remarks section of the NATOPS evaluation form when the flight is flown in conjunction with NTPS-6101. Additionally annual CRM flight evaluations shall be documented in the individual aircrew logbooks.

Crew Requirements. CRMF (CRMF Designated NSI)

Ground/Academic Training. IAW OPNAVINST 1542.7 series.

CRM-6005 1.0 365 R,SC,M Annual CRM Ground Training

Goal. Receive annual CRM training.

Requirement. IAW OPNAVINST 1542.7 series receive instruction in CRM history, Seven Critical Skills, OPNAVINST 1542.7 series and a T/M specific case study or scenario.

CRM-6102 0.0 365 R,SC,M (N) E 1 UH-1Y CRM EVAL

Goal. OS - Conduct an annual Crew Resource Management evaluation.

Requirement. Successfully conduct the evaluation IAW OPNAVINST 3710.7 and NATOPS. The evaluation should be conducted in conjunction with the annual NATOPS evaluation flight, when possible.

Performance Standards. IAW OPNAVINST 3710.7 and NATOPS



2.21.6 Functional Check Flight Pilot (FCP)

2.21.6.1 Purpose. To introduce, and develop proficiency in, and evaluate FCF procedures.

2.21.6.2 General. PUI shall demonstrate an understanding of, and proficiency in, the maintenance procedures involved in FCFs. PUI shall also demonstrate a detailed knowledge of aircraft systems and administrative maintenance procedures. Upon completion of FCP-6205 and with the AMO's recommendation, and at the discretion of the squadron commanding officer, a letter designating the PUI as a FCP shall be placed in the NATOPS jacket and APR.

Aircraft may be FMC or PMC.

PUI shall be a PQM prior to FCP-6205.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. Selected reading material from OPNAVINST 4790, UH-1Y NATOPS, SOPs, and MIMs as designated by each squadron commanding officer. PUI must also complete a locally generated FCP open and closed-book exams.

FCP-6006 1.0 \* R FCP Open Book Exam

Goal. Successful completion of the FCP open-book exam.

FCP-6007 1.0 \* R FCP Closed Book Exam

Goal. Successful completion of the FCP closed-book exam.

SFCP-6200 1.5 \* D FFS/FTD S/A 1 UH-1Y

Goal. OS - Demonstrate FCF procedures.

Requirements

Discuss

- ODO brief procedures
- FCF paperwork process
- ADB contents
- Crew requirements/authorized crewmembers
- Weather requirements
- Testing areas
- QA brief
- FCF profiles
- The proper completion of M-SHARP/NALCOMIS/OOMA paperwork following FCFs
- Emergency procedures during FCFs
- Structural vs. access panels
- Functional ground turn requirements
- The importance of proper pre-flights and post-flights

Demonstrate

- All items in the FCF Checklist
- If conducted in an aircraft, demonstrate IMD-HUMS procedures for main/tail rotor track & balance and vibration diagnostics

Performance Standards

IAW NATOPS, OPNAVINST 4790, and local SOPs.  
PUI shall demonstrate familiarity with systems, FCF checklists, procedures, and maneuvers while conducting an "A" profile.

Prerequisites. DESG-6300, FCP-6006, successful completion of FCP open book and readings

Crew. BIP+FCP/PUI/(CC)

SFCP-6201 1.5 \* D FFS/FTD S/A 1 UH-1Y

Goal. RS - Introduce FCF procedures.

Requirements

Discuss

Hydraulic samples  
Safe for flight items  
Engine rigging and trim adjustments  
DECU, HMU, and ODV operation  
Overspeed protection  
Ground/hover, in-flight, and maximum power assurance/checks  
Torque repeatability  
WOG initialization  
N<sub>R</sub> droop check  
Control motion transducer check

Introduce

All items in the FCF checklist  
If conducted in an aircraft, introduce IMD-HUMS procedures for main/tail rotor track & balance and vibration diagnostics  
In-flight procedures

Performance Standards

IAW NATOPS, OPNAVINST 4790, and local SOPs.  
PUI shall demonstrate familiarity with systems, FCF checklists, procedures, and maneuvers while conducting an "A" profile.

Prerequisite. SFCP-6200

Crew. BIP+FCP/PUI/CC

FCP-6202 1.5 \* D A 1 UH-1Y

Goal. OS - Introduce main rotor track & balance and vibration diagnostics.

Requirements

Discuss

IMD-HUMS procedures for main rotor track & balance  
Ground/in-flight vibration diagnostics  
Crew swap function  
Ground and flight regimes for rotor track and balance and vibration diagnostics  
Methods for obtaining & making corrections  
Use of optical tracker  
Autorotation RPM

Demonstrate/Introduce

Main rotor track & balance and vibration diagnostics

Performance Standards

IAW NATOPS, OPNAVINST 4790, and local SOPs.

PUI shall demonstrate familiarity with systems, FCF checklists, procedures, and maneuvers while conducting an "A" profile. This event may be combined with FCP-6203.

IAW NATOPS, PUI shall demonstrate knowledge and comprehension of main rotor track and balance/vibanal procedures. PUI must also observe track and balance/vibanal equipment installation and preflight, post-flight results, and subsequent adjustments.

Prerequisites. FCP-6201

Crew. BIP+FCP/PUI/CC

FCP-6203 1.5 \* R D A 1 UH-1Y

Goal. OS - Introduce tail rotor track & balance.

Requirements

Discuss

IMD-HUMS procedures for tail rotor track & balance  
Methods for obtaining & making corrections

Demonstrate/Introduce

Tail rotor track & balance

Performance Standards

IAW NATOPS, OPNAVINST 4790, and local SOPs.

PUI shall demonstrate familiarity with systems, FCF checklists, procedures, and maneuvers while conducting an "A" profile. This event may be combined with FCP-6202.

Prerequisite. FCP-6201

Crew. BIP+FCP/PUI/CC

SFCP-6204 1.5 \* R D FFS/FTD S/A 1 UH-1Y

Goal. RS - Review FCF procedures.

Requirements

Discuss

AMU Ground Station software  
Use of IMD-HUMS for viewing systems indications  
Shipboard FCF procedures  
MESM

Hydraulic samples, functional check flight (FCF) vs. functional ground turn (FGT) procedures and requirements, daily and turnaround inspections

Review

All FCF procedures  
Completion of track & balance and vibration diagnostics may be simulated

Performance Standards

IAW NATOPS, OPNAVINST 4790, and local SOPs.  
PUI shall demonstrate knowledge of systems, FCF checklists,  
procedures, and maneuvers while conducting an "A" profile.

Prerequisites. FCP-6203

Crew. BIP+FCP/PUI/(CC)

FCP-6205 1.5 \* R D E A 1 UH-1Y

Goal. RS - Conduct FCP Evaluation.

Requirements

Discuss

Any FCF procedure, regulation, SOP, or aircraft system

Evaluate

PUI on brief, FCF, and debrief procedures

Performance Standards

PUI shall conduct an "A" profile FCF. Completion of track & balance  
and vibration diagnostics may be simulated.

IAW NATOPS, OPNAVINST 4790, and local SOPs.

PUI shall demonstrate familiarity with systems, FCF checklists,  
procedures, and maneuvers while conducting an "A" profile.

Prerequisites. FCP-6007, 6204

Crew. BIP+FCP/PUI/CC

2.21.7 Pilot Qualified in Model (PQM)

2.21.7.1 Purpose. Tracking code for PQM.

2.21.7.2 General. Completion of the Core Skills Introduction Phase meets the  
requirements for the PUI to be PQM. Upon completion of the CSIX-1901, and  
the designation by the squadron commanding officer, a letter assigning the  
PUI as PQM shall be placed in the NATOPS jacket, APR and a proficiency code  
of DESG-6300 shall be logged.

Crew Requirements. As listed at the end of the event.

Ground/Academic Training. As outlined in Core Skills Introduction  
Phase.

DESG-6300 0.0 \* R (N) E A 1 UH-1Y

Goal. OS - Qualify the PUI as PQM.

Requirement. Completion of the Core Skills Introduction Phase.

Prerequisite. ACPM-8200, 8201, 8202, 8230, 8231, 8240, 8241, 8242,  
8250, CSIX-1901.

2.21.8 Utility Helicopter Commander (UHC)

2.21.8.1 Purpose. To qualify the PUI as a Utility Helicopter Commander (UHC).

2.21.8.2 General. Completion of the Core Skills Phase and the Mission Skills Phase meet the requirements for the PUI to be eligible for the UHC designation. Upon completion of the DESG-6398 event and a refly of SWD-2605 meeting Mission Skills ordnance accuracy standards, and at the discretion of the squadron commanding officer, a letter designating the PUI as a UHC shall be placed in the NATOPS jacket and APR.

The UHC evaluation shall be conducted as a separate flight as a wingman. The DESG-6398 shall be logged in conjunction with a previously flown Mission Skill Phase sortie for the evaluation flight.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of the event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

DESG-6398 1.5 \* R,SC (NS) E A 1 UH-1Y & 1 H-1

Goal. OS - To qualify the PUI as a Utility Helicopter Commander (UHC).

Requirements

Discuss

All aircraft ordnance and ASE systems

Review

Ordnance pre-flight checks  
All ordnance emergencies  
SWD and ordnance delivery profiles  
Knowledge of local range regulations  
SOPs for ordnance delivery

Performance Standards

PUI shall conduct cockpit debrief, with focus on weapons considerations.  
PUI shall demonstrate knowledge of local range regulations and SOPs for ordnance delivery.  
PUI shall demonstrate successful employment of crew served weapons at ranges 300-2000 meters and 2.75 inch rockets at ranges from 500-1200 meters, exhibiting proper impact detection and adjustment, while attaining Mission Skills accuracy standards.  
PUI shall exhibit a thorough understanding of all weapons systems and safely employ ordnance systems IAW UH-1Y NTTP/NTRP/NATOPS.  
PUI shall conduct cockpit debrief, assessing weapons switchology and accuracy using videotape review.  
For Series Conversion this event may be flown in conjunction with the last 3000 SC event as the completion of the 2000 and 3000 series conversion. The event must include night tactical landings to an unimproved location in addition to the performance standards listed above. Upon completion of this

event during the series conversion syllabus, all flight leadership and FAC(A) qualifications will convert.

Prerequisites. ACPM-8300, 8310, 8320 through 8326, 8340, 8350, 8351, DESG-6300, Core Skills Phase and Mission Skills Phase complete, refly of SWD-2605 IAW Mission Skills Phase ordnance accuracy standards (may be flown in conjunction with DESG-6398).

Ordnance. (14) 2.75 inch rockets, (600) .50 Cal GAU-21, (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range

Crew. WTO(NSI)/PUI/CC/AG

#### 2.21.9 Section Leader

2.21.9.1 Purpose. To prepare and evaluate a prospective section lead's ability to plan, brief, lead and debrief a section.

2.21.9.2 General. PUI shall conduct the following day and night workup sorties in order to develop the prospective section lead's flight leadership. At the discretion of the Commanding Officer, cross-cockpit instruction is authorized. SL-6498 shall be evaluated by a designated MAG Flight Lead Stan Evaluator (FLSE) from a different command within the MAG.

The IP will use the sortie requirement criteria to determine whether the PUI completed the sortie. The PUI will use the performance standards to debrief the flight. Completion of the SL syllabus meets the requirements for designation as a Section Leader. At the discretion of the squadron commanding officer, a letter designating the pilot as Section Leader shall be placed in the NATOPS jacket and APR.

In order to complete the Section Leader stage, two of the three flights shall be conducted with ordnance. One of the ordnance flights shall be conducted during the day and one shall be conducted at night. Consideration should be given to making the Section Lead check (SL-6498) an ordnance event.

At least one event shall be an assault support mission and at least one event shall be an OAS or escort mission.

At least one of the events shall be conducted with 2 UH-1Ys and at least one of the events shall be a mixed section.

PUI shall have a minimum of 50 hours as a designated UHC and three flights in wingman position as a designated UHC. Additionally, during the 50 hour prerequisite period, the PUI shall brief and lead a minimum of 2 sections, prior to beginning the section lead syllabus.

PUI shall be evaluated on ordnance delivery utilizing Core Skill Plus ordnance accuracy standards, paragraph 2.17.4, and navigational accuracy metrics utilizing Core Plus/Mission Plus Skills navigational accuracy standards, paragraph 2.17.5.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

SL-6400 1.5 \* D A 1 UH-1Y & 1 H-1

Goal. OS - Tactically employ a section in a low to medium threat environment during the conduct of a day OAS, escort or assault support mission. Emphasis shall be placed on safety, route planning, CRM critical skills, flight member responsibilities, threat counter-tactics, ASTACSOP, fuel management and communications.

Requirements

Plan, brief, lead and debrief a day OAS, escort, or assault support mission  
Develop a plan that supports the ground SOM and commander's intent of the supported unit  
Plan and brief section mechanics (objective area maneuver)  
Plan and brief section threat reactions  
Plan and brief rendezvous and join-up per ASTACSOP/NTTP and tactical situation  
Brief penetration/de-penetration/offensive checklist procedures  
Use all available planning tools to plan and brief route considerations, sensor acquisition, and target engagement  
Conduct a minimum of one section take-off and one section landing  
Maneuver section using appropriate formations and signals  
Conduct a rendezvous and join-up  
Demonstrate applicable threat counter-tactics  
Locate, plot and effectively engage target(s) with the appropriate assets (if applicable)  
Direct attacks against target(s)  
Control section during en route and objective area operations  
Delegate tasks within flight and cockpit  
Conduct the debrief, covering pertinent section specifics and learning points

Performance Standards

PUI shall brief IAW ASTACSOP/NTTP.  
PUI shall maintain situational awareness of wingman and mutual support during en route portion of flight and in the objective area.  
PUI shall effectively control the section throughout the flight.  
PUI shall locate targets in a timely manner.  
PUI shall engage target(s) using TTPs appropriate for the scenario.  
PUI shall minimize threat exposure and use appropriate threat counter-tactics.  
PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisites. Minimum of 50 hours as designated UHC and three flights in wingman position as a designated UHC. Additionally, during the 50 hour prerequisite period the PUI shall brief and lead a





PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisites. Minimum of 50 hours as designated UHC and three flights in wingman position as a designated UHC. Additionally, during the 50 hour prerequisite period the PUI shall brief and lead a minimum of 2 sections, prior to beginning the section lead syllabus.

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with appropriate LZ and thermally significant targets, if available

External Syllabus Support. One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)

Crew. NSI/PUI/CC/AO(AG)

SL-6498 2.0 \* R (NS) E A 1 UH-1Y & 1 H-1

Goal. OS - Tactically employ a section in a low to medium threat environment during the conduct of a day or night OAS, escort, or assault support mission. Emphasis shall be placed on safety, range regulations, mission planning, weapons effects/SDZs, PGM employment, identification of targets and friendly personnel, FARP operations, LZ operations, ASTACSOP and wingman awareness.

Requirements

- Plan, brief, lead and debrief a day OAS, escort, or assault support mission
- Develop a plan that supports the ground SOM and commander's intent of the supported unit
- Plan and brief section mechanics (objective area maneuver)
- Plan and brief section threat reactions
- Plan and brief rendezvous and join-up per ASTACSOP/NTTP and tactical situation
- Brief penetration/de-penetration/offensive checklist procedures
- Use all available planning tools to plan and brief route considerations, sensor acquisition, and target engagement
- Conduct a minimum of one section take-off and one section landing
- Maneuver section using appropriate formations and signals
- Conduct a rendezvous and join-up
- Demonstrate applicable threat counter-tactics
- Locate, plot and effectively engage target(s) with the appropriate assets (if applicable)
- Direct attacks against target(s)
- Control section during en route and objective area operations
- Delegate tasks within flight and cockpit
- Conduct the debrief, covering pertinent section specifics and learning points

Performance Standards

- PUI shall brief IAW ASTACSOP/NTTP.
- PUI shall maintain situational awareness of wingman and mutual support during en route portion of flight and in the objective area.
- PUI shall effectively control the section throughout the flight.
- PUI shall locate targets in a timely manner.
- PUI shall engage target(s) using TTPs appropriate for the scenario.
- PUI shall minimize threat exposure and use appropriate threat counter-tactics.
- PUI shall use TRANSEC/COMSEC for all communications.
- PUI shall adhere to local course rules and comply with applicable range regulations.
- PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisite. ACPM-8630, 8660, SL-6400, 6401

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with appropriate LZ

External Syllabus Support. One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)

Crew. FLSE/PUI/CC/AO(AG)

2.21.10 Division Leader (DL)

2.21.10.1 Purpose. To prepare and evaluate a prospective division lead's ability to plan, brief, lead and debrief a division.

2.21.10.2 General. PUI shall conduct the following day and night workup sorties in order to develop the prospective division lead's flight leadership. At the discretion of the Commanding Officer cross-cockpit instruction and mixed divisions are authorized.

The IP will use the sortie requirement criteria to determine whether the PUI completed the sortie. The PUI will use the performance standards to debrief the flight. Completion of the DL syllabus meets the requirements for designation as a 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.

In order to complete the Division Leader stage, two of the three flights shall be conducted with ordnance. One of the ordnance flights shall be conducted during the day and one shall be conducted at night. Consideration should be given to making the Division Lead check (DL-6598) an ordnance event.

At least one event shall be an assault support mission and at least one event shall be an OAS or escort mission.



PUI shall maintain situational awareness of wingmen and mutual support during en route portion of flight and in the objective area.  
PUI shall effectively control the division throughout the flight.  
PUI shall locate targets in a timely manner.  
PUI shall engage target(s) using TTPs appropriate for the scenario.  
PUI shall minimize threat exposure and use appropriate threat counter-tactics.  
PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisites. SL-6498, Lead a minimum of three flights as a designated Section Lead. Minimum of: 600 total hours, 200 rotary wing hours, and 50 hours in model.

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares.

Range Requirement. Live fire LASER safe range with appropriate LZ

External Syllabus Support. One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)

Crew. NSI+DL/PUI/CC/AO (AG).

DL-6501      1.5      \*      NS      A      1 UH-1Y & 2+ H-1s

Goal. OS - Tactically employ a division of in a medium to high threat environment during the conduct of a night OAS, escort mission or assault support mission. Emphasis should be placed on night formation considerations, sensor acquisition, flight member responsibilities, division lighting, ASTACSOP, division attacks, PGM employment and communication.

Requirements

Plan, brief, lead and debrief a night OAS, escort, or assault support mission  
Develop a plan that supports the ground SOM and commander's intent of the supported unit  
Plan and brief division mechanics (objective area maneuver)  
Plan and brief landing plan and fire support plan  
Plan and brief division threat reactions  
Use all available planning tools to plan and brief night considerations including illumination, shadowing, sensor effectiveness, and target acquisition/engagement/avoidance.  
Brief appropriate FAA and Tactical lighting configurations  
Conduct a minimum of one night division take-off and one night division landing  
Maneuver division using formations and tactics appropriate for ambient illumination  
Demonstrate applicable threat counter-tactics  
Locate, plot, and effectively engage target(s) with appropriate assets (if applicable)

Control division during en route and objective area operations  
Delegate tasks within flight and cockpit  
Conduct the debrief, covering pertinent division specifics and learning points

Performance Standards

PUI shall brief IAW ASTACSOP/NTTP.  
PUI shall maintain situational awareness of wingmen and mutual support during en route portion of flight and in the objective area.  
PUI shall effectively control the division throughout the flight.  
PUI shall locate targets in a timely manner.  
PUI shall engage target(s) using TTPs appropriate for the scenario.  
PUI shall minimize threat exposure and use appropriate threat counter-tactics.  
PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisite. SL-6498, Lead a minimum of three flights as a designated Section Lead. Minimum of: 600 total hours, 200 rotary wing hours, and 50 hours in model.

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares.

Range Requirement. Live fire LASER safe range with appropriate LZ and thermally significant targets, if available

Crew. NSI+DL/PUI/CC/AO(AG)

DL-6598 2.0 \* R (NS) E A 1 UH-1Y & 2+ H-1s

Goal. OS - Tactically employ a division in a low to medium threat environment during the conduct of a day or night OAS, escort or assault support mission. Emphasis should be placed on range regulations/procedures, control of fires, power available/maneuvering considerations, objective area mechanics, flight member responsibilities, arm/penetration/de-arm procedures, division attacks and communication.

Requirements

Plan, brief, lead and debrief a day OAS, escort, or assault support mission

Develop a plan that supports the ground SOM and commander's intent of the supported unit

Plan and brief division mechanics (objective area maneuver)

Plan and brief division threat reactions

Plan and brief rendezvous and join-up per ASTACSOP/NTTP and tactical situation

Brief penetration/de-penetration/offensive checklist procedures

Use all available planning tools to plan and brief route

considerations, sensor acquisition, and target engagement

Conduct division take-off/landing, scatter plan/rendezvous, and lost communication procedures  
Maneuver division using appropriate formations and signals  
Conduct a rendezvous and join-up  
Demonstrate applicable threat counter-tactics  
Locate, plot and effectively engage target(s) with the appropriate assets (if applicable)  
Direct attacks against target(s)  
Control division during en route and objective area operations  
Delegate tasks within flight and cockpit  
Conduct the debrief, covering pertinent division specifics and learning points

Performance Standards

PUI shall brief IAW ASTACSOP/NTP.  
PUI shall maintain situational awareness of wingmen and mutual support during en route portion of flight and in the objective area.  
PUI shall effectively control the division throughout the flight.  
PUI shall locate targets in a timely manner.  
PUI shall engage target(s) using TTPs appropriate for the scenario.  
PUI shall minimize threat exposure and use appropriate threat counter-tactics.  
PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.  
exposure and performs appropriate threat counter-tactics.

Prerequisite. ACPM 8640, 8641, DL-6500, DL-6501

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with appropriate LZ

External Syllabus Support. One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)

Crew. FLSE/PUI/CC/AO (AG)

2.21.11 Flight Leader (FL)

2.21.11.1 Purpose. To prepare and evaluate a prospective flight lead's ability to plan, brief, lead and debrief a flight.

2.21.11.2 General. PUI shall conduct the following day/night sortie in order to develop and evaluate the prospective flight lead's flight leadership. At the discretion of the Commanding Officer cross-cockpit instruction is authorized.

The IP will use the sortie requirement criterion to determine whether the PUI completed the sortie. The PUI will use the performance standards to debrief the flight. Completion of the Flight Leader syllabus

meets the requirements for designation as Flight Leader. At the discretion of the squadron commanding officer, a letter designating the pilot as flight leader shall be placed in the NATOPS jacket and APR.

PUI shall have led three flights as a designated Division Leader. PUI shall also have a minimum of 750 total flight hours.

The flight lead event should be an OAS, escort or assault support event.

PUI shall be evaluated on ordnance delivery utilizing Core Skill Plus ordnance accuracy standards, paragraph 2.17.4, and navigational accuracy metrics utilizing Core Plus/Mission Plus Skills navigational accuracy standards, paragraph 2.17.5.

Aircraft should be configured with an operable NTIS, crew served weapons, LTD/LRF, HMSD, VTR, APR-39, AAR-47, ALE-47 and IR Pointer (night events).

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog.

FL-6698 2.0 \* R (NS) E A 1 UH-1Y & 4+ H-1s

Goal. OS - Tactically employ a flight in a low to medium threat environment during the conduct of a day or night OAS, escort or assault support mission. Emphasis should be placed on ASTACSOP, flight/element integration, routing, objective area mechanics, flight member responsibilities, attack patterns and communication.

Requirements

- Plan, brief, lead and debrief a day OAS, escort, or assault support mission
- Develop a plan that supports the ground SOM and commander's intent of the supported unit
- Plan and brief flight mechanics (objective area maneuver)
- Plan and brief flight threat reactions
- Plan and brief rendezvous and join-up per ASTACSOP/NTTP and tactical situation
- Brief penetration/de-penetration/offensive checklist procedures
- Use all available planning tools to plan and brief route considerations, sensor acquisition, and target engagement
- Conduct flight take-off/landing, scatter plan/rendezvous, and lost communication procedures
- Maneuver flight using appropriate formations and signals
- Conduct a rendezvous and join-up
- Demonstrate applicable threat counter-tactics
- Locate, plot and effectively engage target(s) with the appropriate assets (if applicable)
- Direct attacks against target(s)
- Control flight during en route and objective area operations
- Delegate tasks within flight and cockpit
- Conduct the debrief, covering pertinent flight specifics and learning points

Performance Standards

PUI shall brief IAW ASTACSOP/NTP.  
PUI shall maintain situational awareness of wingmen and mutual support during en route portion of flight and in the objective area.  
PUI shall effectively control the flight throughout the mission.  
PUI shall locate targets in a timely manner.  
PUI shall engage target(s) using TTPs appropriate for the scenario.  
PUI shall minimize threat exposure and use appropriate threat counter-tactics.  
PUI shall use TRANSEC/COMSEC for all communications.  
PUI shall adhere to local course rules and comply with applicable range regulations.  
PUI shall debrief lessons learned and accurately analyze effectiveness of TTPs.

Prerequisites. ACAD-6060, 6061, ACPM-8620, DL-6598, PUI shall have lead three flights as a designated Division Leader. PUI shall also have a minimum of 750 total flight hours.

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available

External Syllabus Support. One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)

Crew. FLSE/PUI/CC/AG

#### 2.21.12 Air Mission Commander (AMC)

2.21.12.1 Purpose. To prepare and evaluate a prospective air mission commander's ability to plan, brief, and command an air component of an assault support or OAS mission.

2.21.12.2 General. AMC is designated in recognition of experience, demonstrated flight leadership ability and judgment. Work-up for this phase shall consist of completion of the division leader syllabus. Completion of the AMC-6798 meets the requirements for the PUI to be designated an AMC. At the discretion of the squadron commanding officer, a letter designating the PUI as an AMC shall be placed in the NATOPS jacket, APR and AMC-6798 shall be logged.

Crew Requirements. The AMC-6798 evaluation must be evaluated by a an AMC. There is no requirement for the PUI to conduct aircrew duties during the evaluation.

Ground/Academic Training. The PUI shall demonstrate mastery of OAS, assault support operations, MACCS and MAGTF integration.

AMC-6798    0.0    \*    R    (NS)    E    ANY AMC PLATFORM OR COC

Goal. OS - Conduct a day or night Air Mission Commander (AMC) check utilizing a MCTL-based mission and a tactical scenario.

Requirements



Plan, brief, lead, and debrief a multi-element, multi-T/M/S tactical mission in any threat environment utilizing at a minimum, one assault element and one RW or FW escort element.  
The AMCUI shall be evaluated on his/her ability to integrate the six functions of Marine Aviation and shall lead the mission from an airborne platform or COC (as appropriate).

#### Discuss

Problem framing and METT-TSL  
Marine Corps Planning Process (MCPPE)/Rapid Response Planning Process (R2P2)  
COA development and task delegation  
Six functions of Marine Aviation  
Aviation Ground Support (AGS) capabilities  
MACCS agencies, functions, and employment  
Threat planning considerations for multiple T/M/S aircraft  
GCE support considerations  
Objective area planning considerations  
Fire Support Coordination Measures (FSCMs)  
Fire support/supporting arms considerations and integration (e.g. indirect fires, CAS)  
RW and FW escort considerations and escort tactics  
Assault support considerations and tactics  
Contingency planning  
Immediate tasking  
Go vs. No-Go criteria  
Event vs. time driven mission execution  
Chain of responsibility and delegation of authority  
C&C platform considerations and Mission Control Area (MCA) selection  
Secure vs. active communications  
EMCON and radio procedures  
Information flow requirements  
Execution checklist utilization

#### Review

Tactical mission planning and briefing  
Command and control during a tactical mission

#### Performance Standards

The AMCUI shall conduct problem framing IAW MCWP 5-1.  
The AMCUI shall delegate mission tasks to the most advantageous asset/flight, Ensure coordination and supervision of key personnel during planning.  
The AMCUI shall develop a plan that integrates the six functions of Marine Aviation and AGS.  
The AMCUI shall develop a plan that fully supports the GCE scheme of maneuver and Essential Fire Support Tasks (EFSTs).  
The AMCUI conduct an AMC brief IAW NTTP series publications.  
The AMCUI maintain SA on mission progress/execution.  
The AMCUI maximize C&C platform capabilities.  
The AMCUI demonstrate proper decision making and task delegation in response to immediate missions and/or contingencies.  
The AMCUI demonstrate proper understanding and utilization of C4I to facilitate information flow and execution, RW and/or FW escort, secure and active communications, FSCM utilization and supporting arms, and contingency planning and execution.

The AMCUI possess the Tactical and operational knowledge required of an AMC.

Prerequisites. ACAD-6070, 6071, 6072, DL-6598

Ordnance (Optional). (7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares

Range Requirement. Live fire LASER safe range, as required

External Syllabus Support. GCE, MACCS agencies, AGS assets, multiple T/M/S RW and/or FW assets as required, and any other support required based on the Tactical scenario (HST, threat emitter/simulator)

Crew. AMC+FLSE/PUI

2.21.13 SPECIFIC OPERATIONS TRACKING CODES (6900)

2.21.13.1 Purpose. To provide a vehicle for Tracking Codes associated with specific operations. All codes will be logged (i.e. specialty weapons employment) in conjunction with the appropriately flown sortie.

2.21.13.2 General. Each pilot assigned to a squadron should complete at least one (1) of each applicable SOTC code during their first fleet tour.

Crew Requirements. As listed at the end of each event.

Ground/Academic Training. N/A.

SOTC-6900 \* R NS A 1 UH-1Y

Goal. OS - Track proficiency in shooting the 2.75 inch Illumination rocket (M-257/M-278)

Requirement. Shoot one (1) 2.75 inch illumination rocket

Ordnance. (1) 2.75 inch illumination rocket

Crew. NSI/PUI/CC/AG

SOTC-6901 \* R (NS) A 1 UH-1Y

Goal. OS - Track proficiency in shooting the 2.75 inch guided rocket (APKWS)

Requirement. Shoot one (1) 2.75 inch guided rocket

Ordnance. (1) 2.75 inch guided rocket

Crew. WTO(NSI)/PUI CC/AG

SOTC-6902 \* R (NS) A 1 UH-1Y

Goal. OS - Track proficiency in shooting the 2.75 inch flechette rocket

Requirement. Shoot one (1) 2.75 inch flechette rocket

Ordnance. (1) 2.75 inch guided rocket

Crew. WTO(NSI)/PUI/CC/AG

SOTC-6906 0.0 730 R (NS) A/S\*-TEN+ FFS/FTD 1 UH-1Y & H-1

Goal. OS - Track standardization in the conduct of FAC(A)

Requirement. Conduct one standardization FAC(A) sortie

Ordnance. As required

Crew. FAC(A) I/PUI/CC/AG

SOTC-6998 \* R, SC D A 1 UH-1Y

Goal. OS - Day autorotation tracking code.

Requirement. Conduct one daytime autorotation.

Ordnance. As required

Crew. BIP/PUI or PQM/PQM

SOTC-6999 \* R, SC NS A 1 UH-1Y

Goal. OS - NS autorotation tracking code.

Requirement. Conduct one NS autorotation.

Ordnance. As required

Crew. BIP/PUI or PQM/PQM

## 2.22 AVIATION CAREER PROGRESSION MODEL

2.22.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF and to ensure aviators possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. ACPM academic training requirements will be tracked and managed in M-SHARP. Commanding officers shall ensure the requisite ACPM training requirements have been met prior to designating flight leaders.

2.22.2 General. ACPM courseware is integrated into each Phase of instruction from 2000-6000. All ACPM courseware shall be completed prior to getting the culminating qualification for each phase.

8200 academics must be complete prior to PQM.

8300 academics must be complete prior to UHC.

8600 academics must be complete prior to each corresponding flight leadership stage.

The ACPM courseware can be found on the web sites listed below:

NIPR: <https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/default.aspx>  
Click on Academics, ACPM for general unclassified information.

SIPR: <http://www.mawts1.usmc.smil.mil/> Click on Departments, UH-1 for general information. Click on Click on Academics, ACPM for WTI classified and unclassified courseware. Click on ASP for Academic Support Package courseware and ACPM classes.

2.22.2.1 ACPM academic events, along with their identifying pre-requisite association with other training phases/stages/events are listed below.

AVIATION CAREER PROGRESSION MODEL	
TRAINING CODES	COURSEWARE
<b>CORE SKILL</b>	
ACPM-8200	MACCS Agencies, Functions, and Control of Aircraft and Missiles
ACPM-8201	MWCS Brief
ACPM-8202	ACA and Airspace
ACPM-8210	Aviation Ground Support
ACPM-8230	ACE Battle Staff
ACPM-8231	Battle Command Display
ACPM-8240	Six Functions of Marine Aviation
ACPM-8241	ASR/JTAR Introduction and Practical Application
ACPM-8242	Site Command Primer
ACPM-8250	Theater Air Ground System (TAGS)
<b>MISSION SKILL</b>	
ACPM-8300	Air Defense
ACPM-8310	Forward Arming Refueling Point (FARP) Operations
ACPM-8311	MTactical Fuel Systems
ACPM-8320	Jointairine Corps Structure and Joint Air Operations
ACPM-8321	Joint Air Tasking Cycle, Phase 1: Strategy Development
ACPM-8322	Joint Air Tasking Cycle, Phase 2: Target Development
ACPM-8323	Joint Air Tasking Cycle, Phase 3: Weaponneering and Allocation
ACPM-8324	Joint Air Tasking Cycle, Phase 4: Joint ATO Production
ACPM-8325	Joint Air Tasking Cycle, Phase 5: Force Execution
ACPM-8326	Joint Air Tasking Cycle, Phase 6: Combat Assessment
ACPM-8340	Integrating Fires and Airspace within the MAGTF
ACPM-8350	Phasing Control Ashore
ACPM-8351	TACRON Organizations and Functions
<b>SECTION LEADER</b>	
ACPM-8630	Tactical Air Command Center (TACC)
ACPM-8660	Joint Ops Intro
<b>DIVISION LEADER</b>	
ACPM-8640	Joint Data Network
ACPM-8641	MAGTF Theater and National ISR Employment
<b>FLIGHT LEADER</b>	
ACPM-8620	ESG/CSG Integration

At the completion of each ACPM event, the appropriate training code shall be logged in M-SHARP by the individual pilot, or squadron operations personnel, as appropriate.

ACPM events do not have re-fly intervals.

### 2.22.3 ACPM CORE SKILL TRAINING PHASE

2.22.3.1 Purpose. To provide and introduce basic integration of the ACE

within the MAGTF and ACE Battle Staff planning.

2.22.3.2 General. The PUI must be complete the ACPM-8200 series prior to PQM designation.

ACPM-8200 0.5 \* MACCS Agencies, Functions, and Control of Aircraft and Missiles

Learning Objectives

Understand the organization of the MACG and the agencies provided by the MACG that form the MACCS.

Understand the mission and tasks of the Tactical Air Command Center (TACC).

Understand the mission and tasks of the Tactical Air Operations Center (TAOC).

Understand the mission and tasks of marine Air Traffic Control (MATC) and the marine Air Traffic Control Mobile Team (MMT).

Understand the mission and tasks of the Direct Air Support Center (DASC).

Understand the mission and tasks of the Low Altitude Air Defense (LAAD) Battalion.

Understand the mission and tasks of the Marine Unmanned Aerial Vehicle (VMU) squadron.

Understand the mission and tasks of the Marine Wing Communication Squadron (MWCS).

ACPM-8201 0.5 \* MWCS Brief

Learning Objectives

From a list be able to identify the core competencies of the MWCS.

Without the aid of reference, describe the organization of the MWCS.

Without the aid of reference, identify key equipment used by the MWCS to support the MACCS.

ACPM-8202 0.8 \* ACA and Airspace

Learning Objectives

List the three fundamental principles of airspace command and control.

List and explain the three tenets of the integrated combat airspace command and control system.

Describe the responsibilities of the ACA.

Describe the responsibilities of the AMCT.

Understand the definitions of Air Direction and Air Control as well as the subsets of those two major categories.

List a variety of items encompassed within the ACP.

ACPM-8210 0.7 \* Aviation Ground Support

Learning Objectives

Identify the organization responsible for providing Aviation Ground Support (AGS) to the MAW.

Identify the four concepts for MAGTF Forward Operating Bases (FOBs).

Identify the five activities the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.  
Identify the four classifications of FOBs and state the distinguishing characteristics of each.  
Identify the fourteen functions of AGS.

ACPM-8230 1.0 \* ACE Battle Staff

Learning Objectives

To introduce and explain the Intel capabilities/products available to the ACE/MAGTF.  
To introduce ALSA comm. brevity terms.  
Introduce functions and responsibilities of ACE Battle Staff.

2.22.4 ACPM MISSION SKILL TRAINING EVENTS

2.22.4.1 Purpose. To provide and introduce basic integration of the ACE within the MAGTF and Joint environment.

2.22.4.2 General. The PUI must be complete the ACPM-8300 series prior to UHC designation.

ACPM-8300 0.8 \* Air Defense

Learning Objectives

Outline the principles of Air Defense.  
Understand the composition of an Integrated Air Defense System (IADS).  
Define Active and Passive Air Defense.  
Identify the (4) primary pillars of Passive Air Defense operations.

ACPM-8310 0.8 \* Forward Arming Refueling Point (FARP) Operations

Learning Objectives

State the mission and objective of a FARP.  
Explain the planning considerations of a FARP.  
Explain the techniques of employment.  
Describe the procedures necessary for movement of aircraft through a FARP and various layouts.

ACPM-8311 0.8 \* Marine Corps Tactical Fuel Systems

Learning Objectives

State the basic history of the Bulk Fuel community.  
Identify the four major fuel systems and their capabilities.  
State the job description of the Bulk Fuel Specialist.

ACPM-8320 1.0 \* Joint Structure & Joint Air Operations

Learning Objectives

Understand the criteria used by the Joint Force Commander (JFC) when selecting the Joint Forces Air Component Commander (JFACC).  
Understand the duties and responsibilities of the five divisions of Joint Air and Space Operations Center (JAOC).  
Know the types of sorties the MAGTF Commander must make available to the JFACC for tasking.  
Understand the primary responsibilities of the Area Air Defense Commander (AADC).  
Understand the purpose of the Airspace Control Order (ACO).  
Become familiar with the six phases of the Joint Air Tasking Cycle.

ACPM-8321 0.3 \* Joint Air Tasking Cycle Phase 1: Strategy Development

Learning Objectives

Understand how the JFC normally provides air apportionment guidance to the Joint Forces Air Component Commander (JFACC).  
Understand the air apportionment process.  
Understand who drafts the AOD and what the AOD provides the JAOC.  
Understand how objectives and tasks are prioritized.

Prerequisite. ACPM-8320.

ACPM-8322 0.3 \* Joint Air Tasking Cycle Phase 2: Target Development

Learning Objectives

Understand the purpose of the Joint Integrated Prioritized Target List (JIPTL).  
Understand the purpose for the joint targeting coordination board and its participants.  
Understand the target development process.  
Know the product of phase 2 of the joint air tasking cycle.  
Understand what provides the foundation for phase 2 of the joint air tasking cycle.

Prerequisite. ACPM-8321.

ACPM-8323 0.3 \* Joint Air Tasking Cycle Phase 3: Weaponing and Allocation

Learning Objectives

Understand weaponing and how it is conducted within the joint air tasking cycle.  
Understand the Allocation Request Message (ALLOREQ) and how it is used in producing the MAAP.  
Understand the air allocation process.  
Understand the purpose of the MAAP team and what is contained in the MAAP.  
Understand the purpose of the Sortie Allocation (SORTIEALLOT) message.

Prerequisite. ACPM-8322.

ACPM-8324 0.3 \* Joint Air Tasking Cycle Phase 4: Joint ATO Production

Learning Objectives

Understand the role of joint ATO production within the joint air tasking cycle.  
Understand the responsibilities of the joint ATO production team.  
Understand the processes used in the production of the joint air tasking order.  
Understand how TBMCS 1.1.3 is used to produce the joint air tasking order.

Prerequisite. ACPM-8323.

ACPM-8325 0.3 \* Joint Air Tasking Cycle Phase 5: Force Execution

Learning Objectives

Understand the primary functions and responsibilities of the AOC.  
Understand how the JAOC organizes for the execution phase.  
Understand how TBMCS 1.1.3 is used during the execution phase.

Prerequisite. ACPM-8324.

ACPM-8326 0.3 \* Joint Air Tasking Cycle Phase 6: Combat Assessment

Learning Objectives

Understand the three inter-related components of combat assessment.  
Understand the key factors concerning the three components of combat assessment.  
Understand the purpose of BDA based upon current doctrine.  
Understand physical damage, functional damage, and the target system assessment process.  
Understand the purpose of the re-attack recommendation.

Prerequisite. ACPM-8325.

ACPM-8340 0.5 \* Integrating Fires & Airspace within the MAGTF

Learning Objectives

List the (14) Fire Support Principles.  
Identify and discuss the (2) types of FSCMs.  
Identify where most of the fire support coordination occurs within the MAGTF.  
Discuss the purpose of ACMs.  
Discuss the need for integrating FSCMs and ACMs.  
Identify the required components of the JFA as an FSCM.  
Identify the differences between the JFA and GARS.

ACPM-8350 0.8 \* Phasing Control Ashore

Learning Objectives



Identify the Navy agency most akin to the LF FSCC.  
Identify what must be established ashore for control to be phased  
from the Navy TACC to the landing force.

ACPM-8351 1.0 \* TACRON Organizations and Functions

Learning Objectives  
TBD

ACPM-8231 1.0 \* Battle Command Display

Learning Objectives

Introduce the Battle Command Display.

ACPM-8240 1.7 \* Six Functions of Marine Aviation

Learning Objectives

To better understand the 6 functions of Marine Corps Aviation.

ACPM-8241 1.3 \* JTAR/ASR Introduction and Practical Application

Learning Objective

Understand the ATO cycle and the request process.  
Write a technically correct JTAR.  
Write a technically correct EW JTAR.  
Write a technically correct EARF.  
Write a technically correct ASR.  
Track submitted air requests using various web-based programs.  
Introduce the Automated Tracking System.

ACPM-8242 1.0 \* Site Commander Primer

Learning Objectives

Introduce fundamentals and functions of Site Command.

ACPM-8250 0.8 \* Theater Air Ground System (TAGS)

Learning Objectives

Identify the primary characteristics of TAGS.  
Identify the primary surveillance agency within the Theater Air  
Control System.  
Identify the element within the Army Air and Ground System  
responsible for integrating operational fires and synchronizing deep  
operations.  
Identify the element within the Navy's Tactical Air Control System  
responsible for coordinating power projection.  
Identify the commander within an amphibious task force who is  
subordinate to the Air Defense Commander (ADC) and responsible for  
the detection and engagement of hostile tracks in the AOA.

Identify the Marine Corps' contribution to overall Theater Air Ground System.

2.22.6 ACPM FLIGHT LEADERSHIP TRAINING EVENTS

2.22.6.1 Purpose. To provide the prospective flight leader the concepts of basic integration of the MAGTF within the Joint environment.

2.22.6.2 General. Completion of Flight Leadership Training Events is required prior to the following flight leadership designations:

Section Leader: ACPM-8630, ACPM-8660.

Division Leader: ACPM-8640, ACPM-8641.

Flight Leader: ACPM-8620.

However, the PUI does not need to be in a specific flight leader syllabus in order to receive 8600 level training events.

ACPM-8630 1.0 \* Tactical Air Command Center (TACC)

Learning Objectives

Without aid of references, identify the mission of the TACC.  
Without aid of references, identify the major tasks/duties of the TACC.  
Without aid of references, identify the three sections being supported by intelligence.  
Without aid of references, identify the key TACC personnel and their responsibilities.  
Without aid of references, identify the equipment associated with a full TACC capability.

ACPM-8660 0.4 \* Joint Ops Introduction

Learning Objectives

Understand Joint Operation Command relationships.  
Understand the main responsibilities for each Functional Component Commander.

ACPM-8620 1.0 \* ESG/CSG Integration

Learning Objectives

TBD

ACPM-8640 0.8 \* Joint Data Network

Learning Objectives

Understand the four components of the JDN.

Understand the differences between the Single Integrated Air Picture (SIAP), Common Tactical Picture (CTP), and Common Operational Picture (COP).

Understand the differences between Sensor Network(s), Joint Data Network (JDN), and Joint Planning Network (JPN).

Understand how the ACE builds its CTP and how information is shared throughout the ACE and the Marine Air Command and Control System (MACCS).

Know the primary system that will "tie in" the intelligence flow throughout the Marine Aviation Command and Control System (MACCS).

ACPM-8641 1.3 \* MAGTF Theater and National ISR Employment

Learning Objectives

Define priority intelligence requirement.

Identify basic tenets of the National Imagery Interpretability Rating Scale.

Recognize strengths and weaknesses of the EO, SAR, and IR sensors found on national satellites.

Know the three categories of SIGINT.

Identify the information requirements used in the UAS planning process.

Identify what effective planning of UAS employment involves.

Identify key planning considerations outlined for UAS employment.

Define "Non-Traditional ISR".

Identify the most common shortfalls on JTARS submitted for NTISR support.

Identify the most common shortfalls on JTARS submitted for ATARS support.

Identify different imagery products ATARS can provide

2.23 SYLLABUS EVALUATION FORMS. MAWTS-1, the syllabus sponsor, maintains and updates training and readiness gradesheets.

2.24 SYLLABUS MATRICES

2.24.1 General. The following matrices are provided in accordance with NAVMC 3500.14.

2.24.2 T&R Chaining. Event chaining allows for the completion of more complex and/or advanced events using the same skills to update proficiency status of events. Only events in a sequence entailing demonstration of equivalent skills shall be chained.

2.24.2.1 When a T&R event is logged, the proficiency dates of other T&R events (usually lower in number) may be updated. The T&R code that is logged is known as the "chaining code," and the updated codes are "chained codes." Chained codes are not always updated when a chaining code is logged.

2.24.2.2 Conditional Chaining. The following environmental conditions further specify which T&R codes are chain-updated:

Night Systems Optional. Chained codes annotated with a tilde after them, e.g. 2101~NS are only chain-updated if the chaining code is flown using night systems.

Light Level Optional. Chained codes annotated with a "~" and an 'NS' after them, e.g. 2101~NS are only chain-updated *if* the chaining code is flown using night systems during HLL. Chained codes annotated with a "~" and a 'LLL' after them, e.g. 2701~LLL are only chain-updated if the chaining code is flown using night systems during LLL.

2.24.3 Syllabus Event Conversion. The syllabus event conversion information is used to convert T&R syllabus event proficiency status of the previous T&R syllabus into event proficiency status of the current T&R for individuals.

2.24.4 Pilot T&R Syllabus Matrix

UH-1Y PILOT T&R SYLLABUS MATRIX

SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C or SIM	NETWORK	NUM-NET	REPLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC		#	TIME	#	TIME	#	TIME											
<b>CORE SKILL (2000 Phase)</b>																								
ACAD	ACAD	HMLA HQ/SINCGARS	2000	X				1.0					(N)		G				*			2000	2000	
	ACAD	ROC-V	2011	X				1.0					(N)		G				*			N/A	N/A	
	ACAD	H-1 Aerodynamics	2012	X				1.0					(N)		G				*			2012	2012	
	ACAD	Night Op Environment	2013	X				1.0					(N)		G				*			2013	2013	
	ACAD	NVG Sys & Image	2014	X				1.0					(N)		G				*			2014	2014	
	ACAD	Human Factors	2015	X				1.0					(N)		G				*			2015	2015	
	ACAD	FLIR Intro & Theory	2016	X				1.0					(N)		G				*			2016	2016	
	ACAD	NVG Components	2017	X				1.0					(N)		G				*			2017	2017	
	ACAD	NVG Misperceptions	2018	X				1.0					(N)		G				*			2018	2018	
	ACAD	Circadian Rythm	2019	X				1.0					(N)		G				*			2019	2019	
	ACAD	Night Ops & Planning	2020	X				1.0					(N)		G				*			2020	2020	
	ACAD	(S) Evasive Maneuvers	2021	X				1.0					(N)		G				*			2021, 3011	2021, 3011	
	ACAD	(S) HMLA ASE	2023	X	X			1.0					(N)		G						365	2023	2023	
	ACAD	UH-1 FLIR Employment	2042	X				1.0					(N)		G				*			2042	2042	
	ACAD	UH-1 Ordnance Delivery	2060	X				1.0					(N)		G				*			2060	2060	
ACAD	UH-1 Weapons Systems	2061	X				1.0					(N)		G				*			2061	2061		
ACAD	UH-1 Rockets	2062	X				1.0					(N)		G				*			2062	2062		
ACAD	(S) AGM-114 Hellfire	2063	X				1.0					(N)		G				*			2063	2063		
ACAD SKILL TOTAL								16	18.0	0	0.0	0	0.0											
TERF	TERF	Rev TERF	2100	X	X									D	OS	A	1				180	2100	2100	
	TERF	Rev NVD TERF HLL	2101R	X	X	X	X							NS	OS	A	1				180	2101	2101	
TERF SKILL TOTAL								0	0.0	0	0.0	2	4.0											
TCT	STCT	(S) Intro ASE RADAR	S2200	X							1.5			D	OS	S	1	S-TEN		*		2200	2200	
	STCT	(S) TAC Employ ASE	S2201R	X	X	X	X				1.5			(NS)	OS	S/A	2	S-TEN	2	365		2201	2201	
TCT SKILL TOTAL								0	0.0	2	3.0	0	0.0											
REC	SREC	(S) DAY Recce	S2300	X							1.5			D	OS	S/A	1	S-TEN		*		2300	2300	
	REC	NVD HLL Recce	2301R	X	X		X					1.5		NS	OS	A	2				120	2301	2301	
REC SKILL TOTAL								0	0.0	1	1.5	1	1.5											
ASPT	ASPT	Sec TAC Landing	2400	X							1.5			D	OS	A	2			*		2400	2400	
	ASPT	HLL Sec TAC Landing	2401	X							1.5			NS	OS	A	2			*		2401	2401	
	ASPT	Sec TAC Approaches	2402	X	X						1.5			D	OS	A	2			120		2400	2400	
	ASPT	HLL Sec TAC Approaches	2403R	X	X	X	X				1.5			NS	OS	A	2			120		2403	2403	
	ASPT	Externals	2404R	X	X		X				1.0			D	OS	A	1			730		4105	4105	
ASPT SKILL TOTAL								0	0.0	0	0.0	5	7.0											
FCLP	SFCLP	(S) Intro FCLP	S2500	X							1.5			D, NS, N*	OS	S	1	S-TEN		*		2500	2500	
	FCLP	Day FCLP	2501R	X	X						1.0			D	OS	A	1			365		2501	2501	
	FCLP	Night FCLP	2502R	X	X		X				1.0			NS, N*	OS	A	1			365		2502	2502	
FCLP SKILL TOTAL								0	0.0	1	1.5	2	2.0											
SWD	SSWD	(S) Rkt/Fixed Fwd Gu	S2600	X							1.5			D	OS	S	1	S-TEN		*		2600	2600	
	SWD	Rkt/Gun Delivery	2603	X							1.5			D	OS	A	1			*		2603	2603	
	SWD	Rkt/Gun Delivery	2604R	X	X						1.5			D	OS	A	2			180		2604	2604	
	SWD	Scored Tgt Delivery	2605R	X	X	X	X				1.5			D	OS	A	1			180	X	2605	2605	
	SSWD	(S) NVD HLL Rkt/Gun	S2606	X							1.5			NS	OS	S/A	1	S-TEN		*		2606	2606	
	SWD	NVD HLL Rkt/Gun	2607R	X	X	X					1.5			NS	OS	A	2			180		2607	2607	
	SSWD	(S) NVD LLL Ord Del	S2608	X	X	X					1.5			NS	OS	S/A	1	S-TEN		*		2608	2608	
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X				1.5			NS	OS	A	2			180		2609	2609	
	SWD	Intro Moving Tgt	2610R	X	X		X				1.5			(NS)	OS	A/S	1	S-TEN		365		4300	4300	
SWD SKILL TOTAL								0	0.0	3	4.5	7	9.0											
ANSQ	SANSQ	(S) NVD LLL A/C EPs	S2700	X							1.5			NS	RS	S	1	S-TEN		*		2700	2700	
	ANSQ	NVD LLL FAM/NAV	2701	X		X					2.0			NS	RS	A	1			*		2701	2701	
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X				1.5			NS	OS	A	2			180		2702	2702	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X				1.5			NS	OS	A	2			180		2703	2703	
ANSQ SKILL TOTAL								0	0.0	1	1.5	3	5.0											
FAM	FAM	FAM/INST Prof	2800	X	X	X	X				1.5			(NS)	OS	A	1			90		2800	2800	
	SFAM	(S) EP SIM	S2801R	X	X	X	X				1.5			(NS)	OS	S	1	S-TEN		90	X	X	2801	2801
FAM SKILL TOTAL								0	0.0	1	1.5	1	1.5											

UH-1Y PILOT T&R SYLLABUS MATRIX																						
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			ACAD/GRND	SIM		FLIGHT		COND	SEAT	TYPE	# A/C OF Sqn	NETWORK	NUM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC		#	TIME	#	TIME											
MISSION SKILLS (4000 Phase)																						
ACAD	ACAD	IPB	3000	X			1.0					(N)		G			*			2001	2001	
	ACAD	Problem Framing	3001	X			1.0					(N)		G			*			2005 3033	2005 3033	
	ACAD	ROE Planning	3002	X			1.0					(N)		G			*			3022	3022	
	ACAD	GCE Raid Planning	3003	X			1.0					(N)		G			*			3004	3004	
	ACAD	Execution Checklist	3004	X			1.0					(N)		G			*			3005	3005	
	ACAD	Objective Area Planning*	3005	X	X		1.0					(N)		G			365			2006 3034	2006 3034	
	ACAD	NEO Execution	3006	X			1.0					(N)		G			*			3007	3007	
	ACAD	Rapid Response Planning	3007	X			1.0					(N)		G			*			3008	3008	
	ACAD	(S) Radar Sur to Air Missiles	3008	X			1.0					(N)		G			*			2024	2024	
	ACAD	(S) REC Threat to the MAGTF	3009	X			1.0					(N)		G			*			2002	2002	
	ACAD	(S) IR SAM threat to RW Aircraft*	3010	X	X		1.0					(N)		G			365			2003	2003	
	ACAD	(S) ADA threat to RW Aircraft*	3011	X	X		1.0					(N)		G			365			2004	2004	
	ACAD	(S) LASER Threat	3012	X			1.0					(N)		G			*			3003	3003	
	ACAD	(S) Electronic Warfare	3013	X			1.0					(N)		G			*			3000	3000	
	ACAD	Assault Support Escort Tactics*	3019	X	X		1.0					(N)		G			365			3010 3024	3010 3024	
	ACAD	UH-1 Assault Support Planning	3023	X			1.0					(N)		G			*			3023	3023	
	ACAD	UH-1 Assault Support Execution	3024	X			1.0					(N)		G			*			N/A	N/A	
	ACAD	(S) RW OAS*	3030	X	X		1.0					(N)		G			365			3030	3030	
	ACAD	Urban CAS*	3031	X	X		1.0					(N)		G			365			3031	3031	
	ACAD	Close Air Support	3032	X			1.0					(N)		G			*			N/A	N/A	
ACAD	CAS STAN*	3033	X	X		1.0					(N)		G			365			N/A	N/A		
ACAD	(S) Weaponing	3034	X			1.0					(N)		G			*			N/A	N/A		
ACAD	HMLA AR and SCAR TTPs	3035	X			1.0					(N)		G			*			2303 3035	2303 3035		
ACAD	(S) Personnel Recovery	3038	X			1.0					(N)		G			*			3020	3020		
ACAD	(S) TRAP	3039	X			1.0					(N)		G			*			3021	3021		
ACAD	JFAC(A) Courseware*	3041	X	X		1.0					(N)		G			365			3041	3041		
ACAD	FAC(A) TTPs	3042	X			1.0					(N)		G			*			3042	3042		
ACAD	HMLA FARP Ops	3045	X			1.0					(N)		G			*			N/A	N/A		
ACAD SKILL TOTAL							28	28.0	0	0.0	0	0.0										
ESC	ESC	ASPT ESC	3100	X								D	OS	A	2		*			3101	3101	
	ESC	NVD ASPR ESC	3101R	X	X							NS	OS	A	2		365			3102	3102	
	SESC	(S) ASPR ESC	S3102R	X	X	X			1.5			(NS)	OS	S/A	2	S-TEN+	2	365		3102	3102	
	ESC	SFC ESC	3103R	X	X							(NS)	OS	A	2		*			3103	3103	
ANSQ	NVD LLL TACFORM/TERF	2702R	X	X	X																	
ESC SKILL TOTAL							0	0.0	1	1.5	3	4.5										
ASPT	ASPT	Fastrope/Rappel	3200	X	X							D	OS	A	1		365			3200	3200	
	ASPT	NVD Fastrope/Rappel	3201R	X	X	X						NS	OS	A	1		365			3201	3201	
	ASPT	Long Range Insert/Extract	3202	X								D	OS	A	2		*			3202	3202	
	ASPT	NVD Insert Extract	3203R	X	X	X	X					NS	OS	A	2			180		3203	3203	
	ASPT	Degraded Nav ASPT	3204R	X	X	X						NS	OS	A	2			365		3202	3202	
	SASPT	URBAN ASPT	S3205R	X	X	X			1.5			(NS)	OS	S/A	2	S-TEN+	2	365		3202	3202	
ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X																
3000 ASPT SKILL TOTAL							0	0.0	1	1.5	5	7.0										
AD	AD	Tac Load	3206	X		X						(NS)	OS	A	1		*			3205	3205	
	SAD	Aerial Delivery	3207R	X	X	X				1.5		NS	OS	S/A	2	S-TEN+	2	365		3205	3205	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X															
FALSE							1	1.0	1	1.5	1	0.0										
EVAC	EVAC	CASEVAC Trk Code	3208R	X	X	X						(NS)	OS	A	1		365			3204	3204	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X															
EVAC SKILL TOTAL							0	0.0	0	0.0	1	0.0										
CC	CC	C&C	3209R	X	X	X						(NS)	OS	A	1			730		3207	3207	
CC SKILL TOTAL							0	0.0	0	0.0	1	1.5										

UH-1Y PILOT T&R SYLLABUS MATRIX

SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C of SIM	NETWORK	NUM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC		#	TIME	#	TIME	#	TIME											
CAS	SCAS	(S) Intro CAS	3300	X					1.5				D/NS	OS	S	2	S-TEN+	2	*			3300	3300	
	CAS	Intro CAS	3301R	X	X	X	X				1.5		D	OS	A	2			180			3301	3301	
	CAS	Intro NVD CAS	3302	X		X					1.5		NS	OS	A	2			*			3302	3302	
	CAS	LLL CAS	3303R	X	X		X				1.5		NS	OS	A	2			180			3303	3303	
	CAS	URB CAS	3304R	X	X		X				1.5		(NS)	OS	A/S	2			365			4203	4203	
	SWD	NVD LLL ORD Rev	2609R	X	X	X	X																	
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																	
CAS SKILL TOTAL								0	0.0	1	1.5	3	6.0											
AR	AR	AR	3305R	X	X		X						(NS)	OS	A	2			365			3305	3305	
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X																	
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																	
AR SKILL TOTAL								0	0.0	0	0.0	1	1.5											
SCAR	SSCAR	(S) SCAR	33307R	X	X		X			1.5			(NS)	OS	S/A	2	S-TEN+	2	730					
	SWD	NVD LLL Ord Rev	2609R	X	X		X																	
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																	
SCAR SKILL TOTAL								0	0.0	1	1.5	0	0.0											
TRAP	TRAP	TRAP	3308R	X	X		X						(NS)	OS	A	2			365			3308	3308	
	SESC	(S) ASPR ESC	3102R	X	X		X																	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X																	
3000 TRAP TOTAL								0	0.0	0	0.0	1	1.5											
FAC (A)	FAC (A)	IDF Ctrl	3400R	X	X		X						(NS)	OS	A/S	1			365			3400	3400	
	FAC (A)	RW Ctrl Intro	3401R	X	X		X						(NS)	OS	A/S	2			365			3401	3401	
	FAC (A)	FW Ctrl Intro	3402R	X	X		X						D	OS	A/S	2			365			3402	3402	
	FAC (A)	NVD FW Ctrl Intro	3403R	X	X		X						NS	OS	A	2			365			3403	3403	
	FAC (A)	SPT Arms Cosolidate	3404R	X	X		X						(NS)	OS	A	2			365			3404	3404	
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X																	
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																	
FAC (A) SKILL TOTAL								0	0.0	0	0.0	5	7.5											
EXP	EXP	Day FARP Trk Code	3600	X									D	OS	A/S	1			*			3600	3600	
	EXP	NVD FARP Trk Code	3601R	X	X		X						NS	OS	A/S	1			180			3601	3601	
	EXP	Day RVLs	3602	X									D	OS	A/S	1			*			N/A	N/A	
	EXP	Night RVLs	3603R	X	X	X	X						NS	OS	A/S	1			120			N/A	N/A	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X																	
EXP SKILL TOTAL								0	0.0	0	0.0	4	0.0											
CORE PLUS (4000 Phase)																								
ACAD	ACAD	(S) Airborne Early Warning	4001	X					1.0				(N)		G				*			N/A	N/A	
	ACAD	Rev UH-1 Assault Support Planning	4010	X					1.0				(N)		G				*			3023	3023	
	ACAD	Rev UH-1 Assault Support Execution	4011	X					1.0				(N)		G				*			N/A	N/A	
	ACAD	Mountain Area Ops	4012	X					1.0				(N)		G				*			N/A	N/A	
	ACAD	Rev Raid Planning	4021	X					1.0				(N)		G				*			3004	3004	
	ACAD	Rev Problem Framing	4022	X					1.0				(N)		G				*			4022	4022	
	ACAD	Rev Urban CAS	4023	X					1.0				(N)		G				*			4021	4021	
	ACAD	Rev Obj Area Plng	4024	X					1.0				(N)		G				*			4024	4024	
	ACAD	Rev ROE Planning	4025	X					1.0				(N)		G				*			4020	4020	
	ACAD	Rev (S) RW OAS	4026	X					1.0				(N)		G				*			4023	4023	
	ACAD	Rev AR&SCAR TTPs	4027	X					1.0				(N)		G				*			3035	3035	
	ACAD	A/A Considerations	4030	X					1.0				(N)		G				*			4030	4030	
	ACAD	DACM Trng	4031	X					1.0				(N)		G				*			4031	4031	
	ACAD	DACM TAC Gameplan	4032	X					1.0				(N)		G				*			N/A	N/A	
	ACAD	(S) RW Threat to MAGTF	4033	X					1.0				(N)		G				*			4033	4033	
	ACAD	(S) Atck Helo Threat RW	4034	X					1.0				(N)		G				*			4034	4034	
	ACAD	(S) FW Threat to MAGTF	4035	X					1.0				(N)		G				*			4035	4035	
	ACAD	(S) FW Threat to RW	4036	X					1.0				(N)		G				*			4036	4036	
	ACAD	TACC	4050	X					1.0				(N)		G				*			4050	4050	
	ACAD	TAC (A) TTPs	4051	X					1.0				(N)		G				*			4051	4051	
ACAD SKILL TOTAL								20	20.0	0	0.0	0	0.0											

UH-1Y PILOT T&R SYLLABUS MATRIX																							
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND	SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NUM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC	MAINTAIN		#	TIME	#	TIME											
RIE	ASPT	Intro Para Ops	4100	X							1.0	(NS)		A	1			*			4100	4100	
	ASPT	Intro Water Insertion	4101	X							1.5	D		A	1			*			4101	4101	
	ASPT	Intro SPIE	4102	X	X		X				1.5	(NS)		A	1			365			4102	4102	
	SASPT	(S) MAT Intro	S4103	X						1.5		D		S/A	1	S-TEN			*		4103	4103	
	ASPT	MAT Rev	4104R	X	X		X					(NS)		A	1			365			4104	4104	
	SASPT	(S) Intro Hoist/SAR	S4105R	X	X	X	X			1.5		D		S/A	1	S-TEN			365		4105 4106	4105 4106	
	ASPT	Intro Sniper Ops	4107	X							1.5	(NS)		A	1			*			4107	4107	
	ASPT	(S) High Threat Insert	S4108R	X	X		X			1.5		(NS)		S/A	2	S-TEN+	2	730			N/A	N/A	
ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X																	
ASPT SKILL TOTAL								0	0.0	3	4.5	5	7.5										
ESC	ESC	Refine Armed ESC	4200R	X	X		X				1.5	(NS)		OS	A/S	2			730		4200	4200	
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X																
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																
ESC SKILL TOTAL								0	0.0	0	0.0	1	1.5										
CAS	CAS	Med to High CAS	4201R	X	X		X				1.5	(NS)		OS	A/S	2			730		N/A		
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X																
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																
CAS SKILL TOTAL								0	0.0	0	0.0	1	1.5										
SCAR	SSCAR	Med Hi Threat SCAR	S4207R	X	X		X			1.5		(NS)		OS	S/A	2			730		3307	3307	
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X																
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X																
SCAR SKILL TOTAL								0	0.0	1	1.5	0	0.0										
AAD	DACM	1v1 RW	4301	X			X				1.0	D		OS	A	1			*		4301	4301	
	DACM	2v1 RW	4302	X							1.0	D		OS	A	2			*		4302	4302	
	DACM	Rev 1v1/2v1 RW	4303R	X	X		X				2.0	D		OS	A	2			485		4303	4303	
	DACM	1v1 FW	4304	X							1.0	D		OS	A	1			*		4304	4304	
	DACM	2v1 FW	4305R	X	X		X				1.0	D		OS	A	2			485		4305	4305	
DACM SKILL TOTAL								0	0.0	0	0.0	5	6.0										
CBRN	SCBRN	(S) Protective Mask	S4400R	X	X		X			1.0		D/NS		OS	S/A	1	S-TEN		*		4400	4400	
CBRN SKILL TOTAL								0	0.0	1	1.0	0	0.0										
TAC(A)	TAC(A)	Conduct TAC(A) Proc	4500R	X	X		X				2.0	(NS)		OS	A	1			730		4500	4500	
TAC(A) SKILL TOTAL								0	0.0	0	0.0	1	2.0										
CQ	CQ	Day CQ	4600	X	X						1.0	D		OS	A	1			365		4600	4600	
	CQ	NVD CQ	4601R	X	X		X				1.0	NS		OS	A	1			365		4601	4601	
	CQ	Unaided CQ	4602	X	X						1.0	N*		OS	A	1			365		4602	4602	
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X																
CQ SKILL TOTAL								0	0.0	0	0.0	3	3.0										



UH-1Y PILOT T&R SYLLABUS MATRIX																								
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NUM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC		#	TIME	#	TIME	#	TIME											
INSTRUCTOR TRAINING (5000 PHASE)																								
ACAD	ACAD	Tgng Mngt	5001	X				1.0					(N)		G				*			5001	5001	
	ACAD	Inst Philosophy	5002	X				1.0					(N)		G				*			5002	5002	
	ACAD	Coach or Umpire	5003	X				1.0					(N)		G				*			5003	5003	
	ACAD	Student Trends	5004	X				1.0					(N)		G				*			5024	5024	
	ACAD	Briefing/Debriefing	5005	X				1.0					(N)		G				*			5025	5025	
	ACAD	Rev H-1 Aerodynamics	5011	X				1.0					(N)		G				*			5011	5011	
	ACAD	How to Write ATF	5012	X				1.0					(N)		G				*			5012	5012	
	ACAD	Instructional STAN	5013	X				1.0					(N)		G				*			5013	5013	
	ACAD	Rev TCT,REC,SWD,CAS	5020	X				1.0					(N)		G				*			5020	5020	
	ACAD	IUT Chalk Talk/Lectu	5021	X				1.0					(N)		G				*			5021	5021	
	ACAD	How to Give Quality	5022	X				1.0					(N)		G				*			5022	5022	
	ACAD	How to Build Scenari	5023	X				1.0					(N)		G				*			5023	5023	
	ACAD	UH-1Y IOS	5026	X				1.0					(N)		G				*			N/A	N/A	
	ACAD	TSI Introduction	5027	X				1.0					(N)		G				*			N/A	N/A	
ACAD	Tactical Simulator Scenarios	5028	X				1.0					(N)		G				*			N/A	N/A		
ACAD	NSI Presentation	5090	X				1.0					(N)		G				*			N/A	N/A		
ACAD SKILL TOTAL								16	16.0	0	0.0	0	0.0											
BIP	SBIP	(S) EP Standardization	S5100R	X	X				1.5				D	LS	S	1	S-TEN		*			5100	5100	
	SBIP	(S) FAM Maneuver Rev	S5101R	X	X				1.5				D	LS	S/A	1	S-TEN		*			5101	5101	
	SBIP	(S) INST Flt	S5102R	X	X				1.5				(N*)	LS	S/A	1	S-TEN		*			5102	5102	
	BIP	IUT FORM Flt Rev	5103	X						1.5			D	LS	A	2			*			5103	5103	
	BIP	Fam/TAC Lndg Maneuver	5104R	X	X	X					1.5		D	LS	A	2			*			5104	5104	
BIP SKILL TOTAL								0	0.0	3	4.5	2	3.0											
TERFI	STERFI	(S) TERF Maneuvers	S5110	X					1.5				D	LS	S/A	1	S-TEN		*			5110	5110	
	TERFI	TERF NAV	5111R	X	X						2.0		D	LS	A	1			*	X		5111	5111	
TERFI SKILL TOTAL								0	0.0	1	1.5	1	2.0											
WTO	SWTO	(S) Systems Rev	S5200R	X	X	X			1.5				D	OS	S	1	S-TEN		*			5200	5200	
	WTO	Sys Rev/Stan	5201R	X	X	X					1.5		(NS)	LS	A	2			*	X		5201	5201	
WTO SKILL TOTAL								0	0.0	1	1.5	1	1.5											
TSI	STSI	(S) Control POS SIM	S5210	X					1.5				D	CP	S	1	S-TEN		*			5210	5210	
	STSI	(S) Rev Sim Function	S5211R	X	X				1.5				D	CP	S	1	S-TEN+		*	X		5211	5211	
TSI SKILL TOTAL								0	0.0	2	3.0	0	0.0											
CSI	SCSI	(S) EP & FAM Maneuver	S5300	X		X			1.5				D	OS	S				365	X		5300	5300	
	SCSI	(S) INST Stan	S5301	X		X			1.5				(N*)	RS	S				365	X		5301	5301	
	SCSI	(S) Rev ASE IR	S5302	X		X			1.5				D	RS	S				365	X		5302	5302	
	SCSI	Rev Ord Delivery	S5303	X		X			1.5				D	RS	S				365	X		5303	5303	
CSI SKILL TOTAL								0	0.0	4	6.0	0	0.0											
FAC(A) I	FAC(A) I	FAC(A) I IUT	5400	X							1.5		(NS)		A	2			*			5400	5400	
	FAC(A) I	FAC(A) I Check	5401R	X	X						2.0		(NS)		A	2			*	X		5401	5401	
FAC(A) I SKILL TOTAL								0	0.0	0	0.0	2	3.5											
TAC(A) I	TAC(A) I	TAC(A) I Check	5700R	X	X						2.0		(NS)		A	1			*	X		5700	5700	
TAC(A) I SKILL TOTAL								0	0.0	0	0.0	1	2.0											
DACM(I)	DACM(I)	1v1/2v1 RW IUT	5800	X							2.0		D		A	2			*			5800	5800	
	DACM(I)	1v1/2v1 FW IUT	5801	X							2.0		D		A	2			*			5801	5801	
	DACM(I)	RW IUT Check	5802R	X	X						2.0		D		A	2			*	X		5802	5802	
	DACM(I)	FW IUT Check	5803R	X	X						2.0		D		A	2			*	X		5803	5803	
DACM(I) SKILL TOTAL								0	0.0	0	0.0	4	8.0											
NSSI	NSSI	FAM, Eps at Night	5500	X							2.0		NS		A	1			*			5500	5500	
	NSSI	CALs, MALs NVDs	5501	X							2.0		NS		A	1			*	X		5501	5501	
	NSSI	SAR Mission LLL	5502R	X	X						2.0		NS		A	1			*	X		5502	5502	
DACM(I) SKILL TOTAL SKILL TOTAL								1	0.0	1	0.0	3	4.0											

UH-1Y PILOT T&R SYLLABUS MATRIX																							
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN				ACAD/GRND	SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NFM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV
				B	R	SC	MAINTAIN		#	TIME	#	TIME											
NSI	NSI	NVD FAM	5900	X							2.0	NS		A	1			*			5900	5900	
	NSI	NVD Instructorship	55901	X						1.5		NS		S	1	S-TEN		*			5901	5901	
	NSI	NVD CAS	5902	X							2.0	NS		A	2			*			5902	5902	
	NSI	NVD ASPT	5903R	X	X						2.0	NS		A	2			*			5903	5903	
	NSI	NSI Standardization SIM	5904	X							1.5	NS		S	1	S-TEN		*		X	N/A	N/A	
	NSI	NSI Check	5905R	X	X						2.0	NS		A	2			*	X		5904	5904	
NSI SKILL TOTAL								0	0.0	2	3.0	4	6.0										
FLSE	FLSE	FLSE Evaluation	5920R	X	X						2.0	(NS)		OS	A	2		*	X		N/A	N/A	
	FLSE	FLSE Annual Training	5921	X	X	X	X			1.0		(N)		G				365	X		N/A	N/A	
FLSE SKILL TOTAL								1	1.0	0	0.0	1	2.0										
REQUIREMENTS, CERTIFICATIONS, DESIGNATIONS, AND QUALIFICATIONS (6000 PHASE)																							
ACAD	ACAD	Intel Prep Battlespace	6040	X					1.0			(N)		G				*			6040	6040	
	ACAD	MAGTF Tgt/Fire Spt	6041	X					1.0			(N)		G				*			6041	6041	
	ACAD	JTAC-Aircrew Integration	6042	X					1.0			(N)		G				*			N/A	N/A	
	ACAD	Rev ROE Planning	6050	X					1.0			(N)		G				*			6050	6050	
	ACAD	Rev Obj Area Plng	6051	X					1.0			(N)		G				*			6051	6051	
	ACAD	Rev (S)Weaponing	6052	X					1.0			(N)		G				*			6052	6052	
	ACAD	Rev (S)TRAP	6060	X					1.0			(N)		G				*			6060	6060	
	ACAD	Rev Execution Check1	6061	X					1.0			(N)		G				*			6061	6061	
	ACAD	Review R2P2	6070	X					1.0			(N)		G				*			6070	6070	
	ACAD	AMC	6071	X					1.0			(N)		G				*			6071	6071	
ACAD	Rev NEO Execution	6072	X					1.0			(N)		G				*			6072	6072		
ACAD SKILL TOTAL								11	11.0	0	0.0	0	0.0										
NTPS	NTPS	Open Book NATOPS	6002R	X	X	X	X		1.0			(N)		G				365	X		6001	6001	
	NTPS	Closed Book NATOPS	6003R	X	X	X	X		1.0			(N)		G				365	X		6002	6002	
	NTPS	Oral NATOPS Exam	6004R	X	X	X	X		1.0			(N)		G				365	X		6003	6003	
	NTPS	NATOPS Check	6101R	X	X	X	X				1.5	(N)	OS	A/S	1			365	X	X	6101	6101	
NTPS SKILL TOTAL								3	3.0	0	0.0	1	1.5										
INST	INST	INST Grnd Sch	6000R	X	X	X	X		8.0			(N)		G				365	X		6004	6004	
	INST	IGS Exam	6001R	X	X	X	X		1.0			(N)		G				365	X		6005	6005	
	INST	INST Check	6100R	X	X	X	X				1.5	(N*)	OS	A/S	1			365	X	X	6100	6100	
INST SKILL TOTAL								2	9.0	0	0.0	1	1.5										
CRM	CRM	CRM Ground Trng	6005R	X	X	X	X		1.0			(N)		G				365	X		6010	6010	
	CRM	CRM Eval Trk Code	6102R	X	X	X	X				0.0	(N)	OS	A	1			365	X	X	6110	6110	
CRM SKILL TOTAL										0	0.0	2	0.0										
FCP	FCP	FCP Open Book	6006R	X	X				1.0			(N)		G				*			6200	6200	
	FCP	FCP Closed Book	6007R	X	X				1.0			(N)		G				*			6201	6201	
	SFCP	(S) FCP Demo/Intro	S6200	X						1.5		D	OS	S	1			*			6200	6200	
	SFCP	(S) FCP Demo/Intro	S6201	X						1.5		D	RS	S/A	1			*			6201	6201	
	FCP	Intro MR Trk/Bal	6202	X							1.5	D	OS	A	1			*			6202	6202	
	FCP	Intro T/R Trk/Bal	6203R	X	X						1.5	D	OS	A	1			*			6203	6203	
	SFCP	(S) Rev FCP Proc	S6204R	X	X					1.5		D	RS	S/A	1			*			6204	6204	
	FCP	FCP Eval	6205R	X	X						1.5	D	RS	A	1			*	X		6205	6205	
FCP SKILL TOTAL								2	2.0	3	4.5	2	4.5										
DESG	DESG	PQM Eval Trk Code	6300R	X	X						0.0	(N)	OS	A	1			*	X		6300	6300	
	DESG	UHC EVAL	6398R	X	X	X					1.5	(NS)	OS	A	2			*	X		6398	6398	
DESG SKILL TOTAL								0	0.0	0	0.0	2	1.5										
SL	SL	SL Day	6400	X							1.5	D	OS	A	2			*			6400	6400	
	SL	Night SL	6401	X							1.5	NS	OS	A	2			*			6401	6401	
	SL	SL Eval	6498R	X	X						2.0	(NS)	OS	A	2			*	X		6498	6498	
SL SKILL TOTAL								0	0.0	0	0.0	3	5.0										
DL	DL	DL Day	6500	X							1.5	D	OS	A	3			*			6500	6500	
	DL	DL Night	6501	X							1.5	NS	OS	A	3			*			6501	6501	
	DL	DL Eval	6598R	X	X						2.0	(NS)	OS	A	3			*	X		6598	6598	
DL SKILL TOTAL								0	0.0	0	0.0	3	5.0										

UH-1Y PILOT T&R SYLLABUS MATRIX																																																			
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C OF SIM	NETWORK	NUM-NET	REFLY	EVAL	EOM	MIRROR	EVENT CONV																											
				B	R	SC		#	TIME	#	TIME	#	TIME																																						
FL	FL	FL Eval	6698R	X	X							2.0	(NS)	OS	A	5			*	X		6698	6698																												
FL SKILL TOTAL																							0	0.0	0	0.0	1	2.0																							
AMC	AMC	AMC Eval	6798R	X	X							0.0	(NS)	OS	A	1			*	X		6798	6798																												
AMC SKILL TOTAL																							0	0.0	0	0.0	1	0.0																							
SOTC	SOTC	Illum Rkt Prof	6900	X	X							0.0	NS	OS	A	1			*			6900	6900																												
	SOTC	Guided Rkt Prof	6901	X	X							0.0	(NS)	OS	A	1			*			6901	6901																												
	SOTC	Flechette Rkt Prof	6902	X	X							0.0	(NS)	OS	A	1			*			6902	6902																												
	SOTC	FAC(A) Stan track	6906	X	X							0.0	(NS)	OS	A	2			*	X		N/A	N/A																												
SOTC SKILL TOTAL																							0	0.0	0	0.0	4	0.0																							
AUTOTRK	A-TRK	AutoRotation Day	6998R	X	X	X						0.0	D	OS	A	1			*			6998	6998																												
	A-TRK	AutoRotation Night	6999R	X	X	X						0.0	N	OS	A	1			*			6999	6999																												
AUTOTRK SKILL TOTAL																							0	0.0	0	0.0	2	0.0																							
ACPM (8000 Phase)																																																			
ACPM	ACPM	MACCS AGENCIES	8200	X				1.0					(N)		G				*			8200	8200																												
	ACPM	MWCS BRIEF	8201	X				1.0					(N)		G				*			8201	8201																												
	ACPM	ACA AND AIRSPACE	8202	X				1.0					(N)		G				*			8202	8202																												
	ACPM	AVIATION GROUND SUPP	8210	X				1.0					(N)		G				*			8210	8210																												
	ACPM	ACE BATTLE STAFF	8230	X				1.0					(N)		G				*			8230	8230																												
	ACPM	BATTLE COMMAND DISPL	8231	X				1.0					(N)		G				*			8231	8231																												
	ACPM	SIX FUNCTIONS	8240	X				1.0					(N)		G				*			8240	8240																												
	ACPM	ASR/JIAR INTRO	8241	X				1.0					(N)		G				*			8241	8241																												
	ACPM	SITE COMMAND	8242	X				1.0					(N)		G				*			8242	8242																												
	ACPM	THEATER AIR GROUND S	8250	X				1.0					(N)		G				*			8250	8250																												
	ACPM	AIR DEFENSE	8300	X				1.0					(N)		G				*			8300	8300																												
	ACPM	FARP	8310	X				1.0					(N)		G				*			8310	8310																												
	ACPM	TACTICAL FUEL	8311	X				1.0					(N)		G				*			8311	8311																												
	ACPM	JOINT AIR OPERATIONS	8320	X				1.0					(N)		G				*			8320	8320																												
	ACPM	JATC PHASE 1	8321	X				1.0					(N)		G				*			8321	8321																												
	ACPM	JATC PHASE 2	8322	X				1.0					(N)		G				*			8322	8322																												
	ACPM	JATC PHASE 3	8323	X				1.0					(N)		G				*			8323	8323																												
	ACPM	JATC PHASE 4	8324	X				1.0					(N)		G				*			8324	8324																												
	ACPM	JATC PHASE 5	8325	X				1.0					(N)		G				*			8325	8325																												
	ACPM	JATC PHASE 6	8326	X				1.0					(N)		G				*			8326	8326																												
	ACPM	INTEGRATING FIRES	8340	X				1.0					(N)		G				*			8340	8340																												
	ACPM	PHASING CONTROL	8350	X				1.0					(N)		G				*			8350	8350																												
	ACPM	TACRON ORG	8351	X				1.0					(N)		G				*			8351	8351																												
ACPM	ESG/CSG INTEGRATION	8620	X				1.0					(N)		G				*			8620	8620																													
ACPM	TACC	8630	X				1.0					(N)		G				*			8630	8630																													
ACPM	JOINT DATA NETWORK	8640	X				1.0					(N)		G				*			8640	8640																													
ACPM	MAGTF THEATER	8641	X				1.0					(N)		G				*			8641	8641																													
ACPM	JOINT OPS INTRO	8660	X				1.0					(N)		G				*			8660	8660																													
ACPM SKILL TOTAL																							28	28.0	0	0.0	0	0.0																							

2.24.5 UH-1Y Pilot Prerequisite And Chaining Matrix

UH-1Y PILOT PREREQUISITE AND CHAINING						
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	PREREQUISITE NOTES	CHAINING
2000 PHASE						
ACAD	ACAD	HMLA HQ/SINCGARS	2000			
	ACAD	H-1 Aerodynamics	2012			
	ACAD	Night Op Environment	2013			
	ACAD	NVG Sys & Image	2014			
	ACAD	Human Factors	2015			
	ACAD	FLIR Intro & Theory	2016			
	ACAD	NVG Components	2017			
	ACAD	NVG Misperceptions	2018			
	ACAD	Circadian Rythm	2019			
	ACAD	Night Ops & Planning	2020			
	ACAD	(S) Evasive Maneuvers	2021			
	ACAD	(S) HMLA ASE	2023			
	ACAD	ROC-V	2011			
	ACAD	UH-1 FLIR Employment	2042			
	ACAD	UH-1 Ordnance Delivery	2060			
	ACAD	UH-1 Weapons Systems	2061			
	ACAD	UH-1 Rockets	2062			
ACAD	(S) AGM-114 Hellfire	2063				
TERF	TERF	Rev TERF	2100	2012		
	TERF	Rev NVD TERF HLL	2101R	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2100		2100
TCT	STCT	(S) Intro ASE RADAR	S2200	2021, 2023		
	STCT	(S) TAC Employ ASE	S2201R	2200	AC&NS-2010 AC-2100	AC-2100, AC&NS-2101
REC	SREC	(S) DAY Recce	S2300	2011, 2016, 2042	AC-2100	AC-2100
	REC	NVD HLL Recce	2301R	2101, 2300		2100, 2101
ASPT	ASPT	Sec TAC Landing	2400			
	ASPT	HLL Sec TAC Landing	2401	2400		
	ASPT	Sec TAC Approaches	2402	2400, 2100		
	ASPT	HLL Sec TAC Approaches	2403R	2401, 2402, 2101		2402
	ASPT	Externals	2404R	2100		
FCLP	SFCLP	(S) Intro FCLP	S2500			
	FCLP	Day FCLP	2501R	2500		
	FCLP	Night FCLP	2502R	2501		2501
SWD	SSWD	(S) Rkt/Fixed Fwd Gu	S2600	2060, 2061, 2062, 2200		
	SWD	Rkt/Gun Delivery	2603	2100, 2600		
	SWD	Rkt/Gun Delivery	2604R	2201, 2603		2201
	SWD	Scored Tgt Delivery	2605R	2604		2604
	SSWD	(S) NVD HLL Rkt/Gun	S2606	2604		AC-2604,
	SWD	NVD HLL Rkt/Gun	2607R	2101, 2606		2604
	SSWD	(S) NVD LLL Ord Del	S2608	2607,	NS-NSQ	AC-2604, AC-2607, AC-2702
	SWD	NVD LLL Ord Rev	2609R	2608, 2702		2604, 2607, 2701, 2702
	SWD	Intro Moving Tgt	2610R	2603, NS-2607, LLL~2603		2604, NS-2607, LLL~2609
ANSQ	SANSQ	(S) NVD LLL A/C EPs	S2700		NS-NSQ	2801
	ANSQ	NVD LLL FAM/NAV	2701	2700		
	ANSQ	NVD LLL TACFORM/TERF	2702R	2701		2100, 2101
	ANSQ	NVD LLL SEC LANDINGS	2703R	2701		2402, 2403
FAM	FAM	FAM/INST Prof	2800	1901		
	SFAM	(S) EP Sim	S2801R	1901		

UH-1Y PILOT PREREQUISITE AND CHAINING

SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	PREREQUISITE NOTES	CHAINING
				3000 PHASE		
ACAD	ACAD	IPB	3000			
	ACAD	Problem Framing	3001			
	ACAD	ROE Planning	3002			
	ACAD	GCE Raid Planning	3003			
	ACAD	Execution Checklist	3004			
	ACAD	Objective Area Planning*	3005			
	ACAD	NEO Execution	3006			
	ACAD	Rapid Response Planning	3007			
	ACAD	(S) Radar Guided Surface to Air Missiles	3008			
	ACAD	(S) REC Threat to the MAGTF	3009			
	ACAD	(S) IR SAM threat to RW A/C*	3010			
	ACAD	(S) ADA threat to RW Aircraft*	3011			
	ACAD	(S) LASER Threat	3012			
	ACAD	(S) Electronic Warfare	3013			
	ACAD	Assault Support Escort Tactics*	3019			
	ACAD	UH-1 Assault Support Planning	3023			
	ACAD	UH-1 Assault Support Execution	3024			
	ACAD	(S) RW OAS*	3030			
	ACAD	Urban CAS*	3031			
	ACAD	Close Air Support	3032			
ACAD	CAS STAN*	3033				
ACAD	(S) Weaponneering	3034				
ACAD	HMLA AR and SCAR TTPs	3035				
ACAD	(S) Personnel Recovery	3038				
ACAD	(S) TRAP	3039				
ACAD	JFAC(A) Courseware*	3041				
ACAD	JFAC(A) TTPs	3042				
ACAD	HMLA FARP Ops	3045				
ESC	ESC	ASPT ESC	3100	3008, 3009, 2600, 2604-ORD	ORD-2604	2604-ORD
	ESC	NVD ASFR ESC	3101	3010, 3011, 3100, 2403, LLL-2702	NS&ORD-2607 LLL&ORD-2609 NSQ-NS	2201, 2301, ORD-2604, LLL-702, NS&ORD-2607, LLL&ORD-2609
	SESC	(S) ASFR ESC	S3102R	3003, 3004, 3005, 3019, 3101, NS-2403, LLL-2702, NS-NSQ	NS&ORD-2607 LLL&ORD-2609	2201, AC&NS-2301, 3101, AC&LL-2702, AC&NS&ORD-2607, AC&LLL&ORD-2609
	ESC	SFC ESC	3103R	2600, NS-2403, LLL-2702, NS-NSQ	ORD-2604 NS&ORD-2607 LLL&ORD-2609	2201, NS-2301, LLL-2702, ORD-2604, NS&ORD-2607, LLL&ORD-2609
ASPT	ASPT	Fastrope/Rappel	3200R	2402		
	ASPT	NVD Fastrope/Rappel	3201R	3200, NS-2403, LLL-2703, NS-NSQ, LLL-ANSQ		LLL-2701, 3200
	ASPT	Long Range Insert/Extract	3202	2403, NS-NSQ	ORD-2604	2402
	ASPT	NVD Insert Extract	3203R	3202, 2403, 2703, NS-NSQ, LLL-ANSQ	NS&ORD-2607 LLL&ORD-2609	2301, 2402, 2403, LLL-2702, LLL-2703, 3202
	ASPT	Degraded Nav ASPT	3204R	3023, 3024, 3203, 2703, NS-NSQ, LLL-ANSQ	ORD&LLL-2609	2301, 2402, 2403, 2702, 2703, 3202, 3203
	SASPT	URBAN ASPT	S3205R	2600, 2403, 3202, 3203	AC&NS-NSQ AC&LLL-ANSQ AC&ORD-2604 NS&ORD-2607 LLL&ORD-2609 AC&LLL-2703	AC-2402, AC&NS-2403, AC-2402, AC&LLL-2702, AC&LLL-2703, AC-3202, AC&NS-3203
AD	AD	Tac Load	3206			
	SAD	Aerial Delivery	3207R	3202		AC-2402, AC&NS-2403, AC&LLL-2702, AC&LLL-2703, AC-3202
EVAC	EVAC	CASEVAC Trk Code	3208R	2400, NS-2403, LLL-2703		
CC	CC	C&C	3209R	2400, NS-2403, LLL-2703, NS-NSQ, LLL-ANSQ		2301
CAS	SCAS	(S) Intro CAS	S3300	3030, 3031, 3032, 3033, 2201, 2301, 2608		2201
	CAS	Intro CAS	3301R	3300		2201, 2604
	CAS	Intro NVD CAS	3302	LLL-2609, 2702, 3301		2201, 2301, 2604, 2607, 3301, LLL-2701, LLL-2702, LLL-2609
	CAS	LLL CAS	3303R	2609, 3302		2201, 2301, 2604, 2607, 2609, 2701, 2702, 3301, 3302
	CAS	URB CAS	3304R	3301, NS-3302, LLL-3303		3301, 2201, 2301, ORD-2604, LLL-2701, LLL-2702, ORD&NS-2607, ORD&LLL-2609, NS-3302, LLL-3303
AR	AR	AR	3305R	3030, 3035, 2702, NS-2607, LLL-2609		2100, NS-2101, 2201, NS-2301, 2604, LLL-2702, LLL-2703, NS-2607, LLL-2609

UH-1Y PILOT PREREQUISITE AND CHAINING						
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	PREREQUISITE NOTES	CHAINING
SCAR	SSCAR	(S) SCAR	S3307R	3030, 3035, 2702, 2608	AC&LLL-2609	AC-2100, AC&NS-2101, 2201, AC&NS-2301, AC-2604, AC&LLL-2701, AC&LLL-2702, AC&NS-2607, AC&LLL-2609, AC-3305
TRAP	TRAP	TRAP	3308R	3038, 3039, 2702, 3100, NS-3101	ORD-2604	NS-3101, ORD-2604, LLL-2701, LLL-2702, ORD&LLL-2609, ORD&NS-2607
FAC (A)	FAC (A)	IDF Ctrl	3400R	3041, 3042, 6300		
	FAC (A)	RW Ctrl Intro	3401R	6398, 3041, 3042		
	FAC (A)	FW Ctrl Intro	3402R	6398, 3041, 3042		
	FAC (A)	NVD FW Ctrl Intro	3403R	6398, 3041, 3042		3402
	FAC (A)	SPT Arms Cosolidate	3404R	3400, 3401, 3402, NS-3403		
EXP	EXP	Day FARP Trk Code	3600	3045, 8310, 8311, 2100		
	EXP	NVD FARP Trk Code	3601R	3045, 8310, 8311, 2101, LLL-2701		
	EXP	Day RVLs	3602	2100		
	EXP	Night RVLs	3603R	2101, LLL-2701, 2701		
4000 PHASE						
ACAD	ACAD	(S) Airborne Early Warning	4001			
	ACAD	Rev UH-1 Assault Support Planning	4010			
	ACAD	Rev UH-1 Assault Support Execution	4011			
	ACAD	Mountain Area Ops	4012			
	ACAD	Rev Raid Planning	4021			
	ACAD	Rev Problem Framing	4022			
	ACAD	Rev Urban CAS	4023			3031
	ACAD	Rev Obj Area Plng	4024			3005
	ACAD	Rev ROE Planning	4025			
	ACAD	Rev (S) RW OAS	4026			3030
	ACAD	Rev AR&SCAR TTPs	4027			
	ACAD	A/A Considerations	4030			
	ACAD	DACH Trng	4031			
	ACAD	DACH TAC Gameplan	4032			
	ACAD	(S) RW Threat to MAGTF	4033			
	ACAD	(S) Atck Helo Threat RW	4034			
	ACAD	(S) FW Threat to MAGTF	4035			
ACAD	(S) FW Threat to RW	4036				
ACAD	TACC	4050				
ACAD	TAC(A) TTPs	4051				
RIE	ASPT	Intro Para Ops	4100	2400, NS-2403, LLL-2703		
	ASPT	Intro Water Insertion	4101	2100, 2400		2100
	ASPT	Intro SPIE	4102	2400		
	SASPT	(S) MAT Intro	S4103	2400		
	ASPT	MAT Rev	4104R	2100, 4103, NS-2403, LLL-2701, NS-2101		LLL-2701, 2100, NS-2101
	SASPT	(S) Intro Hoist/SAR	S4105R	2100, 2400		
	ASPT	Intro Sniper Ops	4107	2400, 2600, NS-2403, LLL-2703, NS-NSQ, LLL-ANSQ		LLL-2701
ASPT	(S) High Threat Insert	S4108R	6498		2201, AC-2402, AC&NS-2403, AC-2402, AC&LLL-2703, AC-3202, AC&NS-3203, AC&LLL-3203	
ESC	ESC	Refine Armed ESC	4200R	6498		2100, NS-2101, 2201, NS-2301, 2604, NS-2607, 3301, NS-2702, NS-2609, NS-3302, LLL-3303
CAS	CAS	Med to High CAS	4201R	6498		2100, NS-2101, 2201, NS-2301, 2604, NS-2607, 3301, NS-2702, NS-2609, NS-3302, LLL-3303
SCAR	SSCAR	Med Hi Threat SCAR	S4207R	6498		3307, 2100-AC, 2101-NS+AC, 2201, 2301-NS, 2604-AC, 2701-LLL+AC, 2702-LLL+AC, 2607-NS+ AC, 2609-LLL+AC, 3305-AC
AAD	DACM	1v1 RW	4301	2101, 2201, 2300, 2600		2100
	DACM	2v1 RW	4302	4301		2100
	DACM	Rev 1v1/2v1 RW	4303R	3013, 4030, 4031, 4032, 4033, 4034, 4302		2100
	DACM	1v1 FW	4304	2101, 2201, 2300, 2600		2100
DACM	2v1 FW	4305R	4030, 4031, 4032, 4035, 4036, 4304		2100	
CBRN	SCBRN	(S) Protective Mask	S4400R		AC-2100 AC&NS-2101 AC&LLL-2701	2800
TAC (A)	TAC (A)	Conduct TAC (A) Proc	4500R	4050, 4051, 6498	FACA DESG	3209

UH-1Y PILOT PREREQUISITE AND CHAINING						
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	PREREQUISITE NOTES	CHAINING
CQ	CO	Day CO	4600	2501		2501
	CO	NVD CO	4601R	2502, 4600, 2403	NSQ	2501, 2502, 4600, 4602
	CO	Unaided CO	4602	4600, 2502		2501, 2502, 4600
5000 PHASE						
ACAD	ACAD	Tngg Mngt	5001			
	ACAD	Inst Philosophy	5002			
	ACAD	Coach or Umpire	5003			
	ACAD	Student Trends	5004			
	ACAD	Briefing/Debriefing	5005			
	ACAD	Rev H-1 Aerodynamics	5011			
	ACAD	How to Write ATF	5012			
	ACAD	Instructional STAN	5013			
	ACAD	Rev TCT, REC, SWD, CAS	5020			
	ACAD	IUT Chalk Talk/Lectu	5021			
	ACAD	How to Give Quality	5022			
	ACAD	How to Build Scenari	5023			
	ACAD	UH-1Y IOS	5026			
ACAD	TSI Introduction	5027				
ACAD	Factical Simulator Scenarios	5028				
ACAD	NSI Presentation	5090				
BIP	SBIP	(S) EP Standardization	S5100R	6398		2801
	SBIP	(S) FAM Maneuver Rev	S5101R	5100		AC-2800
	SBIP	(S) INST Flt	S5102R	5100		AC-2800
	BIP	IUT FORM Flt Rev	5103	5100		
	BIP	Fam/TAC Lndg Maneuve	5104R	5103		2402
TERFI	STERFI	(S) TERF Maneuvers	S5110	5101, 5102, 5104		AC-2800
	TERFI	TERF NAV	5111R	5011, 5012, 5013, 5110		2100
WTO	SWTO	(S) Systems Rev	S5200R	5111		
	WTO	Sys Rev/Stan	S201R	5020, 5021, 5022, 5023, 5200		2100, 2201, NS-2301, 2604, NS-2607, LLL-2609
TSI	STSI	(S) Control POS SIM	S5210	5026, 6398	BIP Syllabus	
	STSI	(S) Rev Sim Function	S5211R	5027, 5028, 5201, 5210		
CSI	SCSI	(S) EP & FAM Maneuve	S5300		Candidate CSI	
	SCSI	(S) INST Stan	S5301	5300	Candidate CSI	
	SCSI	(S) Rev ASE IR	S5302	1012	Candidate CSI	
	SCSI	Rev Ord Delivery	S5303		Candidate CSI	
FAC(A) I	FAC(A) I	FAC(A) I IUT	5400	6906, 5905		
	FAC(A) I	FAC(A) I Check	5401R	5400		
TAC(A) I	TAC(A) I	TAC(A) I Check	5700R	6906, 4500		4500
DACM (I)	DACH(I)	1v1/2v1 RW IUT	5800			
	DACH(I)	1v1/2v1 FW IUT	5801			
	DACH(I)	RW IUT Check	5802R	4303, 5201, 5800		2201, 4303
	DACH(I)	FW IUT Check	5803R	4305, 5201, 5801		2201, 4305
NSSI	NSSI	FAM, Eps at Night	5500	2703	SIP	2701
	NSSI	CALs, MALS NVDS	5501	5500		
	NSSI	SAR Mission LLL	5502R	5501	Acad complete	
NSI	NSI	NVD FAM	5900	5201		2100, 2101, 2502, 2701, 2702, 2800
	NSI	NVD Instructorship	S5901	5201		2201, 2801
	NSI	NVD CAS	5902	5201		2604, 2607, 2609, 2701, 2702, 3301, 3303
	NSI	NVD ASFT	5903R	5201		2402, 2403, 2701, 2702, 2703, 3202, 3203
	NSI	NSI Standardization SIM	5904	5900, 5901, 5902, 5903		2201, 2801
	NSI	NSI Check	5905R	5900, 5901, 5902, 5903		2402, 2403, 2604, 2607, 2609, 2701, 2702, 2703, 3202, 3203, 3301, 3303
FLSE	FLSE	FLSE Evaluation	5920R	5905, 6598		
	FLSE	FLSE Annual Training	5921	5920		

UH-1Y PILOT PREREQUISITE AND CHAINING						
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	PREREQUISITE NOTES	CHAINING
				6000 PHASE		
ACAD	ACAD	Intel Prep Battlespace	6040			
	ACAD	MAGTF Tgt/Fire Spt	6041			
	ACAD	JTAC-Aircrew Integration	6042			
	ACAD	Rev ROE Planning	6050			
	ACAD	Rev Obj Area Ping	6051			
	ACAD	Rev (S)Weaponneering	6052			
	ACAD	Rev (S)TRAP	6060			
	ACAD	Rev Execution Checkl	6061			
	ACAD	Review R2P2	6070			
	ACAD	AMC	6071			
NTPS	ACAD	Rev NEO Execution	6072			
	NTPS	Open Book NATOPS	6002R			
	NTPS	Closed Book NATOPS	6003R			
	NTPS	Oral NATOPS Exam	6004R			
INST	NTPS	NATOPS Check	6101R	6002, 6003		2800, 2801
	INST	INST Grnd Sch	6000R			
	INST	IGS Exam	6001R			
CRM	INST	INST Check	6100R	6000, 6001		
	CRM	CRM Ground Trng	6005R			
FCP	CRM	CRM Eval Trk Code	6102R			
	FCP	FCP Open Book	6006R			
	FCP	FCP Closed Book	6007R			
	SFCP	(S) FCP Demo/Intro	6200	6300, 6006		
	SFCP	(S) FCP Demo/Intro	6201	6200		
	FCP	Intro MR Trk/Bal	6202	6201		
	FCP	Intro T/R Trk/Bal	6203R	6201		
	SFCP	(S) Rev FCF Proc	6204R	6203		
DESG	FCP	FCP Eval	6205R	6204, 6007		
	DESG	PQM Eval Trk Code	6300R	1901, 8200, 8201, 8202, 8230, 8231, 8240, 8241, 8242, 8250		
SL	DESG	UHC EVAL	6398R	8300, 8310, 8320, 8321, 8322, 8323, 8324, 8325, 8326, 8340, 8350, 8351, 6300		
	SL	SL	6400			50hrs as UHC, 3 flights as wingman UHC, brief and lead 2 sections.
	SL	SL Day	6398			
DL	SL	Night SL	6401	6398		
	SL	SL Eval	6498R	6400, 6401, 8630, 8660		
	DL	DL	6500			Lead a min of three flights as SL. Minof: 600 tot hrs, 200 R/W hours, and 50 hours in model.
EL	DL	DL Day	6498			
	DL	DL Night	6501	6498		
	DL	DL Eval	6598R	6500, 6501, 8640, 8641		
AMC	EL	EL	6698R			Lead a min of three flights as a Div Lead. Minimum of 750 total hours.
	EL	EL Eval	6598, 6060, 6061, 8620			
SOTC	AMC	AMC Eval	6798R	6598, 6070, 6071, 6072		
	SOTC	Illum Rkt Prof	6900			
	SOTC	Guided Rkt Prof	6901			
	SOTC	Flechette Rkt Prof	6902			
AUTOTRK	SOTC	FAC (A) Stan track	6906	3400, 3401, 3402, 3403		
	A-TRK	AutoRotation Day	6998R			
	A-TRK	AutoRotation Night	6999R			



2.24.6 UH-1Y Pilot Ordnance And Range Matrix (2000-6000)



UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)														
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES
CORE SKILLS (2000 Phase)														
TERF	TERF	Rev TERF	2100	X	X						X	Authorized TERF route		
	TERF	Rev NVD TERF HLL	2101R	X	X	X	X				X	Authorized TERF route		
TCT	STCT	(S) Intro ASE RADAR	S2200	X										
	STCT	(S) TAC Employ ASE	S2201R	X	X	X	X	X	(60) chaff/flares	-AC	X	-AC EW range, live or non-live fire LASER safe range	X	-AC TRTG, remote radar emitter and IR stimulator support
REC	SREC	(S) DAY Recce	S2300	X							X	-AC authorized TERF area, LASER safe range	X	-AC thermally augmented threat vehicles
	REC	NVD HLL Recce	2301R	X	X		X				X	Authorized TERF area	X	Thermally augmented threat vehicles
ASPT	ASPT	Sec TAC Landing	2400	X										
	ASPT	HLL Sec TAC Landing	2401	X										
	ASPT	Sec TAC Approaches	2402	X	X									
	ASPT	HLL Sec TAC Approaches	2403R	X	X	X	X							
FCLP	ASPT	Externals	2404R	X	X		X						X	Helicopter Support Team (HST) and cargo
	SFCLP	(S) Intro FCLP	S2500	X										
	FCLP	Day FCLP	2501R	X	X								X	FCLP pad
	FCLP	Night FCLP	2502R	X	X		X						X	FCLP pad with shipboard lighting
GWD	SSWD	(S) Rkt/Fixed Fwd Gu	S2600	X										
	SWD	Rkt/Gun Delivery	2603	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240		X	Live fire and LASER safe range.		
	SWD	Rkt/Gun Delivery	2604R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240		X	Live fire LASER safe range with tactical targets		
	SWD	Scored Tgt Delivery	2605R	X	X	X	X	X	(14) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240		X	Raked or scored range, live fire LASER safe range		
	SSWD	(S) NVD HLL Rkt/Gun	S2606	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares, IR Pointer	-AC	X	-AC Live fire LASER safe range with thermally significant tactical targets		
	SWD	NVD HLL Rkt/Gun	2607R	X	X	X		X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares, IR Pointer		X	Live fire LASER safe range with thermally significant tactical targets		
	SSWD	(S) NVD LLL Ord Del	S2608	X		X		X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240	-AC	X	-AC Live fire LASER safe range with thermally significant tactical targets		
	SWD	NVD LLL Ord Rev	2609R	X	X	X	X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares, IR Pointer		X	Live fire LASER safe range with thermally significant tactical targets		
	SWD	Intro Moving Tgt	2610R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares, IR Pointer		X	Live fire and LASER safe range.	X	Moving target or 1 aircraft to provide a shadow
ANSQ	SANSQ	(S) NVD LLL A/C Eps	S2700	X										
	ANSQ	NVD LLL FAM/NAV	2701	X		X							X	Unlit field or remote landing site free from artificial illumination
	ANSQ	NVD LLL TACFORM/TERF	2702R	X	X		X				X	Authorized TERF area and route		
	ANSQ	NVD LLL SEC LANDINGS	2703R	X	X	X	X						X	Unlit field or remote landing site free from artificial illumination
FAM	FAM	FAM/INST Prof	2800R	X	X	X	X							
	SFAM	(S) EP Sim	S2801R	X	X	X	X							

UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)														
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES
<b>MISSION SKILLS (3000 Phase)</b>														
ESC	ESC	ASPT ESC	3100	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional. Required for one event in stage.	X	Live fire and LASER safe range.	X	One or more assault support aircraft
	ESC	NVD ASPT ESC	3101R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional. Required for one event in stage.	X	Live fire and LASER safe range.	X	One or more assault support aircraft
	SESC	(S) ASPT ESC	S3102R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	~AC	X	~AC Live fire and LASER safe range	X	Device operator. ~AC one or more assault support aircraft
	ESC	SFC ESC	3103R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional. Required for one event in stage.	X	Live fire LASER safe range	X	One ground/amphibious unit minimum 3 vehicles
ASPT	ASPT	Fastrope/Rappel	3200	X	X			X	(600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Simulated/actual rooftop or landing point (authorized fastrope/rappel site)	X	HRST Master and at least two ropers
	ASPT	NVD Fastrope/Rappel	3201R	X	X		X	X	(600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Simulated/actual rooftop or landing point (authorized fastrope/rappel site)	X	HRST Master and at least two ropers
	ASPT	Long Range Insert/Extract	3202	X				X	(600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Live fire and LASER safe range.	X	Embarked troops
	ASPT	NVD Insert Extract	3203R	X	X	X	X	X	(7) 2.75" Illumination, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Live fire and LASER safe range.	X	Embarked troops
	ASPT	Degraded Nav ASPT	3204R	X	X		X	X	(7) 2.75" Illumination, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Live fire and LASER safe range.	X	Embarked troops
	SASPT	URBAN ASPT	S3205R	X	X		X	X	(7) 2.75" Illumination, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	~AC	X	Live fire and LASER safe range.	X	Embarked troops
AD	AD	Tac Load	3206	X		X							X	Troops embarked (6 preferred) and actual cargo
	SAD	Aerial Delivery	3207R	X	X		X	X	(600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240	Optional.	X	Live fire and LASER safe range.	X	HST-AC
EVAC	EVAC	CASEVAC Trk Code	3208R	X	X		X	X			X			
CC	CC	C&C	3209R	X	X		X							
CAS	SCAS	(S) Intro CAS	S3300	X										
	CAS	Intro CAS	3301R	X	X	X	X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire and LASER safe range.	X	TACP
	CAS	Intro NVD CAS	3302	X		X		X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire and LASER safe range.	X	TACP
	CAS	LLL CAS	3303R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally significant tactical targets	X	TACP, 2 FW aircraft, and indirect fire assets
	CAS	URB CAS	3304R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional.	X	Live fire and LASER safe range.	X	JTAC with appropriate marking devices (if available), suitable urban environment or MOU facility
AR	AR	AR	3305R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally augmented targets		
SCAR	SSCAR	(S) SCAR	S3307R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	~AC	X	~AC Live fire LASER safe range with thermally significant tactical targets	X	FW or RW aircraft-AC
TRAP	TRAP	TRAP	3308R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional.	X	Live fire LASER safe range with thermally significant tactical targets	X	One or more assault aircraft required

UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)															
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES	
FAC(A)	FAC(A)	IDF Ctrl	3400R	X	X		X	X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	Optional	X	Live fire LASER safe range with thermally significant targets, if available	X	1 indirect fire asset (with 8 rounds)	
	FAC(A)	RW Ctrl Intro	3401R	X	X		X	X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally significant targets, if available	X	2 RW CAS aircraft with ordnance and ground maneuver unit with TACP	
	FAC(A)	FW Ctrl Intro	3402R	X	X		X	X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range	X	2 FW CAS aircraft with ordnance, prefer forward firing or unguided free-fall, ground maneuver unit with TACP	
	FAC(A)	NVD FW Ctrl Intro	3403R	X	X		X	X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally significant targets, if available	X	2 FW CAS aircraft with LASER guided, sensor guided or coordinate dependent ordnance and ground maneuver unit with TACP	
	FAC(A)	SPT Arms Consolidate	3404R	X	X		X	X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally significant targets, if available	X	2 FW CAS aircraft with ordnance, 1 indirect fire support asset or 1 section of RW aircraft with ordnance (separate from flight), ground maneuver unit with TACP	
EXP	EXP	Day FARP Trk Code	3600	X									X	Actual or simulated FARP	
	EXP	NVD FARP Trk Code	3601R	X	X		X						X	Actual or simulated FARP	
	EXP	Day RVLs	3602	X											
	EXP	Night RVLs	3603R	X	X	X	X								
CORE PLUS (4000 Phase)															
RIE	ASPT	Intro Para Ops	4100	X							X	Drop Zone or authorized paraops area	X	Jump Master and two jumpers (jump master may be one of the jumpers)	
	ASPT	Intro Water Insertion	4101	X							X	Water drop zone or authorized helocast area	X	Helocast Master and two swimmers (Helocast Master may be one of the swimmers)	
	ASPT	Intro SPIE	4102	X	X		X				X	Drop zone/landing zone or authorized SPIE area	X	HRST Master and two ropers	
	SASPT	(S) MAT Intro	S4103	X											
	ASPT	MAT Rev	4104R	X	X		X							X	
	SASPT	(S) Intro Hoist/SAR	S4105R	X	X	X	X								Appropriate external weight
	ASPT	Intro Sniper Ops	4107	X								X	Live fire range	X	Sniper personnel with or without ordnance
ASPT	(S) High Threat Insert	S4108R	X	X		X	X	(600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	-AC	X	Live fire range with at least one emitter	X	2 or more escort assets. EW aircraft (may be simulated)		
ESC	ESC	Refine Armed ESC	4200R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	-AC	X	LASER safe live fire range with thermally significant targets, if available	X	2 or more assault support aircraft	
CAS	CAS	Med to High CAS	4201R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	-AC	X	Live fire LASER safe range with thermally significant targets, if available	X	JTAC with appropriate marking devices (if available), suitable urban environment or MOUT facility	
SCAR	SSCAR	Med Hi Threat SCAR	S4207R	X	X		X	X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	-AC	X	Live fire LASER safe range	X	2 CAS aircraft	
AAD	DACM	1v1 RW	4301	X		X			(30) flares, TCTS pod (as required)		X		X	One adversary helicopter and appropriate air-to-air training area	
	DACM	2v1 RW	4302	X				X	(30) flares, TCTS pod (as required)		X		X	One adversary helicopter and appropriate air-to-air training area	
	DACM	Rev 1v1/2v1 RW	4303R	X	X		X	X	(60) flares and TCTS pod (as required)				X	One adversary helicopter and appropriate air-to-air training area	
	DACM	1v1 FW	4304	X				X	(30) flares, TCTS pod (as required)				X	One FW adversary and appropriate air-to-air training area	
	DACM	2v1 FW	4305R	X	X		X	X	(30) flares, TCTS pod (as required)				X	Two FW adversary and appropriate air-to-air training area	

UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)														
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES
CBRN	SCBRN	(S) Protective Mask	S4400R	X	X		X							
TAC(A)	TAC(A)	Conduct TAC(A) Proc	4500R	X	X		X				X	Range with tactical targets	X	MACCS (may be simulated), at least two CAS elements and 2 terminal controllers
CQ	CQ	Day CQ	4600	X	X								X	Landing platform afloat
	CQ	NVD CQ	4601R	X	X		X						X	Landing platform afloat
	CQ	Unaided CQ	4602	X	X								X	Landing platform afloat
INSTRUCTOR TRAINING (5000 Phase)														
BIP	SBIP	(S) EP Standardization	S5100R	X	X								X	Device operator
	SBIP	(S) FAM Maneuver Rev	S5101R	X	X								X	Device operator. FCLP pad-AC
	SBIP	(S) INST Flt	S5102R	X	X								X	Device operator
	BIP	IUT FORM Flt Rev	5103	X										
	BIP	Fam/TAC Lndg Maneuvers	5104R	X	X	X								
TERFI	STERFI	(S) TERF Maneuvers	S5110	X									X	Authorized TERF area -AC
	TERFI	TERF NAV	5111R	X	X								X	Authorized TERF route
WTO	SWTO	(S) Systems Rev	S5200R	X	X	X		X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares	-AC			X	Device operator
	WTO	Sys Rev/Stan	5201R	X	X	X		X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	LASER safe live fire range with thermally significant targets, if available		
TSI	STSI	(S) Control POS SIM	S5210	X										
	STSI	(S) Rev Sim Function	S5211R	X	X									
CSI	SCSI	(S) EP & FAM maneuvers	S5300	X			X							
	SCSI	(S) INST Stan	S5301	X			X							
	SCSI	(S) Rev ASE IR	S5302	X			X							
	SCSI	Rev Ord Delivery	S5303	X			X							
FAC(A) I	FAC(A) I	FAC(A) I IUT	5400	X				X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares					
	FAC(A) I	FAC(A) I Check	5401R	X	X			X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares					
TAC(A) I	TAC(A) I	TAC(A) I Check	5700R	X	X									
DACM(I)	DACM(I)	1v1/2v1 RW IUT	5800	X										
	DACM(I)	1v1/2v1 FW IUT	5801	X										
	DACM(I)	RW IUT Check	5802R	X	X									
	DACM(I)	FW IUT Check	5803R	X	X									
NSSI	NSSI	FAM, Eps at Night	5500	X										
	NSSI	CALs, MALS NVDS	5501	X										
	NSSI	SAR Mission LLL	5502R	X	X									

UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)														
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES
NSI	NSI	NVD FAM	5900	X										
	NSI	NVD Instructorship	55901	X										
	NSI	NVD CAS	5902	X										
	NSI	NVD ASPT	5903R	X	X									
	NSI	NSI Standardization SIM	5904	X										
	NSI	NSI Check	5905R	X	X									
FLSE	FLSE	FLSE Evaluation	5920R	X	X									
	FLSE	FLSE Annual Training	5921	X	X									
REQUIREMENTS, CERTIFICATIONS, DESIGNATIONS, AND QUALIFICATIONS (6000 Phase)														
NTPS	NTPS	Open Book NATOPS	6002R	X	X	X	X							
	NTPS	Closed Book NATOPS	6003R	X	X	X	X							
	NTPS	Oral NATOPS Exam	6004R	X	X	X	X							
	NTPS	NATOPS Check	6101R	X	X	X	X							
INST	INST	INST Grnd Sch	6000R	X	X	X	X							
	INST	IGS Exam	6001R	X	X	X	X							
	INST	INST Check	6100R	X	X	X	X							
CRM	CRM	CRM Ground Trng	6005R	X	X	X	X							
	CRM	CRM Eval Trk Code	6102R	X	X	X	X							
FCP	FCP	FCP Open Book	6006R	X	X									
	FCP	FCP Closed Book	6007R	X	X									
	SFCP	(S) FCP Demo/Intro	6200	X										
	SFCP	(S) FCP Demo/Intro	6201	X										
	FCP	Intro MR Trk/Bal	6202	X										
	FCP	Intro T/R Trk/Bal	6203R	X	X									
	SFCP	(S) Rev FCP Proc	6204R	X	X									
	FCP	FCP Eval	6205R	X	X									
DESG	DESG	PQM Eval Trk Code	6300R	X	X									
	DESG	UHC EVAL	6398R	X	X	X		X	(14) 2.75 inch rockets, (600) .50 Cal GAU-21, (400) 7.62mm M-240, (60) chaff/flares		X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available		

UH-1Y PILOT ORDNANCE, RANGE, AND EXTERNAL SYLLABUS SUPPORT REQUIREMENTS (2000-6000 Phase)														
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MAINTAIN	ORDNANCE	ORDNANCE QUANTITY	ORDNANCE NOTES	RANGE	RANGE NOTES	EXT SYL SUPPORT	EXTERNAL SYLLABUS NOTES
SL	SL	SL Day	6400	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
	SL	Night SL	6401	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
	SL	SL Eval	6498R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
DL	DL	DL Day	6500	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
	DL	DL Night	6501	X				X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
	DL	DL Eval	6598R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional. 2/3 EVENTS REQUIRE ORDNANCE	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
FL	FL	FL Eval	6698R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional.	X	Live fire LASER safe range with appropriate LZ and thermally significant tactical targets, if available	X	One or more assault support aircraft (if escort mission) and embarked troops (if available, for assault support mission)
AMC	AMC	AMC Eval	6798R	X	X			X	(7) 2.75 inch rockets, (600) .50 Cal GAU-21, (1500) 7.62 GAU-17 or (400) 7.62mm M-240, (60) chaff/flares	Optional.	X	Live fire LASER safe range, as required	X	GCE, MACCS agencies, AGS assets, multiple T/M/S RW and/or FW assets as required, and any other support required based on the Tactical scenario (HST, threat emitter/simulator)
SOTC	SOTC	Illum Rkt Prof	6900	X	X			X	(1) 2.75 inch illumination rocket					
	SOTC	Guided Rkt Prof	6901	X	X			X	(1) 2.75 inch guided rocket					
	SOTC	Flechette Rkt Prof	6902	X	X			X	(1) 2.75 inch guided rocket					
	SOTC	FAC(A) Stan track	6906	X	X			X	(7) RP 2.75 inch rockets, (600) .50 Cal GAU-21, (3000) 7.62mm GAU-17, or (400) 7.62mm M240, (60) chaff/flares		X	Live fire LASER safe range with thermally significant targets, if available	X	2 FW CAS aircraft with ordnance, 1 indirect fire support asset or 1 section of RW aircraft with ordnance (separate from flight), ground maneuver unit with TACP



UH-1Y PILOT FLEET REPLACEMENT SQUADRON (FRS) (1000 & 5000 Phase)

SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MR	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NUM-NET	REFLY	PREREQUISITE	PREREQUISITE NOTES	MIRROR	EVENT CONV
								#	TIME	#	TIME	#	TIME											
ACADEMICS (ACAD)																								
ACAD	ACAD	LAU	1000	X				1.0					(N)		G				*					
	ACAD	CBT	1001	X				1.0					(N)		G				*					
	ACAD	W&P	1002	X				1.0					(N)		G				*					
	ACAD	OTO	1003	X				1.0					(N)		G				*					
	ACAD	CRM	1004	X				1.0					(N)		G				*					
	ACAD	AWE	1005	X				1.0					(N)		G				*					
	ACAD	FAM	1006	X				1.0					(N)		G				*					
	ACAD	INST	1007	X				1.0					(N)		G				*					
	ACAD	FORM	1008	X				1.0					(N)		G				*					
	ACAD	TERF	1009	X				1.0					(N)		G				*					
	ACAD	NAV	1010	X				1.0					(N)		G				*					
	ACAD	NVD LAB	1011	X				1.0					(N)		G				*					
	ACAD	TCT/ASE	1012	X				1.0					(N)		G				*					
	ACAD	SWD	1013	X				1.0					(N)		G				*					
ACAD	ASPT	1014	X				1.0					(N)		G				*						
ACAD TOTAL								15	15.0	0	0.0	0	0.0											
FAMILIARIZATION (FAM)																								
FAM	FAM	Demo Pre/Post Flt	1100	X							1	0.0	D		A	1			*	1000,1002,1003			1101	
	FAM	Pre/Post Flt	1101R	X	X	X	X				1	0.0	D		A	1			*	1100			1102	
	SFAM	Checklist	1102R	X	X		X				1.5		D	RS	S	1			*	1004,1005,1006			1103	
	FAM	CRS Rules/FAM	1103	X								2.0	D	RS	A	1			*	1101,1102				
	SFAM	Intro FAM	S1104R	X	X	X	X				1.5		D	RS	S	1	S-TEN		*	1202,1500			1105	
	FAM	Intro FAM	1105R	X	X	X	X					2.0	D	RS	A	1			*	1104				
	SFAM	Intro EPs	S1106	X							1.5		D	RS	S	1	S-TEN		*	1105			1106	
	SFAM	Intro EPs	S1107	X							1.5		D	OS	S	1	S-TEN		*	1106				
	FAM	Review EP/FAM	1108	X								2.0	D	RS	A	1			*	1106			1107	
	FAM	Review FAM	1109	X		X						2.0	D	LS	A	1			*	1107,1108			1108	
	SFAM	Review EPs	S1110R	X	X	X	X				1.5		D	OS	S	1	S-TEN		*	1109	CRM annual training complete		1109	
	FAM	Review FAM/EP	1111	X								2.0	D	RS	A	1			*	1109			1110	
	SFAM	Eval EPs	S1112	X		X					1.5		D	RS	S	1	S-TEN		*	1110,1111				
	FAM	Review FAM/EP	1113R	X	X	X	X					2.0	D	RS	A	1			*	1112			1111	
	FAM	Eval FAM	1114R	X	X	X	X					2.0	D	RS	A	1			*	1113				
	SFAM	NVD FAM	S1115	X		X					1.5		NS	RS	S	1	S-TEN		*	1011,1205			1113	
	SFAM	NVD EPs	S1116	X							1.5		NS	RS	S	1	S-TEN		*	1115			1114	
FAM	Review NVD FAM	1117	X								2.0	NS	RS	A	1			*	1116			1115		
FAM	Eval FAM/EPs	1118R	X	X	X	X					2.0	NS	RS	A	1			*	1117			1116		
FAM TOTAL								0	0.0	8	12.0	11	18.0											

UH-1Y PILOT FLEET REPLACEMENT SQUADRON (FRS) (1000 & 5000 Phase)

SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MR	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NUM-NET	REFLY	PREREQUISITE	PREREQUISITE NOTES	MIRROR	EVENT CONV					
								#	TIME	#	TIME	#	TIME																
INSTRUMENTS (INST)																													
INST	SINST	Intro BI	S1200	X						1.5			(N*)	OS	S	1	S-TEN		*	1007,1103			1200						
	SINST	Review BI	S1201	X						1.5			(N*)	RS	S	1	S-TEN		*	1200									
	INST	Intro BI	1202	X								2.0	(N)	RS	A	1			*	1201			1201						
	INST	Intro INST NAV	1203	X								2.0	(N*)	RS	A	1			*	1007,1114			1202						
	INST	Review INST	1204R	X	X	X	X					2.0	(N*)	RS	A	1			*	1203			1203						
	SINST	Eval INST Flt	S1205R	X	X	X	X				1.5			(N)	OS	S	1	S-TEN		*	1204			1204					
INST TOTAL								0	0.0	3	4.5	3	6.0																
FORMATION (FORM)																													
FORM	SFORM	Intro FORM	S1300	X						1.5			D	OS	S	2	S-TEN+	2	*	1008,1205			1300						
	FORM	Intro FORM/TACFORM	1301R	X	X						2.0		D	OS	A	2			*	1300,1801			1301						
	FORM	Intro Div/FORM	1302	X							2.0		D	OS	A	3			*	1301			1302						
	FORM	Intro NVD FORM	1303R	X	X		X				1.5		NS	OS	A	2			*	1301,1802			1303						
	FORM	FORM Eval	1304	X							2.0		D	OS	A	2			*	1302,1303									
FORM TOTAL								0	0.0	1	1.5	4	7.5																
TERRAIN FLIGHT (TERF)																													
TERF	TERF	Intro TERF	1400	X							2.0		D	OS	A	1			*	1009,1205	1301~SECTION		1400						
	TERF	Intro NVD TERF	1401	X							2.0		NS	RS	A	1			*	1117,1400	1301~SECTION		1401						
TERF TOTAL								0	0.0	0	0.0	2	4.0																
NAVIGATION (NAV)																													
NAV	NAV	Intro DMS NAV	1500R	X	X	X	X				0.0		(N)	OS	A	1			*	1103			1500						
	NAV	Intro FLIR	1501	X		X					0.0		(N)	OS	A	1			*	1103									
	SNAV	Intro NAV	S1502R	X	X	X				1.5			D	OS	S	1	S-TEN		*	1010,1500,1501			1501						
	NAV	Intro NAV	1503R	X	X						2.0		D	OS	A	1			*	1400,1502									
	NAV	Intro NVD NAV	1504	X							2.0		NS	OS	A	1			*	1117,1503			1502						
NAV TOTAL								0	0.0	1	1.5	4	4.0																
SPECIFIC WEAPONS DELIVERY (SWD)																													
SWD	SSWD	Intro SWD	S1600R	X	X	X	X			1.5			D	OS	S	1	S-TEN		*	1013,1205,1301,1502			1600						
	SWD	Intro SWD	1601R	X	X	X					1.5		D	OS	A	1			*	1600									
	SWD	Eval SWD	1602	X							1.5		D	OS	A	1			*	1601			1603						
SWD TOTAL								0	0.0	1	1.5	2	3.0																
THREAT COUNTER (TCT)																													
TCT	STCT	Intro ASE	S1700	X						1.5			D	RS	S	1	S-TEN		*	1012,1205			1700						
TCT TOTAL								0	0.0	1	1.5	0	0.0																
ASSAULT SUPPORT (ASPT)																													
ASPT	ASPT	Intro CAL	1800	X							1.5		D	OS	A	1			*	1014,1205			1800						
	ASPT	Intro TAC CAL	1801R	X	X	X					1.5		D	OS	A	1			*	1800			1801						
	ASPT	Intro NVD CAL	1802R	X	X	X	X				1.5		NS	OS	A	1			*	1117,1801			1802						
	ASPT	Intro EXT/Hoist	1803	X							1.5		D	OS	A	1			*	1205			1803						
ASPT TOTAL								0	0.0	0	0.0	4	6.0																

UH-1Y PILOT FLEET REPLACEMENT SQUADRON (FRS) (1000 & 5000 Phase)																								
SKILL	STAGE	T&R DESCRIPTION	EVENT NUMBER	B	R	SC	MR	ACAD/GRND		SIM		FLIGHT		COND	SEAT	TYPE	# A/C or Sim	NETWORK	NUM-NET	REPLY	PREREQUISITE	PREREQUISITE NOTES	MIRROR	EVENT CONV
								#	TIME	#	TIME	#	TIME											
<b>CORE SKILL INTRODUCTION CHECK (CSIX)</b>																								
CSIX	SCSIX	Eval EPs	S1900R	X	X	X	X				1.5			D	RS	S	1	S-TEN		*		All core skill intro events except 1901		1900
	CSIX	CSI Check	1901R	X	X	X	X					2.0		D	RS	A	1			*	1900			1901
<b>CSIX TOTAL</b>								0	0.0	1	1.5	1	2.0											
<b>BASIC POI TOTAL</b>								15	15.0	16	24.0	31	50.5											
<b>FLEET REPLACEMENT INSTRUCTOR ACADEMICS (ACAD)</b>																								
ACAD	ACAD	Fleet Replacement Squadron Instructor Course (FRSIC)	5060	X							1.0			(N)	G					*				
	ACAD	Familiarization Stage Standardization Lecture	5061	X							1.0			(N)	G					*				
	ACAD	Instrument Stage Standardization Lecture	5062	X							1.0			(N)	G					*				
	ACAD	Formation Flight Stage Standardization Lecture	5063	X							1.0			(N)	G					*				
	ACAD	TERF Stage Standardization Lecture	5064	X							1.0			(N)	G					*				
	ACAD	Navigation Stage Standardization Lecture	5065	X							1.0			(N)	G					*				
	ACAD	Specific Weapons Delivery Stage Standardization Lecture	5066	X							1.0			(N)	G					*				
	ACAD	FRS-SIC	5070	X							1.0			(N)	G					*				
<b>ACAD TOTAL</b>								8	8.0	0	0.0	0	0.0											
<b>FLEET REPLACEMENT INSTRUCTOR (FRSI)</b>																								
FRSI	FRSI	(S) Rev FAM/Emer Pro	S5310	X							1.5			D	LS	S	1	S-TEN		*	5201			5310
	FRSI	FAM Rev	5311	X								2.0		D	LS	A	1			*	5310			
	FRSI	FAM Rev	5312	X								2.0		D	LS	A	1			*	5311			5313
	FRSI	FAM Evaluation	5313R	X	X							2.0		D	LS	A	1			*	5312			
	FRSI	INST Evaluation	5314R	X	X							2.0		(N)	LS	A	1			*	5310			5313
	FRSI	Form Flt/TACFORM Rev	5315R	X	X							2.0		D	LS	A	2			*	5310			5314
	FRSI	ASPT Rev	5316R	X	X							2.0		D	LS	A	1			*	5310			5315
	FRSI	TERF Rev	5317R	X	X							2.0		D	LS	A	1			*	5310			5316
	FRSI	WPN Sys Rev	5318R	X	X							2.0		D	LS	A	2			*	5310			5317
	FRSI	NVD Rev	5319R	X	X							2.0		NS	LS	A	1			*	5313, 5315, 5316, 5317	NSI/NSFI		5313
<b>FRSI TOTAL</b>								0	0.0	1	1.5	9	18.0											
<b>NIGHT SYSTEMS/FAM INSTRUCTOR (NSFI)</b>																								
NSFI	NSFI	NVG TERF/NAV IUT	5600	X								2.0		NS	LS	A	1			*				5600
	NSFI	NVD FORM IUT	5601	X								2.0		NS	LS	A	2			*	5600			5601
	NSFI	NSFI Check	5602R	X	X							2.0		NS	LS	A	1			*	5601			5602
<b>NSFI TOTAL</b>								0	0.0	0	0.0	3	6.0											
<b>FLEET REPLACEMENT SQUADRON SIMULATOR INSTRUCTOR (FRS-SI)</b>																								
FRS-SI	FRSSI	FORM Stage Evaluation	5320	X								2.0		D	LS	A	2			*	5337	FRSI, NSFI/NSI, ANI		
	FRSSI	CSIX Eval Intro	5321	X							1.5			D	LS	S	1			*	5337	FRSI, NSFI/NSI, ANI		
<b>FRS-SI TOTAL</b>								0	0.0	1	1.5	1	2.0											

2.24.6 UH-1Y T&R Quick Reference Guide

## UH-1Y T&R CODES QUICK REFERENCE

TERF 2100 DAY TERF	EXP 3600 DAY FARP	3	NSFI 5600 HLL NAV/TERF
2101 NVD TERF	3601 NIGHT FARP	3	5601 HLL FORM
TCT S2200 ASE INTRO	3602 DAY RVL	3	5602 NSFI CERT
S2201 ASE TACTICAL EMPLOYMENT	3603 NIGHT RVL	3	TACAI 5700 TACAI CERT
2			1
REC S2300 DAY RECCE	ASPT 4100 PARAOPS	1	DACMI 5800 1V1 & 2V1 RWDACM REVIEW
2301 NVD RECCE	4101 HELOCAST		5801 1V1 & 2V2 FWDACM REVIEW
2	4102 SPIE	1	5802 RWDACMI CERT
ASPT 2400 DAY SECTION LNDGS	S4103 MTN LANDINGS	2	5803 FWDACMI CERT
2401 HLL SECTION LNDGS	4104 REVIEW MTN LANDINGS	1	NSI 5900 LOW WORK/FAM/FCLP/EP
2402 DAY SECTION TACTICAL LANDINGS	S4105 SAR/HOIST OPS	2	S5901 INSTRUCTORSHIP REVIEW
2403 HLL SECTION TACTICAL LANDINGS	4107 SNIPER OPS	1	5902 TAC FORM/OAS
2404 EXTERNALS	S4108 ASPT (HIGH THRT)	1,2	5903 TAC FORM/ASPT/NAV/SWD
FCLP S2500 FCLP INTRO	ESC 4200 ASPT ESC (MED/HIGH THRT)	1,3	S5904 IUT EVAL
2501 DAY FCLP	CAS 4201 CAS (MED/HIGH THRT)	1,3	5905 TACTICAL CERT
2502 NIGHT/NVD FCLP	SCAR S4207 SCAR (MED/HIGH THRT)	1,2	FLSE 5920 FLSE CERT
2	DACM 4301 1V1 RWDACM		5921 ANNUAL FLSE TRNG
ASPT 2603 DAY RKT/GUN	4302 2V1 RWDACM		RQD 6000 IGS
2604 DAY RKT/GUN	4303 REVIEW 1V1 AND 2V1 RWDACM		6001 IGS EXAM
2605 SCORED RKT DELIVERY	4304 1V1 FWDACM		6100 INST CHECK
S2606 HLL RKT/GUN	4305 2V2 FWDACM		1,3
2607 HLL RKT/GUN	CBRN S4400 INTRO CBR MASK	1,2	6002 NTPS OPEN BOOK EXAM
S2608 LLL RKT/GUN	TACA 4500 TACA	1	6003 NTPS CLOSED BOOK EXAM
2609 LLL RKT/GUN	CQ 4600 DAY CQ		6004 NTPS ORAL EVAL
2610 MOVING TGT GUNNERY	4601 NVD CQ		6101 NTPS CHECK
1	4602 NIGHT UNAIDED CQ		1,3
ANSQ S2700 LLL NVD EP	BIP S5100 EP STAN IUT		6005 ANNUAL CRM GND TRNG
2701 LLL LOW WORK, PTRN, NAV	S5101 FAM/CQ IUT	2	FCP 6102 CRM EVAL FLT
2702 LLL FORM/TERF NAV	S5102 INST IUT	2	6006 FCP OPEN BOOK EXAM
2703 LLL SECTION TACTICAL LANDINGS	S5103 FORM IUT		6007 FCP CLOSED BOOK EXAM
FAM 2800 FAM PROFICIENCY	S5104 SECTION TACTICAL LANDINGS IUT		S6200 DEMO FCF PROCEDURES
S2801 EP SIM	TERFI S5110 TERF IUT	2	S6201 INTRO FCF PROCEDURES
4	S5111 TERF NAV IUT		3
ESC 3100 DAY ASPT ESC	WTO S5200 UH-1Y WEAPON SYS REVIEW		6202 INTRO MR TRK/BAL & VIBES
3101 NVD ASPT ESC	5201 TACTICAL IUT	1	6203 INTRO TR TRK/BAL & VIBES
S3102 REVIEW ASPT ESC	TSI S5210 TSI INTRO		S6204 REVIEW FCF PROCEDURES
3103 SFC ESC	S5211 TACTICAL SIM REVIEW		3
1,4	CSI S5300 FAM & EP STAN		6205 FCP EVAL
ASPT 3200 DAY FASTROPE/RAPPEL	S5301 INST STAN		PQM 6300 PQM DESG
3201 NIGHT FASTROPE/RAPPEL	S5302 ASE INTRO		UHC 6398 UHC DESG
3202 DAY LONG RANGE INSERT/EXTRACT OR RAID	S5303 SWD REVIEW		1
3203 NIGHT LONG RANGE INSERT/EXTRACT OR RAID	FRSI S5310 EP REVIEW		SL 6400 DAY SLUT
3204 LLL DEGRADED NAV INSERT/EXTRACT	S5311 FAM REVIEW		6401 NVD SLUT
S3205 URBAN INSERT/EXTRACT	S5312 FAM REVIEW		4
1,2,4	S5313 FAME EVAL		6498 SLEVAL
AD 3206 STATIC CARGO/PAX LOAD & UNLOAD	S5314 INST EVAL	1	DL 6500 DAY DLUT
3207 TACTICAL AD	S5315 FORM REVIEW		6501 NVD DLUT
2,4	S5316 ASPT REVIEW		4
EVAC 3208 CASEVAC	S5317 TERF REVIEW		6598 DL EVAL
1	S5318 SWD REVIEW		1,4
CC 3209 C&C	S5319 NVD FAM REVIEW		FL 6698 FLT LD DESG
1	FRSSI S320 FORM IUT EVAL		AMC 6798 AMC DESG
CAS S3300 INTRO RW CAS	S321 CSIX EVAL		1,4
3301 DAY CAS (LOW THRT)	FACAI S400 FACAI IUT	1	SOTC 6900 LIVE ILLUM RKT
3302 NIGHT CAS (MED THRT)	S401 FACAI CERT	1	6901 LIVE GUIDED RKT
3303 LLL CAS (MED THRT)	NSSI 5500 LOW WORK/PTRN/EP		6902 LIVE FLECHETTE
3304 URBAN CAS (LOW/MED THRT)	S5501 LLL CALS/MALS/NAV/SAR		6906 FACA STAN
3,4	S5502 NSSI CERT		6998 DAY AUTO
AR 3305 ARMED RECCE (LOW/MED THRT)			6999 NIGHT AUTO
1			1A1 FAM 1B6 DACMI (UT)
SCAR S3307 SCAR (MED THRT)			1A2 INST 1B7 FACAI (UT)
1,2			1A3 FCLP 1B9 NSI (UT)
TRAP 3308 TRAP			1A4 CQ 2K2 FCF
1,4			1A6 AIR CMBT 2K4 BOGEY SPT
FACA 3400 INTRO IDF SPT			1A7 ATK 2L3 INST CK
3401 RW CONTROL			1A9 NVDs 2L4 NTPS CK
3402 DAY FW CONTROL			2M4 SUPT HOPS
3403 NIGHT FW CONTROL			
3404 FAC(A) REVIEW			

1. NIGHT OPTIONAL  
2. SIM PREF, AC OPTIONAL  
3. AC PREF, SIM OPTIONAL  
4. ORD OPTIONAL