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 $P_s$/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
- $P_s$/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
- MOPP 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 $C^3$ 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 NTTP.

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 |
| TEREI | |
| 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 asses 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)

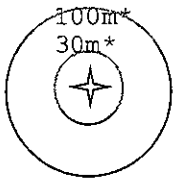
2.19.5.1 Purpose. To qualify the IUT as a WTO.

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, NSFI, 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 refly 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 |
|---|---|---|---|
|  *Radius | -In correct profile per NTTP<br><br>-No miss greater than 100 meters<br><br>-CE90≤30 meters**<br><br>-(1) rocket per pass must impact within 10 meters | -On target within 3 seconds of trigger pull<br><br>-Crew served: crew coordination sufficient to achieve AG metric | -Based upon M151 Effective Casualty Radius(ECR)***<br><br>-Demonstrates the capacity to instruct Specific Weapons Delivery |

** 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 NTTP 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 NTTP

Performance Standards

IUT shall successful 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 NTTP.

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 NTTP.
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

Ordnance. (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 |
| INST/NATOPS | |
| No Lectures | |
| FCP | |
| No Lectures | |
| FQM | |
| 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) |
| UHC | |
| ACPM-8300 | Air Defense |
| ACPM-8310 | Forward Arming Refueling Point (FARP) 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 |
| SECTION LEADER | |
| 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 |
| DIVISION LEADER | |
| 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 |
| FLIGHT LEADER | |
| ACAD-6060 | Review TRAP TTPs |
| ACAD-6061 | Review Execution Checklist |
| ACPM-8620 | ESG/CSG Integration |
| AIR MISSION COMMANDER | |
| 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 (RQD) 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 asses 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
$N_R$ 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

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

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-6401 | 1.5 | * | NS | A | 1 UH-1Y & 1 H-1 |

Goal. OS - Tactically employ a section in a medium to high threat environment during the conduct of a night OAS, escort or assault support mission. Emphasis shall be placed on safety, range regulations, night formation considerations, sensor acquisition and hand-off, night rendezvous and join-up procedures, aircraft lighting, section IIMC procedures and wingman awareness.

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 section mechanics (objective area maneuver)
- Plan and brief landing plan and fire support plan
- Plan and brief section 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 section take-off and one night section landing
- Maneuver section 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 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 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.

At least one of the events should be conducted with 3+ UH-1Ys. During the conduct of all OAS/ESC missions, at least one attack shall be conducted as a division.

PUI shall have led three flights as a designated Section Leader (SL) prior to beginning the Division Lead syllabus. PUI shall also have a minimum of: 600 total hours, 200 rotary wing hours, and 50 hours in model.

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.

| DL-6500 | 1.5 | * | D | 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 OAS, escort or assault support mission. Emphasis shall be placed on route planning, flight member responsibilities, division formations and maneuvering, threat counter-tactics, ASTACSOP, 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/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.

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/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.
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/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 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 (MCPP)/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 |
| CORE SKILL | |
| 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) |
| MISSION SKILL | |
| ACPM-8300 | Air Defense |
| ACPM-8310 | Forward Arming Refueling Point (FARP) Operations |
| ACPM-8311 | MTactical Fuel Systems |
| ACPM-8320 | Jointarine 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: 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 |
| SECTION LEADER | |
| ACPM-8630 | Tactical Air Command Center (TACC) |
| ACPM-8660 | Joint Ops Intro |
| DIVISION LEADER | |
| ACPM-8640 | Joint Data Network |
| ACPM-8641 | MAGTF Theater and National ISR Employment |
| FLIGHT LEADER | |
| 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: Weaponeering and Allocation

Learning Objectives

Understand weaponeering 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 | REFLY | EVAL | EOM | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | | |
| CORE SKILL (2000 Phase) | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Enviroment | 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 | | | | | | | | 18 | 18.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | | |
| TERF | TERF | Rev TERF | 2100 | X | X | | | | | | | | 2.0 | D | OS | A | 1 | | | 180 | | | 2100 | 2100 |
| | TERF | Rev NVD TERF HLL | 2101R | X | X | X | X | | | | | | 2.0 | 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 Deleivery | 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 | | | | | 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 | | | 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 | | | | | | | | | | | |
| MISSION SKILLS (3000 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)Weaponeering | 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 | | | | | | | | | 1.5 | D | OS | A | 2 | | | * | | | 3101 | 3101 |
| | ESC | NVD ASPR ESC | 3101R | X | X | | | | | | | | 1.5 | 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 | | | | | | | | 1.5 | (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 | | | | | | | | 1.0 | D | OS | A | 1 | | | 365 | | | 3200 | 3200 |
| | ASPT | NVD Fastrope/Rappel | 3201R | X | X | | X | | | | | | 1.0 | NS | OS | A | 1 | | | 365 | | | 3201 | 3201 |
| | ASPT | Long Range Insert/Extract | 3202 | X | | | | | | | | | 2.0 | D | OS | A | 2 | | | * | | | 3202 | 3202 |
| | ASPT | NVD Insert Extract | 3203R | X | X | X | X | | | | | | 1.5 | NS | OS | A | 2 | | | 180 | | | 3203 | 3203 |
| | ASPT | Degraded Nav ASPT | 3204R | X | X | | X | | | | | | 1.5 | 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 | | | 1.0 | | | | 0.0 | (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 | | | | | | 0.0 | (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 | | | | | | 1.5 | (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 or Sim | NETWORK | NUM-NET | REFLY | EVAL | ECOM | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | | |
| CAS | SCAS | (S) Intro CAS | S3300 | X | | | 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 | | | | | | 1.5 | (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 | 3307 | | | | | | | | | | |
| SCAR | SSCAR | (S) SCAR | S3307R | 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 | | | | | | 1.5 | (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 | | | | | | 1.5 | (NS) | OS | A/S | 1 | | | 365 | | | 3400 | 3400 |
| | FAC(A) | RW Ctrl Intro | 3401R | X | X | | X | | | | | | 1.5 | (NS) | OS | A/S | 2 | | | 365 | | | 3401 | 3401 |
| | FAC(A) | FW Ctrl Intro | 3402R | X | X | | X | | | | | | 1.5 | D | OS | A/S | 2 | | | 365 | | | 3402 | 3402 |
| | FAC(A) | NVD FW Ctrl Intro | 3403R | X | X | | X | | | | | | 1.5 | NS | OS | A | 2 | | | 365 | | | 3403 | 3403 |
| | FAC(A) | SPT Arms Cosolidate | 3404R | X | X | | X | | | | | | 1.5 | (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 | | | | | | | | | 0.0 | D | OS | A/S | 1 | | | * | | | 3600 | 3600 |
| | EXP | NVD FARP Trk Code | 3601R | X | X | | X | | | | | | 0.0 | NS | OS | A/S | 1 | | | 180 | | | 3601 | 3601 |
| | EXP | Day RVLs | 3602 | X | | | | | | | | | 0.0 | D | OS | A/S | 1 | | | * | | | N/A | N/A |
| | EXP | Night RVLs | 3603R | X | X | X | X | | | | | | 0.0 | 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 | | | 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 | | | | | | | | | | | |
| 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 | | | | | | 2.0 | (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 | REPLY | 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 Maneuve | 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 Maneuve | 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 | | | MAINTAIN | ACAD/GRND | | SIM | | FLIGHT | | COND | SEAT | TYPE | # A/C or Sim | NETWORK | NON-NET | REFLY | EVAL | EOM | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | | |
| NSI | NSI | NVD FAM | 5900 | X | | | | | | | | | 2.0 | NS | | A | 1 | | | * | | | 5900 | 5900 |
| | NSI | NVD Instructorship | S5901 | 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 | 8.0 | | | | | | | | | | | |
| 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)Weaponeering | 6052 | X | | | | | 1.0 | | | | | (N) | | G | | | | * | | | 6052 | 6052 |
| | ACAD | Rev (S)TRAP | 6060 | X | | | | | 1.0 | | | | | (N) | | G | | | | * | | | 6060 | 6060 |
| | ACAD | Rev Execution Checkl | 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 | | | | | 1 | 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 | | | | * | | | 6020 | 6020 |
| | FCP | FCP Closed Book | 6007R | X | X | | | | 1.0 | | | | | (N) | | G | | | | * | | | 6021 | 6021 |
| | 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 FCF 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 or Sim | NETWORK | NUM-NET | REPLY | 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/JTAR 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 PREREQUISTE 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 Enviroment | 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 Deleivery | 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 PREREQUISTE 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)Weaponeering | 3034 | | | |
| | ACAD | HMLA AR and SCAR TTPs | 3035 | | | |
| | ACAD | (S) Personnel Recovery | 3038 | | | |
| | ACAD | (S) TRAP | 3039 | | | |
| | ACAD | JFAC(A) Courseware* | 3041 | | | |
| | ACAD | FAC(A) TTPs | 3042 | | | |
| | ACAD | HMLA FARP Ops | 3045 | | | |
| ESC | ESC | ASPT ESC | 3100 | 3008,3009,2600, 2604~ORD | ORD~2604 | 2604~ORD |
| | ESC | NVD ASPR ESC | 3101 | 3010,3011,3100,2403,LLL~2702 | NS&ORD~2607<br>LLL&ORD~2609<br>NSQ~NS | 2201,2301,ORD~2604,LLL~702,NS&ORD~2607,LLL&ORD~2609 |
| | SESC | (S) ASPR ESC | S3102R | 3003,3004,3005,3019,3101,NS~2403,LLL~2702,NS~NSQ | NS&ORD~2607<br>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<br>NS&ORD~2607<br>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<br>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<br>AC&LLL~ANSQ<br>AC&ORD~2604<br>NS&ORD~2607<br>LLL&ORD~2609<br>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 PREREQUISTE 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 | DACM Trng | 4031 | | | |
| | ACAD | DACM 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 PREREQUISTE AND CHAINING | | | | | | |
|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER | PREREQUISITE | PREREQUISITE NOTES | CHAINING |
| CQ | CQ | Day CQ | 4600 | 2501 | | 2501 |
| | CQ | NVD CQ | 4601R | 2502,4600,2403 | NSQ | 2501,2502,4600,4602 |
| | CQ | Unaided CQ | 4602 | 4600,2502 | | 2501,2502,4600 |
| 5000 PHASE | | | | | | |
| ACAD | ACAD | Tgng 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 | Tactical 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 | 5201R | 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) | DACM(I) | 1v1/2v1 RW IUT | 5800 | | | |
| | DACM(I) | 1v1/2v1 FW IUT | 5801 | | | |
| | DACM(I) | RW IUT Check | 5802R | 4303,5201,5800 | | 2201,4303 |
| | DACM(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 | 55901 | 5201 | | 2201,2801 |
| | NSI | NVD CAS | 5902 | 5201 | | 2604,2607,2609,2701,2702,3301,3303 |
| | NSI | NVD ASPT | 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 PREREQUISTE 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 Plng | 6051 | | | |
| | ACAD | Rev (S)Weaponeering | 6052 | | | |
| | ACAD | Rev (S)TRAP | 6060 | | | |
| | ACAD | Rev Execution Check1 | 6061 | | | |
| | ACAD | Review R2P2 | 6070 | | | |
| | ACAD | AMC | 6071 | | | |
| | ACAD | Rev NEO Execution | 6072 | | | |
| NTPS | NTPS | Open Book NATOPS | 6002R | | | |
| | NTPS | Closed Book NATOPS | 6003R | | | |
| | NTPS | Oral NATOPS Exam | 6004R | | | |
| | NTPS | NATOPS Check | 6101R | 6002,6003 | | 2800,2801 |
| INST | INST | INST Grnd Sch | 6000R | | | |
| | INST | IGS Exam | 6001R | | | |
| | INST | INST Check | 6100R | 6000,6001 | | |
| CRM | CRM | CRM Ground Trng | 6005R | | | |
| | CRM | CRM Eval Trk Code | 6102R | | | |
| FCP | FCP | FCP Open Book | 6006R | | | |
| | FCP | FCP Closed Book | 6007R | | | |
| | SFCP | (S) FCP Demo/Intro | S6200 | 6300,6006 | | |
| | SFCP | (S) FCP Demo/Intro | S6201 | 6200 | | |
| | FCP | Intro MR Trk/Bal | 6202 | 6201 | | |
| | FCP | Intro T/R Trk/Bal | 6203R | 6201 | | |
| | SFCP | (S) Rev FCF Proc | S6204R | 6203 | | |
| | FCP | FCP Eval | 6205R | 6204,6007 | | |
| DESG | DESG | PQM Eval Trk Code | 6300R | 1901,8200,8201,8202,8230,8231,8240,8241,8242,8250 | | |
| | DESG | UHC EVAL | 6398R | 8300,8310,8320,8321,8322,8323,8324,8325,8326,8340,8350,8351,6300 | | |
| SL | SL | SL Day | 6400 | 6398 | 50hrs as UHC, 3 flights as wingman UHC, brief and lead 2 sections. | |
| | SL | Night SL | 6401 | 6398 | | |
| | SL | SL Eval | 6498R | 6400,6401,8630,8660 | | |
| DL | DL | DL Day | 6500 | 6498 | Lead a min of three flights as SL. Minof: 600 tot hrs, 200 R/W hours, and 50 hours in model. | |
| | DL | DL Night | 6501 | 6498 | | |
| | DL | DL Eval | 6598R | 6500,6501,8640,8641 | | |
| FL | FL | FL Eval | 6698R | 6598,6060,6061,8620 | Lead a min of three flights as a Div Lead. Minimum of 750 total hours. | |
| AMC | AMC | AMC Eval | 6798R | 6598,6070,6071,6072 | | |
| SOTC | SOTC | Illum Rkt Prof | 6900 | | | |
| | SOTC | Guided Rkt Prof | 6901 | | | |
| | SOTC | Flechette Rkt Prof | 6902 | | | |
| | SOTC | FAC(A) Stan track | 6906 | 3400,3401,3402,3403 | | |
| AUTOTRK | 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 QUANITY | 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 | | | | | | | |
| | ASPT | Externals | 2404R | X | X | | X | | | | | | X | Helicopter Support Team (HST) and cargo |
| FCLP | 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 QUANITY | ORDNANCE NOTES | RANGE | RANGE NOTES | EXT SYL SUPPORT | EXTERNAL SYLLABUS NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MISSION SKILLS (3000 Phase)** | | | | | | | | | | | | | | |
| 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 ASPR 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) ASPR 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 MOUT 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 QUANITY | 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 OAS aircraft |
| AAD | DACM | 1v1 RW | 4301 | X | | 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 QUANITY | 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 QUANITY | ORDNANCE NOTES | RANGE | RANGE NOTES | EXT SYL SUPPORT | EXTERNAL SYLLABUS NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NSI | NSI | NVD FAM | 5900 | X | | | | | | | | | | |
| | NSI | NVD Instructorship | S5901 | 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, DESIGANTIONS, 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 | S6200 | X | | | | | | | | | | |
| | SFCP | (S) FCP Demo/Intro | S6201 | X | | | | | | | | | | |
| | FCP | Intro MR Trk/Bal | 6202 | X | | | | | | | | | | |
| | FCP | Intro T/R Trk/Bal | 6203R | X | X | | | | | | | | | |
| | SFCP | (S) Rev FCF Proc | S6204R | X | X | | | | | | | | | |
| | FCP | FCP Eval | 6205R | X | X | | | | | | | | | |
| DESG | DESG | POM 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 QUANITY | 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 |

2.24.7 FRS T&R Matrix

**UH-1Y PILOT FLEET REPLACEMENT SQUADRON (FRS) (1000 & 5000 Phase)**

| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER | B | R | SC | MR | ACAD/GRND # | ACAD/GRND TIME | SIM # | SIM TIME | FLIGHT # | FLIGHT TIME | COND | SEAT | TYPE | # A/C or Sim | NETWORK | NUM-NET | REFLY | PREREQUISITE | PREREQUISITE NOTES | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 # | ACAD/GRND TIME | SIM # | SIM TIME | FLIGHT # | FLIGHT TIME | COND | SEAT | TYPE | # A/C or Sim | NETWORK | NUM-NET | REFLY | PREREQUISITE | PREREQUISITE NOTES | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 TACTIC (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 # | ACAD/GRND TIME | SIM # | SIM TIME | FLIGHT # | FLIGHT TIME | COND | SEAT | TYPE | # A/C or Sim | NETWORK | NUM-NET | REFLY | PREREQUISITE | PREREQUISITE NOTES | MIRROR | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CORE SKILL INTRODUCTION CHECK (CSIX)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| CSIX TOTAL | | | | | | | | 0 | 0.0 | 1 | 1.5 | 1 | 2.0 | | | | | | | | | | | |
| **BASIC POI TOTAL** | | | | | | | | **15** | **15.0** | **16** | **24.0** | **31** | **50.5** | | | | | | | | | | | |
| **FLEET REPLACEMENT INSTRUCTOR ACADEMICS (ACAD)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | * | | | | |
| ACAD TOTAL | | | | | | | | 8 | 8.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | | |
| **FLEET REPLACEMENT INSTRUCTOR (FRST)** | | | | | | | | | | | | | | | | | | | | | | | | |
| FRSI | SFRSI | (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 |
| FRSI TOTAL | | | | | | | | 0 | 0.0 | 1 | 1.5 | 9 | 18.0 | | | | | | | | | | | |
| **NIGHT SYSTEMSFAM INSTRUCTOR (NSFI)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| NSFI TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 6.0 | | | | | | | | | | | |
| **FLEET REPLACEMENT SQUADRON SIMULATOR INSTRUCTOR (FRS-SI)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | |
| FRS-SI TOTAL | | | | | | | | 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 | |
| | 2101 | NVD TERF | |
| TCT | S2200 | ASE INTRO | |
| | S2201 | ASE TACTICAL EMPLOYMENT | 2 |
| REC | S2300 | DAY RECCE | 2 |
| | 2301 | NVD RECCE | |
| ASPT | 2400 | DAY SECTION LNDGS | |
| | 2401 | HLL SECTION LNDGS | |
| | 2402 | DAY SECTION TACTICAL LANDINGS | |
| | 2403 | HLL SECTION TACTICAL LANDINGS | |
| | 2404 | EXTERNALS | |
| FCLP | S2500 | FCLP INTRO | |
| | 2501 | DAY FCLP | |
| | 2502 | NIGHT/NVD FCLP | |
| SWD | S2600 | RKT/FF GUN | |
| | 2603 | DAY RKT/GUN | |
| | 2604 | DAY RKT/GUN | |
| | 2605 | SCORED RKT DELIVERY | |
| | S2606 | HLL RKT/GUN | 2 |
| | 2607 | HLL RKT/GUN | |
| | S2608 | LLL RKT/GUN | 2 |
| | 2609 | LLL RKT/GUN | |
| | 2610 | MOVING TGT GUNNERY | 1 |
| ANSQ | S2700 | LLL NVD EP | |
| | 2701 | LLL LOW WORK, PTRN, NAV | |
| | 2702 | LLL FORM/TERF NAV | |
| | 2703 | LLL SECTION TACTICAL LANDINGS | |
| FAM | 2800 | FAM PROFICIENCY | |
| | S2801 | EP SIM | |
| ESC | 3100 | DAY ASPT ESC | 4 |
| | 3101 | NVD ASPT ESC | 4 |
| | S3102 | REVIEW ASPT ESC | 2,4 |
| | 3103 | SFC ESC | 1,4 |
| ASPT | 3200 | DAY FASTROPE/RAPPEL | |
| | 3201 | NIGHT FASTROPE/RAPPEL | |
| | 3202 | DAY LONG RANGE INSERT/EXTRACT OR RAID | |
| | 3203 | NIGHT LONG RANGE INSERT/EXTRACT OR RAID | |
| | 3204 | LLL DEGRADED NAV INSERT/EXTRACT | |
| | S3205 | URBAN INSERT/EXTRACT | 1,2,4 |
| AD | 3206 | STATIC CARGO/PAX LOAD & UNLOAD | 1 |
| | S3207 | TACTICAL AD | 2,4 |
| EVAC | 3208 | CASEVAC | 1 |
| CC | 3209 | C&C | 1 |
| CAS | S3300 | INTRO RW CAS | |
| | 3301 | DAY CAS (LOW THRT) | |
| | 3302 | NIGHT CAS (MED THRT) | |
| | 3303 | LLL CAS (MED THRT) | |
| | 3304 | URBAN CAS (LOW/MED THRT) | 3,4 |
| AR | 3305 | ARMED RECCE (LOW/MED THRT) | 1 |
| SCAR | S3307 | SCAR (MED THRT) | 1,2 |
| TRAP | 3308 | TRAP | 1,4 |
| FACA | 3400 | INTRO IDF SPT | 1,3,4 |
| | 3401 | RW CONTROL | 1,3 |
| | 3402 | DAY FW CONTROL | 3 |
| | 3403 | NIGHT FW CONTROL | |
| | 3404 | FAC(A) REVIEW | 1 |

| | | | |
|---|---|---|---|
| EXP | 3600 | DAY FARP | 3 |
| | 3601 | NIGHT FARP | 3 |
| | 3602 | DAY RVL | 3 |
| | 3603 | NIGHT RVL | 3 |
| ASPT | 4100 | PARAOPS | 1 |
| | 4101 | HELOCAST | |
| | 4102 | SPIE | 1 |
| | S4103 | MTN LANDINGS | 2 |
| | 4104 | REVIEW MTN LANDINGS | 1 |
| | S4105 | SAR/HOIST OPS | 2 |
| | 4107 | SNIPER OPS | 1 |
| | S4108 | ASPT (HIGH THRT) | 1,2 |
| ESC | 4200 | ASPT ESC (MED/HIGH THRT) | 1,3 |
| CAS | 4201 | CAS (MED/HIGH THRT) | 1,3 |
| SCAR | S4207 | SCAR (MED/HIGH THRT) | 1,2 |
| DACM | 4301 | 1V1 RWDACM | |
| | 4302 | 2V1 RWDACM | |
| | 4303 | REVIEW 1V1 AND 2V1 RWDACM | |
| | 4304 | 1V1 FWDACM | |
| | 4305 | 2V2 FWDACM | |
| CBRN | S4400 | INTRO CBR MASK | 1,2 |
| TACA | 4500 | TACA | 1 |
| CQ | 4600 | DAY CQ | |
| | 4601 | NVD CQ | |
| | 4602 | NIGHT UNAIDED CQ | |
| BIP | S5100 | EP STAN IUT | |
| | S5101 | FAM/CQ IUT | 2 |
| | S5102 | INST IUT | 2 |
| | 5103 | FORM IUT | |
| | 5104 | SECTION TACTICAL LANDINGS IUT | |
| TERFI | S5110 | TERF IUT | 2 |
| | 5111 | TERF NAV IUT | |
| WTO | S5200 | UH-1Y WEAPON SYS REVIEW | |
| | 5201 | TACTICAL IUT | 1 |
| TSI | S5210 | TSI INTRO | |
| | S5211 | TACTICAL SIM REVIEW | |
| CSI | S5300 | FAM & EP STAN | |
| | S5301 | INST STAN | |
| | S5302 | ASE INTRO | |
| | S5303 | SWD REVIEW | |
| FRSI | S5310 | EP REVIEW | |
| | 5311 | FAM REVIEW | |
| | 5312 | FAM REVIEW | |
| | 5313 | FAM EVAL | |
| | 5314 | INST EVAL | 1 |
| | 5315 | FORM REVIEW | |
| | 5316 | ASPT REVIEW | |
| | 5317 | TERF REVIEW | |
| | 5318 | SWD REVIEW | |
| | 5319 | NVD FAM REVIEW | |
| FRSSI | 5320 | FORM IUT EVAL | |
| | 5321 | CSIX EVAL | |
| FACAI | 5400 | FACA IUT | 1 |
| | 5401 | FACAI CERT | 1 |
| NSSI | 5500 | LOW WORK/PTRN/EP | |
| | 5501 | LLL CALS/MALS/NAV/SAR | |
| | 5502 | NSSI CERT | |

| | | | |
|---|---|---|---|
| NSFI | 5600 | HLL NAV/TERF | |
| | 5601 | HLL FORM | |
| | 5602 | NSFI CERT | |
| TACAI | 5700 | TACAI CERT | 1 |
| DACMI | 5800 | 1V1 & 2V1 RWDACM REVIEW | |
| | 5801 | 1V1 & 2V2 FWDACM REVIEW | |
| | 5802 | RWDACMI CERT | |
| | 5803 | FWDACMI CERT | |
| NSI | 5900 | LOW WORK/FAM/FCLP/EP | |
| | S5901 | INSTRUCTORSHIP REVIEW | |
| | 5902 | TAC FORM/OAS | |
| | 5903 | TAC FORM/ASPT/NAV/SWD | |
| | S5904 | IUT EVAL | |
| | 5905 | TACTICAL CERT | |
| FLSE | 5920 | FLSE CERT | 1 |
| | 5921 | ANNUAL FLSE TRNG | 1 |
| RQD | 6000 | IGS | |
| | 6001 | IGS EXAM | |
| | 6100 | INST CHECK | 1,3 |
| | 6002 | NTPS OPEN BOOK EXAM | |
| | 6003 | NTPS CLOSED BOOK EXAM | |
| | 6004 | NTPS ORAL EVAL | |
| | 6101 | NTPS CHECK | 1,3 |
| | 6005 | ANNUAL CRM GND TRNG | |
| FCP | 6102 | CRM EVAL FLT | |
| | 6006 | FCP OPEN BOOK EXAM | |
| | 6007 | FCP CLOSED BOOK EXAM | |
| | S6200 | DEMO FCF PROCEDURES | |
| | S6201 | INTRO FCF PROCEDURES | 3 |
| | 6202 | INTRO MR TRK/BAL & VIBES | |
| | 6203 | INTRO TR TRK/BAL & VIBES | |
| | S6204 | REVIEW FCF PROCEDURES | 3 |
| | 6205 | FCP EVAL | |
| PQM | 6300 | PQM DESG | 1 |
| UHC | 6398 | UHC DESG | 1 |
| SL | 6400 | DAY SLUT | 4 |
| | 6401 | NVD SLUT | 4 |
| | 6498 | SL EVAL | 1,4 |
| DL | 6500 | DAY DLUT | 4 |
| | 6501 | NVD DLUT | 4 |
| | 6598 | DL EVAL | 4 |
| FL | 6698 | FLT LD DESG | 1,4 |
| AMC | 6798 | AMC DESG | 1,4 |
| SOTC | 6900 | LIVE ILLUM RKT | |
| | 6901 | LIVE GUIDED RKT | |
| | 6902 | LIVE FLECHETTE | |
| | 6906 | FACA STAN | |
| | 6998 | DAY AUTO | |
| | 6999 | NIGHT AUTO | |

| | | | |
|---|---|---|---|
| 1A1 | FAM | 1B6 | DACMI (UT) |
| 1A2 | INST | 1B7 | FACAI (UT) |
| 1A3 | FCLP | 1B9 | NSI (UT) |
| 1A4 | CQ | 2K2 | FCF |
| 1A6 | AIR CMBT | 2K4 | BOGEY SPT |
| 1A7 | ATK | 2L3 | INST CK |
| 1A9 | NVDs | 2L4 | NTPS CK |
| | | 2M4 | SUPT HOPS |

1. NIGHT OPTIONAL
2. SIM PREF, AC OPTIONAL
3. AC PREF, SIM OPTIONAL
4. ORD OPTIONAL

# CHAPTER 3

## UH-1Y CREW CHIEF/AERIAL OBSERVER

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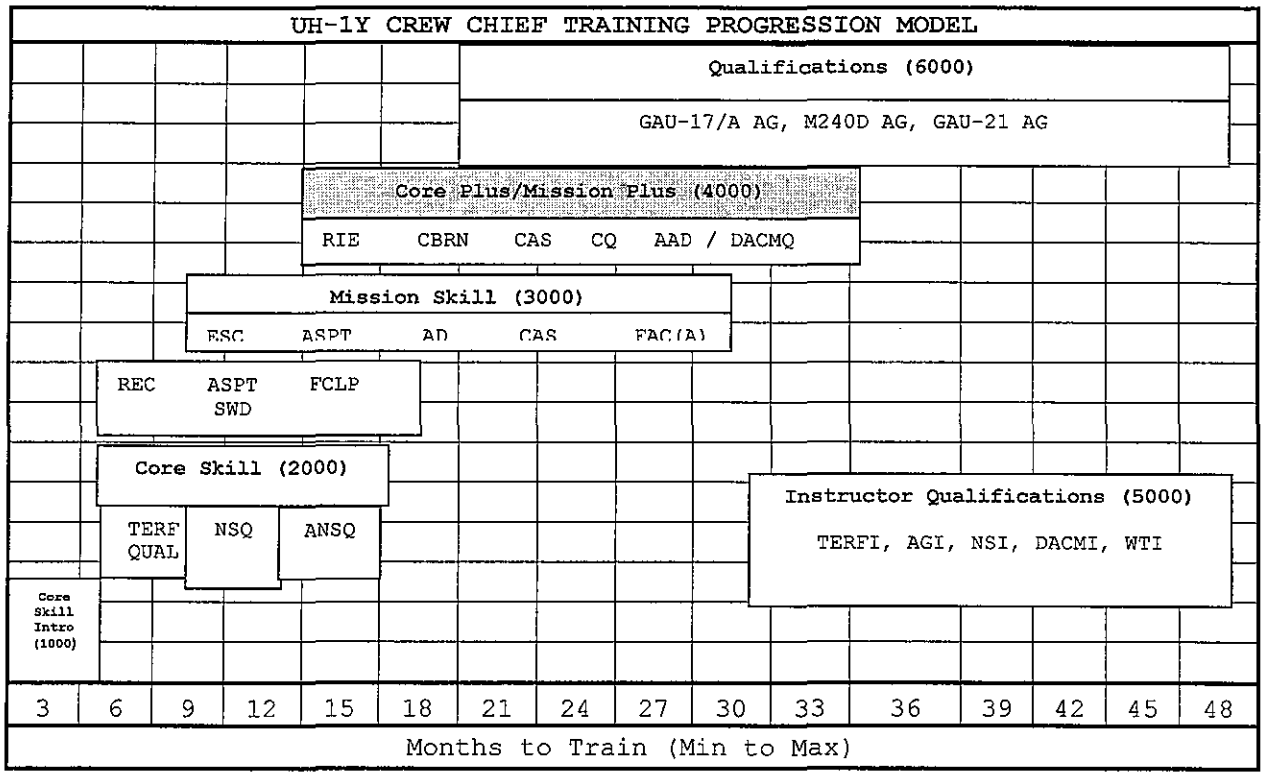
# CHAPTER 3

## UH-1Y CREW CHIEF/AERIAL OBSERVER

3.0 UH-1Y CREW CHIEF/AERIAL OBSERVER INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

3.1 UH-1Y CREW CHIEF/AERIAL OBSERVER TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the minimum to maximum time per phase for the UH-1Y crewmember. Units should use the model as a guide to generate individual training plans.




3.2 PROFICIENCY & CURRENCY

3.2.1 Proficiency. Proficiency is a measure of achievement in the execution of a specific skill. Refly factors establish the maximum time between demonstration of those particular skills. To regain proficiency, an individual shall complete the delinquent events with a proficient crew chief. If an entire unit loses proficiency, unit instructors shall regain proficiency by completing an event with an instructor from a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. If a unit has only one instructor and cannot complete the event with an instructor from another unit, the instructor shall regain proficiency with the next highest qualified crew chief available or as designated by the commanding officer.

3.2.2 Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of

conduct based upon the most recent low altitude fly date. Specific currency requirements for individual type mission profiles can be found in Chapter 3 of the Aviation T&R Program Manual.

3.3 INDIVIDUAL CORE SKILL PROFICIENCY REQUIREMENTS

3.3.1 Management of individual CSP serves as the foundation for developing proficiency requirements in DRRS-MC.

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

3.3.3 Proficiency is attained by individual Core Skill where the training events for each skill are determined by POI assignment.

3.3.4 Once proficiency has been attained by Core Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the Maintain table and in the Maintain POI column of the Attain and Maintain Table. An individual maintains proficiency by individual Core Skill.

***Note***

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

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

| CORE SKILLS (2000 Phase) ATTAIN AND MAINTAIN PROFICIENCY | | | | | | |
|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | ATTAIN PROFICIENCY | | | MAINTAIN PROFICIENCY |
| | | | BASIC POI | REFRESHER POI | SERIES CONV POI | |
| TERF | TERF | INTRO TERF NAV | 2100 | | | |
| | TERF | REVIEW NVD TERF ~NS | 2101R | 2101R | 2101R | 2101R |
| REC | SREC | SENSOR FAM | 2300 | | | |
| | REC | SENSOR FAM | 2301R | 2301R | | 2301R |
| ASPT | ASPT | TAC LANDINGS | 2400 | | | |
| | ASPT | ~NS NVD TAC LDGS | 2401 | | | |
| | ASPT | SECTION TAC LANDINGS | 2402R | 2402R | 2402R | |
| | ASPT | ~NS NVD SECTION TAC | 2403R | 2403R | 2403R | 2403R |
| FCLP | FCLP | DAY FCLP | 2501R | 2501R | | |
| | FCLP | NIGHT AND NVD FCLP | 2502R | 2502R | | 2502R |
| SWD | SWD | GAU-17/A INTRO | 2601R | 2601R | 2601R | |
| | SWD | M240D INTRO | 2602R | 2602R | | |
| | SWD | GAU-21 INTRO | 2603R | 2603R | | |
| | SWD | ~NS NVD GAU-17/A INT | 2605 | | | |
| | SWD | ~NS NVD M240D INTRO | 2606 | | | |
| | SWD | ~NS NVD GAU-21 INTRO | 2607 | | | |
| | SWD | LLL NVD GAU-17/A INT | 2609R | 2609R | 2609R | 2609R |
| | SWD | LLL NVD M240D INTRO | 2610R | 2610R | 2610R | 2610R |
| | SWD | LLL NVD GAU-21 INTRO | 2611R | 2611R | 2611R | 2611R |
| ANSQ | ANSQ | LLL NVD TERF/NAV | 2702R | 2702R | | |
| | ANSQ | LLL NVD SECTION TAC | 2703 | | | |
| | ANSQ | LLL NVD TAC ASPT | 2704R | 2704R | 2704R | 2704R |

***NOTE***

Specific Maintain events are selected by community SMEs to update corresponding skills in the Attain table. Maintaining proficiency in these select events will ensure the individual will never go delinquent in that corresponding skill in the Attain table.

3.4 INDIVIDUAL MISSION SKILL PROFICIENCY REQUIREMENTS

3.4.1 Management of individual MSP serves as the foundation for developing proficiency requirements in DRRS-MC.

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

3.4.3 Proficiency is attained by individual Mission Skill where the training events for each skill are determined by POI assignment.

3.4.4 Once proficiency has been attained by Mission Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the Maintain table and in the Maintain POI column of the Attain and Maintain Table. An individual maintains proficiency by individual Mission Skill.

***Note***

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

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

| MISSION SKILLS (3000 Phase) ATTAIN AND MAINTAIN PROFICIENCY | | | | | | |
|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | ATTAIN PROFICIENCY | | | MAINTAIN PROFICIENCY |
| | | | BASIC POI | REFRESHER POI | SERIES CONV POI | |
| ESC | ESC | HELO ESCORT | 3100 | | | |
| | ESC | NIGHT HELO ESCORT | 3101R | 3101R | | 3101R |
| | ESC | SURFACE ESCORT | 3103 | | | |
| | ANSQ | LLL NVD TERF/NAV | 2702R | 2702R | | 2702R |
| ASPT | ASPT | FASTROPE | 3200R | 3200R | | |
| | ASPT | NVD FASTROPE | 3201R | 3201R | | 3201R |
| | ANSQ | LLL NVD TERF/NAV | 2702R | 2702R | | 2702R |
| AD | AD | TAC LOADING | 3206 | | 3206 | |
| | AD | EXTERNALS | 3207R | 3207R | 3207R | 3207R |
| | ANSQ | LLL NVD TERF/NAV | 2702R | 2702R | | 2702R |
| CAS | CAS | CAS | 3303R | 3303R | | 3303R |
| | ANSQ | LLL NVD TAC ASPT | 2704R | 2704R | 2704R | 2704R |
| FAC(A) | FAC(A) | FAC(A) | 3403R | 3403R | | 3403R |
| | ANSQ | LLL NVD TAC ASPT | 2704R | 2704R | 2704R | 2704R |

***NOTE***

Specific Maintain events are selected by community SMEs to update corresponding skills in the Attain table. Maintaining proficiency in these select events will ensure the individual will never go delinquent in that corresponding skill in the Attain table.

## 3.5 INDIVIDUAL CORE PLUS SKILL PROFICIENCY REQUIREMENTS

3.5.1 Management of individual CPSP serves as the foundation for developing proficiency requirements in DRRS-MC.

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

3.5.3 Proficiency is attained by individual Core Plus Skill where the training events for each skill are determined by POI assignment.

3.5.4 Once proficiency has been attained by Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the Maintain table and in the Maintain POI column of the Attain and Maintain Table. An individual maintains proficiency by individual Core Plus Skill.

***Note***
Individuals may be attaining proficiency in some Core Plus Skills while maintaining proficiency in other Core Plus Skills.

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

| CORE PLUS (4000 Phase) ATTAIN AND MAINTAIN PROFICIENCY | | | | | | |
|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | ATTAIN PROFICIENCY | | | MAINTAIN PROFICIENCY |
| | | | BASIC POI | REFRESHER POI | SERIES CONV POI | |
| RIE | ASPT | PARADROP OPS INTRO | 4100 | | | |
| | ASPT | HELOCAST INTRO | 4101 | | | |
| | ASPT | SPIE INTRO | 4102R | 4102R | | 4102R |
| | ASPT | MAT INTRO/HIE | 4104R | 4104R | | 4104R |
| | ASPT | RAPPEL | 4105R | 4105R | | 4105R |
| | ANSQ | LLL NVD TERF/NAV | 2702R | 2702R | | 2702R |
| CAS | CAS | URBAN CAS | 4200R | 4200R | | 4200R |
| | ANSQ | LLL NVD TAC ASPT | 2704R | 2704R | 2704R | 2704R |
| AAD | DACM | Air-to-air gunnery | 4300R | 4300R | | 4300R |
| | DACM | 1V1 RW | 4301R | 4301R | 4301R | 4301R |
| | DACM | 2V1 RW | 4302R | 4302R | | 4302R |
| | DACM | 1V1 FW | 4304 | | | |
| | DACM | 2V2 FW | 4305R | 4305R | | 4305R |
| CBRN | CBRN | A/P23P-14A(V) OR A/P | 4400R | 4400R | | 4400R |
| CQ | CQ | DAY CQ | 4600R | 4600R | | |
| | CQ | NVD CQ | 4601R | 4601R | | 4601R |
| | CQ | UNAIDED CQ | 4602R | 4602R | | |
| | ANSQ | LLL NVD TERF/NAV | 2702 | | | 2702 |

***NOTE***

Specific Maintain events are selected by community SMEs to update corresponding skills in the Attain table. Maintaining proficiency in these select events will ensure the individual will never go delinquent in that corresponding skill in the Attain table.

3.6 REQUIREMENTS, QUALIFICATION AND DESIGNATION TABLES. The tables below delineate T&R events required to be completed to attain proficiency, and initial qualifications and designations. In addition to event requirements, all required stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to completing final events. Qualification and designation letters shall be signed by the commanding officer and placed in the individual's NATOPS jacket. Loss of proficiency in all qualification events causes the associated qualification to be lost. Regaining a qualification requires completing all R-coded syllabus events associated with that qualification.

| UH-1Y CC/AO INDIVIDUAL QUALIFICATION REQUIREMENTS | |
|---|---|
| **Qualification** | **Event Requirements** |
| NATOPS | 6101, IAW OPNAV 3710.7 and an annual qualification letter signed by the commanding officer. |
| TERF | 2100, 2101, 2400, 2401 |
| NSQ | TERFQ, 2300, 2301, 2402, 2403 |
| ANSQ | NSQ, 2702, 2703, 2704 and one of the following [2609, 2610 or 2611, must manually verify completion of these events in M-SHARP] |
| CQ | 2501, 4600 |
| NVDCQ | 2501, 2502, 4600, 4601 |
| UNAIDED CQ | 2501, 2502, 4600, 4602 |
| RWDACM | TERFQ, 4301, 4302 |
| FWDACM | TERFQ, 4304, 4305 |
| AG GAU-17/A | ANSQ, 2601, 2605, 2609, 3101, 3303, 6301 |
| AG M240D | ANSQ, 2602, 2606, 2610, 3101, 3303, 6302 |
| AG GAU-21 | ANSQ, 2603, 2607, 2611, 3101, 3303, 6303 |

| UH-1Y CC/AO INDIVIDUAL DESIGNATION REQUIREMENTS | |
|---|---|
| **Designation** | **Event Requirements** |
| CC/AO | CSIX-1901 |
| FRSI | AGI GAU-17/A, AGI M-240D, AGI GAU-21, 5300, 5301 |
| TERFI<br>AGI GAU-17/A<br>AGI M-240D<br>AGI GAU-21<br>DACMI<br>NSFI<br>NSSI<br>NSI<br>WTI | IAW the MAWTS-1 Course Catalogs. Designations for TERFI and AGI are signed by the unit commanding officer. DACMI, NSI, and WTI designations are signed by the MAWTS-1 Commanding Officer and forwarded to squadron commanding officers. Squadron commanding officers should designate crew chiefs who satisfactorily complete the evaluation flight(s) and have an ATF filed in the APR. FRS and SAR commanding officers should designate NSFIs and NSSIs as appropriate per the MAWTS-1 Course Catalog. |

3.7 PROGRAMS OF INSTRUCTION (POI). In accordance with POI updating rules, in order for all events in a stage to be updated once the R coded events for the stage have been flown, there has to be a previously flown date present, either proficient or delinquent, otherwise the event will be recognized as incomplete and must be flown. ***Therefore, all refresher and series conversion aircrew shall ensure previously flown events are logged, based on the last date flown.*** If the flight was flown under a previous T&R (UH-1Y or UH-1N), reference the UH-1Y Syllabus Matrix at the end of the Chapter to ensure events are converted correctly. ***Enlisted Aircrew Training Managers (EATM) shall ensure enlisted aircrew are placed in the appropriate syllabus (B, R, SC) in MSHARP, in order to ensure MSHARP functions properly.***

3.7.1 Basic/Transition (B/T) POI. The Transition POI mirrors the Basic POI. Basic and Transition enlisted aircrew are required to fly the entire syllabus.

3.7.2 Series Conversion (SC) POI. The Series Conversion syllabus is provided for personnel proficient in the UH-1N converting directly to the UH-1Y. After performing event conversion in accordance with (T&R Syllabus Matrix), previously designated UH-1N aircrew in the Series Conversion syllabus shall fly all "SC" coded events if the crewmember is proficient in the UH-1N. The Series Conversion syllabus is predicated on the experience of the Series Conversion aircrew and is primarily designed for aircrews that are not out of the UH-1N for longer than 485 days and is beginning the series conversion within days of the last UH-1N flight. Aircrew that fall outside this date window shall comply with the Refresher POI syllabus. The commanding officer may tailor the Series Conversion syllabus to fit the experience, and proficiency, of the Series Conversion aircrew per T&R Program Manual. All UH-1N aircrew qualified and proficient LLL that are undergoing a Series Conversion syllabus may fly all "NS" and "(NS)" flights under HLL or LLL conditions. M-SHARP will not automatically convert UH-1N events for proficiency in the UH-1Y. The training officer will have to manually enter these dates, for each aircrew, before commencing training in the Series Conversion POI.

3.7.2.1 Upon completion of SWD-2609, SWD-2610 and ASPT-2704 events for the Series Conversion syllabus, the crewmember may be re-designated/qualified ANSQ LLL, AG GAU-17/A, AG M-240D, TERFI, AGI GAU-17/A, AGI M-240D, NSI, and WTI (if previously held in the UH-1N) as appropriate by the squadron commanding officer. CQ and DACM events are not required to be completed prior to regaining the above qualifications/designations in the series conversion syllabus.

3.7.2.2 Upon completion of DACM-4301 events for the Series Conversion syllabus, the crewmember may be re-designated/qualified RWDACM, FWDACM and DACMI (if previously held in the UH-1N) as appropriate by the squadron commanding officer.

3.7.2.3 For series conversion from the UH-1Y to the UH-1N see the UH-1N T&R.

| WEEKS | COURSE | PERFORMING ACTIVITY |
|---|---|---|
| 1 | UH-1Y Familiarization | USMC UH-1Y FRS |
| 2 | Ground School | USMC UH-1Y FRS |
| 3-8 | Core Skill Introduction Training | USMC UH-1Y FRS |
| 9-14 | Core Skill/Mission Skill Training | Tactical Squadron |
| 15-16 | Core Plus Skill Training | Tactical Squadron |

3.7.3 Refresher (R) POI. A Refresher syllabus is provided for personnel returning to an operational squadron who have previously completed the UH-1Y Basic or Series Conversion POI. Experienced aircrew (completed at least one fleet tour in an operational unit) returning to a squadron, who have not flown in an UH-1Y for more than 485 days shall be placed in the Refresher POI.

3.7.3.1 The Refresher syllabus is predicated on the experience of the Refresher aircrew. Aircrew in the Refresher syllabus should fly all "R" coded events; however, aircrew need not fly every event within a stage of training to be re-qualified in that stage. The commanding officer may tailor the Refresher syllabus to fit the experience of the Refresher aircrew per the T&R Program Manual. This assumes that the Refresher has had previous proficiency in that stage of training. If the aircrew has no previous proficiency in a stage or particular event, then the aircrew should fly the entire stage or all events not previously flown. The Refresher syllabus applies only up to the stage achieved during the prior tour. After completion of appropriate Refresher syllabus, the aircrew will complete the entire remaining syllabus. Prerequisites apply only to replacement aircrew and not to Refresher aircrew.

3.7.3.2 Previously designated UH-1N aircrew shall complete all R coded events that are delinquent or incomplete and any other (non R coded) events that are also incomplete. Incomplete events will either be new events with no direct comparison to a UH-1N event or an event with no proficiency date because the aircrew never performed it in the UH-1N. ***M-SHARP will not automatically convert UH-1N T&R syllabus codes for proficiency in the UH-1Y. The Enlisted Aircrew Training Manager will have to manually enter these dates for each CC/AO before commencing Core Skill training in the Refresher POI at the tactical unit.*** At the discretion of the commanding officer, aircrew under the Refresher POI who were previously ANSQ qualified may conduct NS or (NS) Refresher syllabus events under HLL or LLL conditions.

| WEEKS | COURSE | PERFORMING ACTIVITY |
|---|---|---|
| 1 | UH-1Y Familiarization | Tactical Squadron |
| 2-3 | Ground School | Tactical Squadron |
| 4-8 | Core Skill Introduction Training | Tactical Squadron |
| 9-18 | Core Skill/Mission Skill Training | Tactical Squadron |
| 19-21 | Core Plus Skill Training | Tactical Squadron |

3.7.4 MAWTS-1 Level Instructor POI

| WEEKS | COURSE | PERFORMING ACTIVITY |
|---|---|---|
| 24 | Night Systems Instructor | MAWTS-1 |
| 24 | Defensive Aerial Combat Maneuvering Instructor | MAWTS-1 |

3.7.5 BASIC/TRANSITION, SERIES CONVERSION AND REFRESHER AERIAL OBSERVER

| WEEKS | COURSE | PERFORMING ACTIVITY |
|---|---|---|
| 1 | UH-1Y Familiarization | Tactical Squadron |
| 2-3 | Ground School | Tactical Squadron |
| 4-17 | Core Skill Introduction Training | Tactical Squadron |
| 18-121 | Core Skill/Mission Skill Training | Tactical Squadron |
| 51-141 | Core Plus Skill Training | Tactical Squadron |

3.8 ACADEMIC TRAINING

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

3.8.2 Academic training requirements are listed separately for each phase of flight training. Training may be completed earlier in stage but should be completed by the appropriate sortie(s). Course descriptions are as follows:

3.8.2.1 Interactive Courseware (ICW). This is a Computer Based Training (CBT) syllabus for Core Skill Introduction training. It consists of both self-paced lessons and instructor-presented phase lectures.

3.8.2.2 Academic Support Package (ASP). These are MAWTS-1 prepared classes available on CD-ROM or the MAWTS-1 websites. All material is contained on CDs or the websites, both classified and unclassified. These can be either self-paced lessons or instructor-presented lectures. The classes listed are only the Generics, Common or Specific UH-1 classes.

3.8.2.3 Computer Based Training. These are software and/or hardware

computer training aids designed to augment training for specific systems.

3.8.2.4 Squadron Developed Training. Squadron-developed curriculum is used to enhance the above programs. Recognition training should be continuous.

3.8.2.5 Websites. The MAWTS-1 websites have classes, publications and other pertinent material and are included below.

NIPR:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/ASD/UH-1%20Division.aspx

SIPR: http://www.mawts1.usmc.smil.mil/ Click on Departments, UH-1 for general information, then select Departments, Academics, Generics, Common or Specific for WTI classified and unclassified courseware. Click on ASP for Academic Support Package courseware.

3.8.2.6 Graduate Level Courses. There are 9 graduate level courses (TERFI, AGI GAU-17, AGI M240D, AGI GAU-21, NSFI, NSSI, DACMI, NSI, and WTI) that qualify instructors for specific portions of the T&R syllabus. The requirements for these instructor certifications are contained in the MAWTS-1 Course Catalogs.

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

| COURSE | ACTIVITY |
|---|---|
| Survival, Evasion, Resistance, and Escape (SERE) Course | NAS Brunswick ME<br>NAS North Island CA |
| NITE lab | Any Approved Course |
| Weapons and Tactics Instructor (WTI) Course | MAWTS-1 |

3.9 EVENT REQUIREMENTS

3.9.1 General. The MAWTS-1 Course Catalog contains a summary matrix of all ground, academic, simulator, and flight requirements for each stage of the T&R. This matrix will be put in the Aircrew Performance Record (APR) of all aircrew to thoroughly track training progression. As each training event is completed, the EATM will input the date of completion.

All events, to include simulators, shall begin with a comprehensive brief with emphasis on administrative procedures, CRM, Tactical procedures, mission performance standards and aircrew expectations.

All flights shall terminate with a comprehensive debrief with emphasis on aircrew performance utilizing all evaluation techniques available (e.g. videotape, participating aircrews, external support personnel).

An ATF is required for any initial event completed by a Basic/Transition, Refresher or Series Conversion aircrew, or as recommended by the Squadron Standardization Board. If the commanding officer has waived/deferred a syllabus sortie, the squadron training officer shall place a waiver/deferral letter in section 3 of the APR. Standardized ATFs can be obtained by the T&R sponsor, MAWTS-1.

All aircrew will have an APR. The EATM shall ensure each ATF is entered in section 3 of the APR.

When operational commanders assign HMLA squadrons to prolonged commitments where specific T&R training is not available (e.g., MEU deployments, sustained combat deployments), it is expected that degradation

in some mission areas will occur. Commanding officers are authorized to defer training in specific missions that are not relevant to their current deployment situation. Once the squadron or detachment has returned from the deployment, every effort should be made to achieve the deferred training for the affected crewmember.

Compliance with the written flight description is mandatory for syllabus event completion. In the absence of a flight simulator, completion of a syllabus event is not required to complete that stage. Completion of those events should be accomplished as soon as practical upon simulator availability. Should the command desire, simulator events can be flown in the aircraft for T&R credit.

Training should be accomplished by flying events within a stage in sequence and stages in sequence when practical. As an example, prerequisites allow a CCUI/AOUI to fly events in other stages while waiting for the next HLL or LLL period.

Specific rules of conduct requirements for individual type missions (NVG training, CQs, DACM, etc.) can be found in Chapter 3 of the Aviation T&R Program Manual.

3.9.2 Event Header

3.9.2.1 Sortie Duration. Times indicated for each event are recommendations. When scheduling sorties, Enlisted Aircrew Training Managers are allowed to schedule additional training codes based on anticipated mission sets. This is allowed as long as the performance standards are met for each sortie and sufficient time is available during the flight to accomplish those sorties. If multiple syllabus events are to be accomplished during a single flight evolution, appropriate planning, briefing, and debriefing time shall be allotted to ensure that requisite training objectives can be met.

3.9.2.2 Refly Factor. Refly (proficiency interval) factors reflect the maximum time between syllabus events. Refly factors are delineated in days. If not applicable, an asterisk (*) will be used to indicate the event has no refly interval - it is a one-time training requirement (unless R-coded).

3.9.2.3 Programs of Instruction. Delineates event requirements for specific syllabi.

3.9.2.4 Event Conditions. Refer to the following table for required event conditions:

| Code | Environmental Condition |
|---|---|
| D | Shall be flown or conducted during day. |
| N | Shall be flown or conducted at night (using available night vision devices or flown unaided). |
| (N) | May be flown or conducted day or night; if at night, available night vision devices may be used or flown unaided. |
| NS | Shall be flown or conducted at night using available night vision devices. |
| (NS) | May be flown or conducted day or night; if at night, available night vision devices shall be used. |
| N* | Event Shall be flown or conducted at night unaided. |
| (N*) | Event may be flown or conducted at night; if at night, shall be flown unaided. |

3.9.2.5 "E"-Coded Events. Delineates a special event that requires an evaluation. The "E"-coded event also requires an ATF upon execution of every occurrence.

3.9.2.6 Device Codes. Refer to the following table for device codes:

| Symbol | Device |
|---|---|
| A | Event performed in aircraft. |

| | |
|---|---|
| S | Event performed in simulator or a simulated practical application. |
| A/S | Event performed in aircraft preferred/simulator optional. |
| S/A | Event performed in simulator preferred/aircraft optional. |

3.9.3 Event Body

3.9.3.1 Requirement. The requirement lists specific tasks for the event and indicates what the individual should accomplish.

3.9.3.1.1 Discuss. The IP shall discuss a procedure or maneuver during the brief, in flight, or debrief. The CCUI/AOUI is responsible for knowledge of the applicable procedures prior to the brief.

3.9.3.1.2 Demonstrate. The ICC performs the procedure with accompanying description. The CCUI/AOUI observes the procedure and is responsible for the knowledge of the procedure prior to the sortie.

3.9.3.1.3 Introduce. The ICC may perform the procedure with an accompanying description, or the ICC may coach the CCUI/AOUI through the procedure without demonstration. The CCUI/AOUI shall perform the procedure with coaching, as necessary, and is responsible for knowledge of the procedure prior to the sortie.

3.9.3.1.4 Review. The ICC observes and grades the procedure without coaching the CCUI/AOUI. An airborne critique of the CCUI/AOUI performance is at the option of the instructor. The CCUI/AOUI is expected to perform the procedure without coaching and devoid of procedural error at a level acceptable to warrant progress into the next stage of training.

3.9.3.2 Performance Standards. Performance standards are listed for each T&R event description. These are training standards for individual aircrew performance and shall be utilized by the evaluator as a guideline to determine the satisfactory completion of each event. If the aircrew did not successfully attain the performance standards, the training code shall not be logged as a completed flight. ***Logging multiple training codes on an initial single sortie shall be avoided.***

3.9.3.2.1 Crew served weapons ordnance delivery standards for all phases of training are defined in the following table.

| CREW SERVED WEAPONS ENGAGEMENT STANDARDS | | |
|---|---|---|
| CORE SKILL INTRODUCTION & CORE SKILL PHASE (1000 & 2000) | | |
| DAY & HLL | | |
| RANGE | MAJORITY OF IMPACTS | PERFORMANCE |
| 1500 METERS | Within 50 meter radius | Rounds on target by second burst |
| 1000 METERS | Within 25 meter radius | |
| 500 METERS | Within 15 meter radius | |
| LLL | | |
| RANGE | MAJORITY OF IMPACTS | PERFORMANCE |
| 1500 METERS | Within 40 meter radius | Rounds on target by second burst |
| 1000 METERS | Within 20 meter radius | |
| 500 METERS | Within 10 meter radius | |
| MISSION SKILL PHASE (3000) | | |
| RANGE | MAJORITY OF IMPACTS | PERFORMANCE |
| 1500 METERS | Within 40 meter radius | Rounds on target by second burst |
| 1000 METERS | Within 20 meter radius | |
| 500 METERS | Within 10 meter radius | |
| CORE SKILL PLUS PHASE (4000) | | |
| RANGE | MAJORITY OF IMPACTS | PERFORMANCE |
| 1500 METERS | Within 40 meter radius | Rounds on target by second burst |
| 1000 METERS | Within 20 meter radius | |
| 500 METERS | Within 10 meter radius | |
| REQUIREMENTS & QUALIFICATIONS PHASE (6000) | | |
| RANGE | MAJORITY OF IMPACTS | PERFORMANCE |
| 1500 METERS | Within 30 meter radius | First burst accuracy |
| 1000 METERS | Within 15 meter radius | |
| 500 METERS | Within 5 meter radius | |

3.9.3.2.2 Grading Standards

3.9.3.2.2.1 Complete. The CCUI/AOUI has demonstrated sufficient grasp of the concepts and skills to proceed to the next training evolution or be designated appropriately.

3.9.3.2.2.2 Incomplete. Describes a training event that is not declared 'Complete' due to circumstances beyond the control of the aircrew. Examples may include, but are not limited to: WX, time constraints, aircraft or simulator maintenance, external support inadequate. 'Incomplete' shall not be used to obscure reporting of a substandard performance.

3.9.3.2.2.3 Requires Additional Training (RAT). A RAT is used when the CCUI/AOUI has not yet demonstrated sufficient grasp of the required skills and concepts to progress in the syllabus. A RAT is not derogatory in nature. Instructor remediation recommendations should specifically identify the deficient area(s) for addressing shortcomings in terms of reading assignments, courseware, additional flight, simulator, or other appropriate training. The Instructor assigning a R.A.T. synopsis is responsible for ensuring the recommendation has been endorsed by Squadron leadership and adhered to by the student unless a higher authority intervenes with additional guidance.

3.9.3.2.2.4 Unsatisfactory. Identifies a condition where the CCUI/AOUI has proven unable to meet performance standards due to a lack of preparation, lack of effort, consistent inability to demonstrate improvement or resistance to instruction. Significant safety of flight incidents that are of a direct result of the CC/AO under training actions should be considered unsatisfactory. The instructor assigning this event synopsis is responsible for ensuring recommendations for remediation, if applicable, are proposed through the DSS & Operations Department.

3.9.3.3 Prerequisites. Events (academic or flight/simulator) that must be completed prior to the initiation of the event. Events preceding a "~" indicate prerequisites dependent on optional conditions (e.g. environmental and ordnance). For example SWD-2607~NS ORD, indicates that *if* the event is flown under HLL (NS) and ordnance is utilized (ORD), SWD-2607 is a required prerequisite.

3.9.3.4 Ordnance/Range/Target/External Syllabus Support. Items required to successfully complete the required training.

3.9.3.5 Crew Requirements. The crew requirements listed at the end of each event are requirements for initial stage training flights. For operational flights the minimum crew requirements are defined by OPNAVINST, NATOPS, and NAVMC 3500.14. When not clearly defined by higher directives, the squadron commanding officer, DOSS, or local SOPs may dictate the minimum crew requirements.

3.10 SECONDARY AMOS CREW CHIEF. All efforts shall be made with MMEA-84 to receive assignment of Primary MOS crew chiefs prior to utilizing the secondary AMOS program. If inventory shortages cannot be filled through MMEA-84, authorization is granted to individual unit commanding officers to train secondary AMOS 6174 under the following guidelines:

3.10.1 The number of secondary MOS crew chiefs that an individual unit commander may train is limited to the current staffing formula; 1.6 CC x primary assigned aircraft (PAA) = number of crew chiefs minus primary/additional MOS crew chiefs on hand. For example, if a squadron has

14 primary/additional MOS crew chiefs assigned, and the staffing formula computes to 19 total crew chiefs, unit commanders may only request to train a maximum of 5 secondary AMOS crew chiefs to equal PAA.

3.10.2 To ensure standardization of training and aviation adaptability, all requested trainees shall be designated an Aerial Observer prior to starting secondary AMOS training.

3.10.3 The source population shall be restricted to aviation maintenance MOS of 6114, 6154, and 6324 only. All requests shall be submitted via AMHS message format to CG TECOM ASB for approval prior to trainee starting flight syllabus. Message shall include:

(1) Organization requesting training of secondary AMOS crew chief.

(2) Name, rank, MOS, and SSN of trainee.

(3) Total number of crew chiefs rated by PAA.

(4) Total number of primary and secondary AMOS crew chiefs assigned to requesting MCC.

(5) Adequate justification for training a secondary AMOS crew chief.

(6) Faxed copy of initial AO NATOPS evaluation report (OPNAV 3710.7 form).

3.10.4 Upon receipt of request, TECOM ASB will approve/disapprove request via ASL/ASM and notify requesting command through DMS format. Approved training will be conducted in strict compliance with this Manual and MCO P1200.7, Military Occupational Specialties Manual. Additional requirements are outlined below:

3.10.4.1 To ensure MOS standardization all Core Skill Introduction (1000 level series) codes shall be flown with a current Enlisted Weapons and Tactics Instructor (MOS 6177) or NATOPS Evaluator/Instructor holding a primary MOS of 6174. Only a currently assigned and designated FRS Crew Chief instructor (FRSI) shall administer the Core Skill Introduction evaluation flight (CSIX-1901).

3.10.4.2 The Total Time to Train (TTT) secondary AMOS crew chiefs shall not exceed six months. The date of initial flight and completion of evaluation flight define the TTT.

3.10.4.3 Core Skill Introduction flights previously flown as an Aerial Observer will transfer to the training of the secondary AMOS Crew Chief, provided those flights were flown with the secondary AMOS candidate acting in the capacity of a crew chief.

3.10.4.4 Core Skill Introduction flights not previously flown or that do not meet the above requirement shall be flown with the secondary AMOS candidate acting in the capacity of a crew chief.

3.10.5 Only the FRS commanding officer has the authority to designate the secondary AMOS of 6174. The evaluation flight may be flown at the respective FRS or individual requesting squadron. Requesting commands shall coordinate with the FRS for scheduling of the evaluation flight. TAD funding for either

the trainee or FRS CC instructor shall be the responsibility of the requesting squadron.

3.10.6 The FRSI shall administer the oral and Core Skill Introduction evaluation flight (CSIX-1901) and closed book NATOPS examination. Prior to Core Skill Introduction evaluation flight parent commands shall ensure:

(1) Nominees complete squadron approved open book NATOPS examination.

(2) Prior to designation, nominees shall attend SERE training.

3.10.7 Upon completion of Core Skill Introduction evaluation flight, copies of all certifications and evaluations shall be submitted to the FRS Commanding officer for secondary AMOS certification/approval. Documents to be submitted are:

(1) Copy of current flight physical.

(2) Copy of physiology/water survival Form 3760.32.

(3) Copy of all crew chief 1000 series ATFs.

(4) Copy of current flight orders.

(5) Copy of section III(c), examination record, OPNAV 3760/32G.

(6) Copy of initial AO evaluation form, OPNAV 3710.7.

(7) Original Crew Chief evaluation form, OPNAV 3710.7.

(8) Copy of SERE completion certificate.

(9) Marines listed as instructor on 1000 phase ATFs must submit a copy of respective WTI certificate or NATOPS Evaluator/Instructor designation. The primary purpose of this documentation is to assist the model manager in tracking the certification process and identifies positive/negative trends in the training process. Evaluation standards applicable to primary MOS crew chiefs shall be strictly adhered to for secondary AMOS crew chiefs.

3.10.8 The FRSI shall forward original OPNAV 3710.7 form to FRS Commanding officer for approval. The FRS commanding officer shall sign the NATOPS evaluation and a Crew Chief designation letter and forward to the originating command for insertion into trainees NATOPS jacket.

3.10.9 In order to facilitate management of the MOS end strengths, secondary AMOS crew chiefs desiring a primary 6174 MOS will forward the appropriate AA form to MMEA-6 requesting a lateral move from a secondary AMOS Crew Chief to a primary MOS Crew Chief.

3.10.10 On hand primary designated MOS Crew Chiefs shall have priority for crewmember flight orders IAW MCO 1326.2G, Administration of Temporary Indefinite Flight Orders.

3.10.11 Core Skill, Mission Skill, and Core Plus Skill events previously completed by the secondary AMOS crew chief in the Aerial Observer syllabus may transfer to their crew chief syllabus upon designation by the FRS

Commanding officer and at the discretion of the crewmember's commanding officer. Flights not previously completed as an Aerial Observer shall be flown by the AMOS Crew Chief; an ATF shall be written and filed in their APR. Qualifications attained previously may transfer at the unit commanding officer's discretion.

3.10.12 This policy applies to Marines currently in training and is effective immediately. This is not applicable to Marines designated prior to this revision, or Marines currently assigned to the Executive Flight Detachment of HMX-1.

## 3.11 CORE SKILL INTRODUCTION ACADEMIC PHASE (1000)

3.11.1 Purpose. To develop a Core Skill Introduction complete crew chief or aerial observer. These academics facilitate understanding of basic functions/operations in the UH-1Y and ensure individuals possess the requisite knowledge to perform entry level crewmember functions.

3.11.2 General. These academics are intended to be an integrated series of academic events contained within each phase of training. Accordingly, academic events serve as pre-requisites to selected flight events or stages.

Core Skill Introduction academic events are listed below.

| CORE SKILL INTRODUCTION PHASE | |
|---|---|
| TRAINING CODES | COURSEWARE |
| ACAD-1000 | CURRENT FRS ACADEMIC SYLLABUS |

## 3.12 CORE SKILL INTRODUCTION PHASE (1000)

3.12.1 Purpose. To develop a Core Skill Introduction complete Crew Chief or Aerial Observer, and to prepare the CCUI/AOUI for follow on Core Skill Phase training. At the completion of this phase the CCUI/AOUI will be designated as a crew chief or aerial observer.

3.12.2 General. Completion of this phase meets the requirements for the designation as a Crew Chief with an MOS of 6174 or an Aerial Observer with an MOS of 6199. At the discretion of the squadron commanding officer a letter designating the CC/AO, shall be placed in the NATOPS jacket and an entry made in the flight log book.

The Core Skill Introduction phase flight syllabus must be completed within (6) months (180) days following the first CCUI/AOUI flight. If six months have elapsed since the completion of any CCUI AOUI flight, that flight must be re-flown prior to completing the CSIX-1901.

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

| CORE SKILL INTRODUCTION PHASE | |
|---|---|
| PAR NO. | STAGE NAME |
| 3.12.3 | Familiarization (FAM) |
| 3.12.4 | Formation (FORM) |
| 3.12.5 | Terrain Flight (TERF) |
| 3.12.6 | Navigation (NAV) |
| 3.12.7 | Specific Weapons Delivery (SWD) |
| 3.12.8 | Assault Support (ASPT) |
| 3.12.9 | Core Skill Introduction Check (CSIX) |

3.12.3 Familiarization (FAM)

3.12.3.1 Purpose. To develop familiarity with aircraft flight characteristics, limitations, and emergency procedures during day and night operations. Develop proficiency in assisting pilots in all aspects of FAM flight and to instill basic CRM procedures throughout the familiarization stage.

3.12.3.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated the ability to assist pilots in all aspects of FAM flight, both day and night.

AOUI Requirement. FAM-1100 through 1102

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

FAM-1100 1.5 * D A 1 UH-1Y

Goal. Introduce normal ground and flight procedures.

Requirements

Discuss
- Engine Fire on Start (external)
- APU Fire

Demonstrate
- Use of ICS
- Voice procedures
- Lighting
- Using the clock code system
- Estimating distance

Introduce
- Preflight
- Starting
- Taxi
- Takeoff
- In-flight
- Lookout
- Landing
- Postflight

Performance Standards
- Display knowledge of ICS voice procedure and all applicable emergency procedures.
- Perform crewmember duties during all phases of flight in accordance with UH-1Y NATOPS.

Prerequisite. ACAD-1000

Crew. FRSI or TERFI/CCUI or AOUI

FAM-1101 1.5 * SC D A 1 UH-1Y

Goal. Introduce communications, passenger procedures, normal and

emergency procedures.

Requirements

Discuss
Engine Failures in Flight
Fire in flight
Smoke and Fumes Elimination
Ditching procedures
Aircraft, engine, and transmission limitations

Introduce
Precautionary/emergency landings
Autorotations
Communication/navigation equipment (CDNU)
Passenger briefs
Passenger emergency procedures
Weight and balance calculations
Responsibilities during loading

Performance Standards
Display knowledge of ICS voice procedures and all applicable emergency procedures.

Perform crewmember duties during all phases of flight in accordance with UH-1Y NATOPS.

Prerequisite. FAM-1100

Crew. FRSI or TERFI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| FAM-1102 | 1.5 | * | SC | NS | A | 1 UH-1Y |

Goal. Introduce NVD techniques (HLL).

Requirements

Discuss
NVD preflight/adjustment/focusing
NVD eye lane
ANV-20-20 Eye Lane System Resolution Test Set use
NVD emergencies/malfunctions
Aircraft emergencies while using NVDs
Aircrew coordination

Introduce
Wear and use of NVDs

Performance Standards
Display ability to perform crewmember duties using NVDs.

Prerequisite. FAM-1101

Crew. NSFI or NSI/CCUI or AOUI

3.12.4 Formation (FORM)

3.12.4.1 Purpose. To become familiar with crew functions and responsibilities required during formation flying.

3.12.4.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated the ability to assist pilots in all aspects of formation flight, both day and night.

AOUI requirements. FORM-1301

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

FORM-1301 1.5 * D A 2 UH-1Y

Goal. Introduce formation flight and tactical formation flight maneuvering.

Requirements

Discuss
- Parade
- Cruise
- Combat cruise
- Combat spread
- Tac turn
- Center turn
- In-place turn
- Split turn
- Cross turn
- Break turn
- Dig and pinch/resume
- Reversal
- Shackle turn
- Cover
- Ordnance delivery patterns

Introduce
- Tactical formations
- Maneuvers
- Hand and arm signals

Review
- Lookout procedures
- Crewmember responsibilities

Performance Standards

Display thorough knowledge of Tactical formation maneuvers.
Demonstrate proficiency assisting pilots in Tactical formation maneuvers.

Prerequisite. FAM-1101

Crew. FRSI or TERFI/CCUI or AOUI

FORM-1303 1.5 * NS A 2 UH-1Y

Goal. Introduce NVD formation flight and tactical formation flight maneuvering (HLL).

Requirements

Review
Hand and arm signals
Lookout procedures
Crewmember responsibilities associated with formation flying at night

Performance Standards
Demonstrate proficiency assisting pilots in night formation maneuvers.

Prerequisite. FAM-1102 and 1301

Crew. NSFI or NSI/CCUI or AOUI

3.12.5 Terrain Flight (TERF)

3.12.5.1 Purpose. To develop aircrew coordination required during TERF.

3.12.5.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated the ability to assist the pilot in TERF.

AOUI requirement. TERF-1401

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

| | | | | | | |
|---|---|---|---|---|---|---|
| TERF-1401 | 1.0 | * | SC | D | A | 1 UH-1Y |

Goal. Introduce TERF techniques.

Requirements

Discuss
Aircraft clearance
Aircraft emergencies during TERF altitudes

Introduce
Blade walk
Power checks
Masking/unmasking
NOE quickstops
Bunt
Roll
Low level, contour, and NOE profiles

Performance Standards
Display knowledge and ability to assist pilots in TERF environment.

Prerequisite. FAM-1101

External Syllabus Support. Authorized TERF Area

Crew. FRSI or TERFI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| TERF-1403 | 1.0 | * | | NS | A | 1 UH-1Y |

Goal. Introduce NVD TERF techniques (HLL).

Requirements

Discuss
NVD considerations in the TERF environment

Introduce
Blade walk
Power checks
Masking/unmasking
NOE quickstops
Bunt
Roll
Low level, contour, and NOE profiles on NVDs

Performance Standards
Display knowledge and ability to assist pilots in TERF environment while using NVDs.

Prerequisites. FAM-1102, TERF-1401

External Syllabus Support. Authorized TERF Area

Crew. NSFI or NSI/CCUI or AOUI

3.12.6 Navigation Flight (NAV)

3.12.6.1 Purpose. To become familiar with crew functions and responsibilities while navigating without use of radio navigational aids.

3.12.6.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated the ability to assist the pilots in all phases of in-flight navigation.

AOUI requirement. NAV-1500

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

| | | | | | |
|---|---|---|---|---|---|
| NAV-1500 | 1.5 | * | (NS) | A | 1 UH-1Y |

Goal. Introduce aircrew duties during day or HLL navigation.

Requirements

Introduce
Checkpoints
Time distance checks
Barrier features
Prominent terrain features
Map legends
Map preparation
Route card usage

Review
Lookout procedures
Aircrew coordination required during navigation

Performance Standards

Display the knowledge and ability to assist pilots in navigation during the day or night environment.

Prerequisite. FAM-1102

Crew. FRSI or TERFI (NSFI or NSI)/CCUI or AOUI

3.12.7 Specific Weapons Delivery (SWD)

3.12.7.1 Purpose. To familiarize the aircrew with the procedures required to provide fire on targets of opportunity.

3.12.7.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated knowledge of weapons systems and ordnance delivery with crew served weapons. If there is no UH-1Y enlisted aircrew simulator or static weapons trainer available, the SSWD-1600 may be logged in conjunction with SWD-1601.

AOUI requirements. SSWD-1600 and 1601

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

SSWD-1600 1.5 * D S/A 1 UH-1Y

Goal. Introduce weapons and checklist procedures.

Requirements

Introduce
- Ordnance loading
- Preflight/post-flight of the weapon
- Operations
- Safety procedures
- Weapons conditions
- Ordnance weapons checklist
- Practice firing weapons on pre-briefed targets
- Crew coordination

Performance Standards

Display knowledge and ability to safely employ crew served weapons IAW crew served weapons engagement standards.

Prerequisite. N/A

Ordnance. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

External Syllabus Support. UH-1Y enlisted aircrew simulator or Static Weapons Trainer.

Range Requirement. Live fire range (Static Weapons Trainer)

Crew. AGI/CCUI or AOUI

SWD-1601 1.5 * D A 1 UH-1Y

Goal. Introduce aerial gunnery training.

Requirements

Discuss
Attack patterns
Section operations
Sighting procedures
Malfunction/stoppage procedures
Range estimation techniques.

Introduce
Ordnance loading
Preflight/post-flight of the weapon
Operations
Safety procedures
Weapons conditions
Ordnance weapons checklist
Practice firing weapons on pre-briefed targets
Crew coordination

Performance Standards
Display knowledge and ability to safely employ crew served weapons IAW crew served weapons employment table.

Prerequisites. FAM-1101, SSWD-1600

Ordnance. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range

Crew. AGI/CCUI or AOUI

3.12.8 Assault Support (ASPT)

3.12.8.1 Purpose. To become familiar with crew responsibilities during operations in confined areas and safely conduct hook/hoist operations. All aspects of aircrew coordination shall be thoroughly briefed.

3.12.8.2 General. At the completion of this stage, the CCUI/AOUI shall have demonstrated the ability to assist the pilot in all aspects of confined areas, Tactical Landings, and hook/hoist operations IAW UH-1Y NATOPS and NTTP 3-22.3-UH1.

AOUI requirements. ASPT-1801, 1802 and 1803.

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

Ground/Academic Training. IAW HMLAT-303 curriculum requirements.

| | | | | | | |
|---|---|---|---|---|---|---|
| ASPT-1800 | 1.5 | * | D | A | 1 | UH-1Y |

Goal. Introduce confined area operations, to include HIE approaches.

Requirement

Discuss
Settling with power
Landing zone brief
Dynamic rollover
Slope landings

Aircrew coordination
HIE approaches

Introduce
Lookout procedures during CALs
Safety procedures
Aircraft clearance from obstacles
Terrain suitability
Approach/departure routes
Wave-off procedures

Performance Standards
Display ability to safely conduct confined area landings.

Prerequisite. FAM-1101

Crew. FRSI or TERFI/CCUI

ASPT-1801 1.5 * SC D A 1 UH-1Y

Goal. Introduce Tactical Landing approaches.

Requirements

Discuss
Threat conditions
Tactical approaches/departures

Introduce
Operating in a low to high threat environment
Safety procedures
Aircraft clearance from obstacles
Terrain suitability
Approach/departure route
Wave-off procedures

Performance Standards
Display ability to safely conduct TACTICAL landings and HIE approaches per NATOPS.

Prerequisites. ASPT-1800 (FAM-1101 for AOUI)

Crew. FRSI or TERFI/CCUI or AOUI

ASPT-1802 1.5 * SC NS A 1 UH-1Y

Goal. Introduce night Tactical and Confined Area Landings while using NVDs (HLL)

Requirements

Discuss
Brown/white out
Effects of moisture
Crew coordination

Introduce
Confined area landing night operating procedures
Safety procedures
Aircraft obstacle clearance

Terrain suitability
Approach/departure routes
Wave-off procedures
Ground lighting systems

Performance Standards
Display ability to safely conduct confined area landings and Tactical landings while using NVDs.

Prerequisite. FAM-1102, ASPT-1801

Crew. NSFI or NSI/CCUI or AOUI

| | | | | | |
|---|---|---|---|---|---|
| ASPT-1803 | 1.5 | * | NS | A | 1 UH-1Y |

Goal. Review night Tactical Landings to include HIE approaches using NVDs (HLL).

Requirements

Discuss
Brown/white out
Effects of moisture
Crew coordination

Introduce
Confined area landing night operating procedures
Safety procedures
Aircraft obstacle clearance
Terrain suitability
Approach/departure routes
Wave-off procedures
Ground lighting systems

Performance Standards
Display ability to safely conduct confined area landings, Tactical landings, and HIE approaches while using NVDs.

Prerequisite. ASPT-1802

Crew. NSFI or NSI/CCUI or AOUI

| | | | | | |
|---|---|---|---|---|---|
| ASPT-1804 | 1.5 | * | D | A/S | 1 UH-1Y |

Goal. Introduce external load/hoist procedures.

Requirements

Discuss
Aircrew coordination
Hand and arm signals
ICS terminology
Hook/hoist limitations/malfunctions
Load release
Emergency procedures
Chicago grip, quick splice, and cable cutters

Introduce
Operational check of hoist/hook
Use of rescue strop and jungle penetrator

Cargo hook pendant and manual release
Emergency procedures for external hook/rescue hoist

Performance standards
Demonstrate proper ICS terminology, hook/hoist operation and installation.
Perform at least two hook-up, flight and release operations for cargo hook.
Perform two hoisting operations using a suitable weight.

Prerequisite. FAM-1101

External Syllabus Support. External weight, hoist if available

Crew. FRSI/CCUI

3.12.9 Core Skill Introduction Check (CSIX)

3.12.9.1 Purpose. To evaluate proficiency in the performance of Core Skill Introduction CC/AO duties and conduct an initial NATOPS/CRM Evaluation per the UH-1Y NATOPS and OPNAVINST 1542.7 series.

3.12.9.2 General. Upon completion of the evaluation event, the CCUI/AOUI can be designated a CC/AO at the discretion of the FRS/squadron commanding officer.

AOUI requirements. CSIX-1901

Crew Requirements. Initial CSIX-1901 for CCUI must be conducted by the FRS. Initial CSIX-1901 for AOUI may be conducted by squadron Assistant NATOPS Instructor.

Ground/Academic Training. NATOPS open book test, NATOPS closed book test and ground CRM training must be completed per the UH-1Y NATOPS and OPNAVINST 1542.7 series prior to commencing the CSIX-1901 flight event.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CSIX-1901 | 1.0 | * | SC | (NS) | E | A | 1 UH-1Y |

Goal. Core Skill Introduction NATOPS and CRM evaluation.

Requirement
Conduct a CC/AO Initial NATOPS and CRM evaluation per criteria in the UH-1Y NATOPS and OPNAVINST 1542.7 series.

Performance Standards
IAW UH-1Y NATOPS and OPNAVINST 1542.7 series.

Prerequisite. Core Skill Introduction phase complete, CRM ground training, NATOPS open book test, NATOPS closed book test

Crew. CRMF designated ANI(NSFI or NSI)/CCUI or AOUI

3.13 CORE SKILL ACADEMIC PHASE (2000)

3.13.1 Purpose. To develop a Core Skill complete Crew Chief or Aerial Observer. These academics facilitate understanding of functions/operations in the UH-1Y and ensure individuals possess the requisite knowledge to be TERF, NSQ and ANSQ qualified. The focus of this training is combat proficiency.

3.13.2 General. These academics are intended to be an integrated series of academic lectures contained within each phase of training. Accordingly, academic events are like any other event in that they serve as prerequisites to selected flight events or stages.

The lectures are contained in the MAWTS-1 Enlisted Aircrew Academic Support Package. The codes associated with these academic requirements do not require ATFs. At the completion of each ACAD event, the appropriate training code shall be logged in M-SHARP by the EATM. The codes below are for lectures only; readings and guided discussions are NOT included and are contained only in the course catalog. Reference the current UH-1Y Course Catalog for the most recent academic requirements.

Core Skill academic events are listed below.

| CORE SKILL ACADEMIC PHASE | |
|---|---|
| TRAINING CODES | COURSEWARE |
| GENERAL REQUIREMENTS | |
| ACAD-2050 | EA TACTICAL AIRCREW CONSIDERATIONS AND RESPONSIBILITIES |
| TERF | |
| ACAD-2051 | TERRAIN FLIGHT FOR ENLISTED AIRCREW |
| ACAD-2052 | EA NIGHT VISION TRAINING |
| SWD | |
| ACAD-2053 | EA FUNDAMENTALS OF AERIAL GUNNERY |
| ACAD-2055 | EA GAU-17/A MACHINE GUN |
| ACAD-2056 | EA M240D MACHINE GUN |
| ACAD-2057 | EA GAU-21 MACHINE GUN |
| ACAD-2058 | EA LASER Aiming DEVICES |
| ACAD-2059 | EA LASER BORESIGHTING |
| ANSQ | |
| ACAD-2060 | EA INTRO TO INSERTS AND RAID OPERATIONS |

3.14 CORE SKILL PHASE (2000)

3.14.1 Purpose. To produce a TERF, NSQ, and ANSQ qualified CC/AO.

3.14.2 General. Upon completion of this phase, the aircrew will be TERF, NSQ, and ANSQ complete and may conduct additional missions as specified by the Squadron Commander.

After completing TERF-2100,2101 and ASPT-2400,2401, the CCUI/AOUI meets the requirements to be Terrain Flight Qualified (TERFQ). At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as TERFQ shall be placed in the NATOPS jacket and an entry made in the flight log book.

After completing ASPT-2403, the CCUI/AOUI meets the requirements to be Night Systems Qualified (NSQ). At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as NSQ shall be placed in the NATOPS jacket and an entry made in the flight log book.

After completing ANSQ-2704, the CCUI/AOUI meets the requirements to be Advanced Night Systems Qualified (ANSQ). At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as ANSQ shall be placed in the NATOPS jacket and an entry made in the flight log book.

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

| | CORE SKILL PHASE |
|---|---|
| PAR NO. | STAGE NAME |
| 3.14.3 | Terrain Flight (TERF) |
| 3.14.4 | Reconnaissance (REC) |
| 3.14.5 | Assault Support (ASPT) |
| 3.14.6 | Field Carrier Landing Practice (FCLP) |
| 3.14.7 | Specific Weapons Delivery (SWD) |
| 3.14.8 | Advanced Night Systems Qualification (ANSQ) |

3.14.3 Terrain Flight (TERF)

3.14.3.1 Purpose. To refine proficiency in terrain flight and navigation.

3.14.3.2 General. CCUI/AOUI will demonstrate proficiency in terrain flight and navigation.

AOUI Requirement. TERF-2100 and 2101

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

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

TERF-2100 1.0 180 R D A 1 UH-1Y

Goal. Introduce TERF navigation.

Requirements

Discuss
- Safety precautions when operating in a TERF environment
- Tactical considerations during TERF
- Obstacle avoidance

Introduce
- TERF Navigation
- Use of checkpoints
- Time distance checks
- Barrier features
- Prominent terrain features
- Map legend
- Map preparation
- Route cards

Review
- TERF Profiles
- TERF maneuvers
- Blade walk
- Power checks

Performance Standards
- Demonstrate the ability to safely perform TERF navigation in low level, contour, and NOE environments.
- Demonstrate the ability to conduct all TERF maneuvers IAW the UH-1Y NATOPS, MDG and NTTP.

Prerequisites. ACAD-2050 and 2051, CSIX-1901

Range Requirement. Authorized TERF route, high bird if required

Crew. TERFI/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TERF-2101 | 1.0 | 180 | R,SC,M | NS | A | 1 | UH-1Y |

Goal. Review TERF maneuvers and navigation using NVDs (HLL).

Requirements

Discuss
- Safety precautions when operating in a TERF environment
- Safety precautions when flying on NVGs
- Terrain suitability
- TERF maneuvers at night

Introduce
- NVD lookout procedures during TERF
- Use of the ANV-20/20 NVD Infinity Focus Device

Review
- Checkpoints
- Time distance checks
- Barrier features
- Prominent terrain features
- Map legend
- Map preparation
- Route cards

Performance Standards

Demonstrate the ability to safely perform TERF navigation in low level, contour, and NOE environments.

Demonstrate the ability to conduct all TERF maneuvers IAW the UH-1Y NATOPS, MDG and NTTP.

Prerequisite. ACAD-2052, TERF-2100

Range Requirement. Authorized TERF route, high bird if required

Crew. NSI/CCUI or AOUI

3.14.4 Reconnaissance (REC)

3.14.4.1 Purpose. To develop proficiency in reconnaissance operations.

3.14.4.2 General. The CCUI/AOUI will demonstrate proficiency in sensor employment for target detection, recognition and identification during reconnaissance operations.

The CCUI/AOUI shall be familiar with the use of the Night Thermal Imaging System (NTIS). The CCUI/AOUI will safely conduct operational tasks prior to and during NTIS operations.

The SREC-2300 shall be conducted on the ground in an aircraft/simulator configured with an operable FLIR. All efforts should be made to utilize BSB II configured aircraft for these events.

AOUI Requirement. REC-2300 and 2301

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

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

SREC-2300 0.0 * (NS) A/S 1 STATIC UH-1Y

Goal. Familiarize the CCUI and AOUI with terminology, preflight, post-flight, switchology of NTIS.

Requirements

Discuss
- Terminology
- LRF operation and Laser safety considerations
- CRM as it relates to NTIS
- Integration of handheld optics and aircraft sensor systems

Introduce
- Sensor system power up
- Controller operation
- Laser operations
- Shutdown procedures

Performance Standards
- Demonstrate basic knowledge and understanding of FLIR/NTIS operations to include; track, polarity, freeze, cage, zoom and safe LRF utilization.

Prerequisite. ACAD-2050, CSIX-1901

External Syllabus Support. Aircraft with APU or auxiliary power source

Crew. NSI/CCUI or AOUI

REC-2301 1.0 365 R,M (NS) A 1 UH-1Y

Goal. Review terminology, preflight, post-flight, switchology, and flight operation of FLIR/NTIS.

Requirements

Discuss
- Terminology
- LRF operations and Laser safety considerations
- CRM as it relates to NTIS
- Integration of handheld optics and aircraft sensor systems

Review
- Sensor system power up
- Controller operation
- Laser operations
- Shutdown procedures

Performance Standards
- Demonstrate knowledge and understanding of FLIR/NTIS operations to include; track, polarity, freeze, cage, zoom and safe LRF utilization.
- Locate and demonstrate the ability to assist crew with target correlation utilizing the FLIR/NTIS.

Prerequisite. SREC-2300

Range Requirement. LASER safe range, if available

External Syllabus Support. Thermally augmented threat vehicles, if available

Crew. NSI/CCUI or AOUI

3.14.5 Assault Support (ASPT)

3.14.5.1 Purpose. To develop proficiency in section tactical approaches, landings and departures during day and HLL conditions.

3.14.6.2 General. The CCUI/AOUI will demonstrate proficiency in tactical landings, tactical approaches and section assault support skills.

AOUI Requirement. ASPT-2400 through 2403

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

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

ASPT-2400 1.5 * D A 1 UH-1Y

Goal. Develop proficiency in tactical approaches, landings and departures.

Requirements

Discuss
- Tactical approaches, landings and departures
- Individual waveoffs
- HIE operations
- Safety and NATOPS limitations
- Reduced Visibility Landings (RVLs) and CRM
- Terrain/obstacle clearance
- ICS terminology
- Crew coordination during Tactical Landing and HIE approaches

Introduce
- Tactical approaches/departures
- Slope landings
- HIE terminology and operations

Performance Standards
- Demonstrate the ability to assist pilots in a minimum of 8 landings, with a minimum of 1 simulated/actual reduced visibility landing.
- Demonstrate proper crew coordination during takeoff/landings and aircraft clearance.

Prerequisites. ACAD-2050, CSIX-1901

Crew. TERFI/CCUI or AOUI

ASPT-2401 1.5 * NS A 1 UH-1Y

Goal. Develop proficiency in tactical approaches, landings and departures utilizing NVDs during (HLL).

Requirements

Discuss
Crew coordination during Tactical Landings and HIE approaches
RVL considerations
Closure rates and drift
NVD lookout procedures during tactical landings and HIE approaches
Use of the ANV-20/20 NVD Infinity Focus Device

Introduce
Tactical approaches/departures while using NVDs
HIE terminology and operations at night

Review
Tactical approaches/departures
HIE operations
Safety and NATOPS limitations
Terrain/obstacle clearance
ICS terminology

Performance Standards
Demonstrate the ability to assist pilots in a minimum of 8 landings, with a minimum of 1 simulated/actual reduced visibility landing.
Demonstrate proper crew coordination during takeoffs/landings, and aircraft obstacle clearance.

Prerequisites. ACAD-2052, ASPT-2400

Crew. NSI/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ASPT-2402 | 1.5 | 120 | R,SC | D | A | 2 | UH-1Y |

Goal. Introduce tactical assault support ingress profiles and landing formations IAW UH-1 NTTP.

Requirements

Introduce
Section tactical approaches, landings and departures
Single Point, Single Axis Ingress Profile
Single Point, Dual Axis Ingress Profile
Multiple Point, Single Axis Ingress Profile
Multiple Point, Dual Axis Ingress Profile

Review
Tactical approaches/departures
Section mechanics
HIE operations
Safety and NATOPS limitations
Terrain/obstacle clearance
ICS terminology
Crew coordination during Tactical Landings and HIE approaches
Brown/white out considerations
Closure rates and drift

Performance Standards
Demonstrate the ability to assist pilots with minimum of 4 ingress profiles accomplished as lead and 4 ingress profiles accomplished as the wingman.
A minimum of two ingress profiles shall end in an HIE approach.

Demonstrate proper crew coordination, aircraft clearance, and wingman awareness.

Prerequisites. TERF-2100, ASPT-2400

Crew. TERFI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| ASPT-2403 | 1.5 | 120 | R,SC,M | NS | A | 2 UH-1Y |

Goal. Conduct tactical assault support ingress profiles and landing formations IAW UH-1 NTTP (HLL).

Requirements

Discuss
Previously discussed stage items.

Review
Section tactical ingress profiles, approaches, landings and departures
Simultaneous landings
Low to high rejoin IAW UH-1 NTTP
Slope landings
Section tactical approaches, landings and departures at night
NVD compatible landing zone lighting aids
Use of overt / IR searchlight
NVD scan patterns during approach and landing in lead and -2 positions
Night RVLs
Far/near ITG
Sensor usage in zone identification
Fastrope/Rappel Profiles and communication
Flight and individual waveoffs

Evaluate
CCUI's ability to assist the pilots in safely conducting tactical ingress profiles, approaches and landings under HLL conditions

Performance Standards
Demonstrate the ability to assist pilots with minimum of 4 ingress profiles accomplished as lead and 4 ingress profiles accomplished as the wingman.
A minimum of 2 ingress profiles shall end in an HIE approach.
Demonstrate proper crew coordination, aircraft clearance, and wingman awareness.

Prerequisite. REC-2301, ASPT-2400 through 2402, TERFQ

Crew. NSI/CCUI or AOUI

3.14.6 Field Carrier Landing Practice (FCLP)

3.14.6.1 Purpose. To introduce flight operations from a carrier deck or air capable ship by introducing day and night FCLPs.

3.14.6.2 General. The CCUI/AOUI will demonstrate proper communications, patterns and aviation operations in the shipboard environment. Consideration should be given to conducting FCLPs to both LSD/LPD and LHA/LHD deck configurations. Refer to appropriate NATOPS and LHA/LHD/MCS NATOPS manuals for shipboard operations.

AOUI requirement. FCLP-2501 and 2502.

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

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

FCLP-2501 1.0 365 R D A 1 UH-1Y

Goal. Introduce day FCLP operations.

Requirements

Discuss
- Types of air capable ships
- Shipboard specific crew coordination
- LSE signals
- Emergency and ditching procedures
- Wind limitation charts
- Shipboard terminology
- Alpha, Delta, and Charlie patterns
- High wind start procedures
- Hazards of Electromagnetic Radiation to Ordnance (HERO) conditions
- Passenger procedures for shipboard operations

Introduce
- Shipboard patterns
- Closure rate
- Proper ICS/Radio terminology
- Landing procedures to an FCLP pad
- High wind start procedures

Review
- Ditching procedures
- Required personal and aircraft survival equipment

Performance Standards
- Perform a high wind start.
- Conduct a minimum of 5 day FCLP landings per the UH-1Y NATOPS and shipboard NATOPS manuals.

Prerequisite. ASPT-2400

External Syllabus Support. FCLP pad

Crew. TERFI/CCUI or AOUI

FCLP-2502 1.0 365 R,M N*/NS A 1 UH-1Y

Goal. Introduce night and NVD FCLP operations.

Requirements

Discuss
- Night unaided and NVG shipboard lighting
- Night unaided and NVG safety considerations
- Aircraft lighting configurations
- Night unaided and NVG flight over open water
- Physiological effects with no horizon

Introduce
- Night unaided/NVD patterns
- Closure rate and decent rates
- Landing procedures to an FCLP pad

Review
- Ditching procedures
- Required personal and aircraft survival equipment
- Alpha, Delta and Charlie patterns
- Air capable ships
- Shipboard specific crew coordination
- LSE signals
- Shipboard terminology
- Proper ICS/Radio terminology

Performance Standards
Conduct a minimum of 5 unaided and 5 NVD landings IAW the UH-1Y NATOPS and shipboard NATOPS manuals

Prerequisite. ASPT-2401, FCLP-2501

External Syllabus Support. FCLP pad with overt and NVD deck lighting

Crew. NSI/CCUI or AOUI

3.14.7 Specific Weapons Delivery (SWD)

3.14.7.1 Purpose. To develop proficiency in SWD and weapons system employment.

3.14.7.2 General. Upon successful completion of this stage the CCUI/AOUI will demonstrate knowledge of weapons systems and proficiency in BCWD with crew served weapons. Section operations should be used if available. Weapon mounted Lasers should be used for all SWD NVD flights. Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI Requirements. SWD-2601,2602,2603,2605,2606,2607,2609,2610 and 2611

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

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog. Prior to commencing each flight, the CCUI/AOUI shall receive appropriate ground training by an Aerial Gunnery Instructor/Night Systems Instructor for the respective weapons and Laser usage.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SWD-2601 | 1.5 | 180 | R,SC | D | A | 1 | UH-1Y |

Goal. Introduce GAU-17/A machine gun employment.

Requirements

Discuss
- Safety considerations associated with ordnance evolutions
- Weapons Checklist procedures
- Crew coordination
- Attack profiles
- Range estimation
- Squadron ordnance SOPs
- CALA and Arm/De-arm procedures

Switchology

Introduce
Ordnance loading
Weapon system preflight
Weapon system employment
Weapon system post-flight
Cycle of operation
Weapon system troubleshooting and malfunction procedures
Proper switchology
Attack profiles

Review
Weapon system emergency procedures
Weapons control procedures
Verbal/non-verbal fire control commands
Fundamentals of aerial gunnery

Performance Standards
Demonstrate basic knowledge of nomenclature and cycle of operation.
Demonstrate the ability to safely and effectively employ the GAU-17/A IAW crew served weapons employment table.
Demonstrate proper disassembly, inspection and reassembly of the weapon system.

Prerequisite. ACAD-2053 and 2055, TERF-2100, ASPT-2400

Ordnance. 1,500 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. AGI/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SWD-2602 | 1.5 | 180 | R | D | A | 1 | UH-1Y |

Goal. Introduce M240D machine gun employment.

Requirements

Discuss
Safety considerations associated with ordnance evolutions
Weapons Checklist procedures
Crew coordination
Attack profiles
Range estimation
Squadron ordnance SOPs
CALA and Arm/De-arm procedures

Introduce
Ordnance loading
Weapon system preflight
Weapon system employment
Weapon system post-flight
Cycle of operation
Weapon system troubleshooting and malfunction procedures
Attack profiles

Review
Weapon system emergency procedures
Weapons control procedures

Verbal/non-verbal fire control commands
Fundamentals of aerial gunnery

Performance Standards
Demonstrate basic knowledge of nomenclature and cycle of operation.
Demonstrate the ability to safely and effectively employ the M240D IAW crew served weapons employment table.
Demonstrate proper disassembly, inspection and reassembly of the weapon system.

Prerequisites. ACAD-2053 and 2056, TERF-2100, ASPT-2400

Ordnance. 400 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. AGI/CCUI or AOUI

SWD-2603 1.5 180 R D A 1 UH-1Y

Goal. Introduce GAU-21 .50 caliber machine gun employment.

Requirements

Discuss
Safety considerations associated with ordnance evolutions
Weapons Checklist procedures
Crew coordination
Attack profiles
Range estimation
Squadron ordnance SOPs
CALA and Arm/De-arm procedures

Introduce
Ordnance loading
Weapon system preflight
Weapon system employment
Weapon system post-flight
Cycle of operation
Weapon system troubleshooting and malfunction procedures
Attack profiles

Review
Weapon system emergency procedures
Weapons control procedures
Verbal/non-verbal fire control commands
Fundamentals of aerial gunnery

Performance Standards
Demonstrate basic knowledge of nomenclature and cycle of operation.
Demonstrate the ability to safely and effectively employ the GAU-21 IAW crew served weapons employment table.
Demonstrate proper disassembly, inspection and reassembly of the weapon system.

Prerequisites. ACAD-2053 and 2057, TERF-2100, ASPT-2400

Ordnance. 600 rounds .50 cal

Range Requirement. Aerial gunnery range

Crew. AGI/CCUI or AOUI

| | | | | | |
|---|---|---|---|---|---|
| SWD-2605 | 1.5 | * | NS | A | 1 UH-1Y |

Goal. Introduce GAU-17/A machine gun employment (HLL).

Requirement

Discuss
- Safety considerations associated with ordnance evolutions during night time operations
- Range estimation
- CALA and Arm/De-arm procedures
- Laser Aiming Devices

Introduce
- Weapons employment during NVD operations
- Preflight, post-flight, and usage of Laser Aiming Devices
- Laser terminology

Review
- Weapons Checklist procedures
- Crew coordination
- Attack profiles
- Switchology

Performance Standards
- Demonstrate detailed knowledge of nomenclature and cycle of operation.
- Demonstrate the ability to safely and effectively employ the GAU-17/A IAW crew served weapons employment table.
- Demonstrate proper jam clearing and troubleshooting techniques while using NVDs.

Prerequisites. ACAD-2058 and 2059, SWD-2601, TERFQ

Ordnance. 1,500 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

| | | | | | |
|---|---|---|---|---|---|
| SWD-2606 | 1.5 | * | NS | A | 1 UH-1Y |

Goal. Introduce M240D machine gun employment (HLL).

Requirements

Discuss
- Safety considerations associated with ordnance evolutions during night time operations
- Range estimation
- CALA and Arm/De-arm procedures
- Laser Aiming Devices

Introduce
- Weapons employment during NVD operations
- Preflight, post-flight, and usage of Laser Aiming Devices
- Laser terminology

Review
Weapons Checklist procedures
Crew coordination
Attack profiles

Performance Standards
Demonstrate detailed knowledge of nomenclature and cycle of operation.
Demonstrate the ability to safely and effectively employ the M240D IAW crew served weapons employment table.
Demonstrate proper jam clearing and troubleshooting techniques while using NVDs.

Prerequisites. ACAD-2058 and 2059, SWD-2602, TERFQ

Ordnance. 400 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

| | | | | | |
|---|---|---|---|---|---|
| SWD-2607 | 1.5 | * | NS | A | 1 UH-1Y |

Goal. Introduce GAU-21 .50 caliber machine gun employment (HLL).

Requirements

Discuss
Safety considerations associated with ordnance evolutions during night time operations
Range estimation
CALA and Arm/De-arm procedures
Laser Aiming Devices

Introduce
Weapons employment during NVD operations
Preflight, post-flight, and usage of Laser Aiming Devices
Laser terminology

Review
Weapons Checklist procedures
Crew coordination
Attack profiles

Performance Standards
Demonstrate detailed knowledge of nomenclature and cycle of operation.
Demonstrate the ability to safely and effectively employ the GAU-21 IAW crew served weapons employment table.
Demonstrate proper jam clearing and troubleshooting techniques IAW checklist procedures while using NVDs.

Prerequisite. ACAD-2058 and 2059, SWD-2603, TERFQ

Ordnance. 600 rounds .50 cal

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

SWD-2609 2.0 180 R,SC,M NS A 2 H-1

Goal. Introduce GAU-17/A machine gun employment (LLL).

Requirements

Discuss
Safety considerations associated with ordnance evolutions during night time operations
Penetration checklist procedures
Aircraft Survival Equipment (ASE)
Sensor integration
Ordnance effects on NVDs during LLL operations

Introduce
Weapons employment during LLL operations
Integration of FLIR to aid in acquiring targets

Review
Weapons Checklist procedures
Crew coordination
Attack profiles
Preflight, post-flight, and usage of Laser Aiming Devices
Laser terminology and operating characteristics

Performance Standards
Demonstrate detailed knowledge of nomenclature and cycle of operation.
Demonstrate proficiency in all aspects of GAU-17/A weapons employment IAW crew served weapons employment table.
Demonstrate proper jam clearing and troubleshooting techniques while on NVDs IAW checklist procedures.

Prerequisite. SWD-2605, NSQ HLL

Ordnance. 1,500 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

SWD-2610 2.0 180 R,SC,M NS A 2 H-1

Goal. Introduce M-240D machine gun employment (LLL).

Requirements

Discuss
Safety considerations associated with ordnance evolutions during night time operations
Penetration checklist procedures
Aircraft Survival Equipment (ASE)
Sensor integration
Ordnance effects using NVDs during LLL operations

Introduce
Weapons employment during LLL operations

Integration of FLIR to aid in acquiring targets

Review
Weapons Checklist procedures
Crew coordination
Attack profiles
Preflight, post-flight, and usage of Laser Aiming Devices
Laser terminology and operating characteristics

Performance Standards
Demonstrate detailed knowledge of nomenclature and cycle of operation.
Demonstrate proficiency in all aspects of M-240D weapons employment IAW crew served weapons employment table.
Demonstrate proper jam clearing and troubleshooting techniques while on NVDs IAW checklist procedures.

Prerequisites. SWD-2606, NSQ HLL

Ordnance. 400 rounds 7.62mm

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| SWD-2611 | 2.0 | 180 | R,SC,M | NS | A | 2 H-1 |

Goal. Introduce GAU-21 .50 caliber machine gun employment (LLL).

Requirements

Discuss
Safety considerations associated with ordnance evolutions during night time operations
Penetration checklist procedures
Aircraft Survival Equipment (ASE)
Sensor integration
Ordnance effects on NVDs during LLL operations

Introduce
Weapons employment during LLL operations
Integration of FLIR to aid in acquiring targets

Review
Weapons Checklist procedures
Crew coordination
Attack profiles
Preflight, post-flight, and usage of Laser Aiming Devices
Laser terminology and operating characteristics

Performance Standards
Demonstrate detailed knowledge of nomenclature and cycle of operation.
Demonstrate proficiency in all aspects of GAU-21 weapons employment IAW crew served weapons employment table.
Demonstrate proper jam clearing and troubleshooting techniques IAW checklist procedures while using NVDs.

Prerequisites. SWD-2607, NSQ HLL

Ordnance. 600 rounds .50 cal

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

3.14.8 Advanced Night Systems Qualification (ANSQ)

3.14.8.1 Purpose. To develop proficiency during LLL operations.

3.14.8.2 General. At the completion of this stage, the CCUI/AOUI shall demonstrate core skills proficiency under LLL conditions. Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirement. ANSQ-2702, 2703 and 2704

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ANSQ-2702 | 1.5 | 180 | R | | NS | A | 2 H-1 |

Goal. Develop proficiency in tactical formation flight and TERF navigation (LLL).

Requirements

Discuss
- Safety precautions when flying during Low Light Level conditions
- Terrain suitability
- Section mechanics during TERF
- LLL formation flight considerations

Introduce
- TERF maneuvers in the LLL environment

Review
- Safety precautions when operating in a TERF environment
- NVD lookout procedures during TERF
- Use of the ANV-20/20 NVD Infinity Focus Device

Performance Standards
- Demonstrate proficiency in all TERF maneuvers IAW the UH-1Y NATOPS, MDG and NTTP.
- Demonstrate the ability to accurately prepare a map and assist the pilots in navigation in the TERF environment.

Prerequisite. NSQ

Range Requirement. Authorized TERF route, high bird if required

Crew. NSI/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ANSQ-2703 | 1.5 | * | | | NS | A | 2 UH-1Y |

Goal. Review section tactical ingress profiles, approaches, landings, and departures (LLL).

Requirements

Discuss
Section tactics under LLL conditions
Reduced Visibility Landings (RVLs) and CRM

Introduce
Section Tactical landings under LLL conditions
Review
Section mechanics
HIE operations
Safety and NATOPS limitations
Reduced Visibility Landings (RVLs) and CRM
Closure rates and drift

Performance Standards
Demonstrate the ability to assist pilots in a minimum of 4 landings as lead and 4 landings as the wingman.
A minimum of 2 approaches shall end in an HIE profile.

Prerequisite. NSQ

External Syllabus Support. Unlit field or remote landing site free from artificial illumination

Crew. NSI/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ANSQ-2704 | 1.5 | 180 | R,SC,M | NS | A | 2 | H-1 |

Goal. Demonstrate proficiency of crewmember responsibilities during a tactical ASPT mission while employing crew served weapons (LLL).

Requirements

Discuss
Crewmember responsibilities in a tactical environment
Threat profiles and counter-tactics
METT-TSL considerations
Aircraft Survivability Equipment (ASE)
Sensor integration
Sectors of fire

Introduce
Threat counter-tactics and profiles

Review
Considerations of delivering ordnance when inserting/extracting troops
Tactical approaches/departures
Section mechanics
Safety and aircraft limitations
Terrain/obstacle clearance
Closure rates and drift

Performance Standards
Demonstrate proficiency in all aspects of goggle usage and knowledge.
Demonstrate proficiency in all aspects of tactical landings while conducting a minimum of 2 landings.
Deliver ordnance during a minimum of one landing profile. Safe and effective employment of applicable weapon IAW crew served system weapons employment table.

Prerequisite. ACAD-2060, ANSQ-2702, 2703 and one of the following: SWD-2609, 2610 or 2611 based on configuration.

Ordnance. 1,500 rounds 7.62mm GAU-17/A, or 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range

Crew. NSI/CCUI or AOUI

3.15 MISSION SKILL ACADEMIC PHASE (3000)

3.15.1 Purpose. To develop a Mission Skill proficient Crew Chief or Aerial Observer. These academics facilitate understanding of operations in the UH-1Y and MAGTF level functions to ensure individuals possess the requisite knowledge to perform crewmember functions in those Mission Skills.

3.15.2 General. These academics are intended to be an integrated series of academic lectures contained within each phase of training. Accordingly, academic events are like any other event in that they serve as prerequisites to selected flight events or stages.
3.15.2.1 Completion of the academic events in conjunction with the Mission Skill flight phase meets the requirements for the CCUI/AOUI to be proficient in those specific mission skills.

The lectures are contained in the MAWTS-1 Enlisted Aircrew Academic Support Package. The codes associated with these academic requirements do not require ATFs. At the completion of each ACAD event, the appropriate training code shall be logged in M-SHARP by the EATM. The codes below are for lectures only; readings and guided discussions are NOT included and are contained only in the course catalog. Reference the current UH-1Y Course Catalog for the most recent academic requirements.

3.15.2.2 Core Skill academic events are listed below.

| MISSION SKILL ACADEMIC PHASE | |
|---|---|
| **TRAINING CODES** | **COURSEWARE** |
| **ESC** | |
| ACAD-3050 | EA BASIC PRINCIPLES OF ESCORT OPERATIONS |
| ACAD-3054 | EA CASEVAC CONSIDERATIONS |
| **ASPT** | |
| ACAD-3051 | EA UH-1 HELICOPTER INSERTION AND EXTRACTION (HIE) |
| **CAS** | |
| ACAD-3053 | EA INTRO TO CAS AND FAC(A) |

3.16 MISSION SKILL PHASE (3000)

3.16.1 Purpose. To produce a mission skill proficient CC/AO. Upon completion of the Mission Skills Phase aircrew shall be proficient in all Mission Essential Tasks.

3.16.2 General. Upon completion of this phase, the aircrew will be ESC, ASPT, AD, CAS, and FAC(A) complete and may conduct additional missions as specified by the squadron commander.

3.16.2.1 Stages. The following stages are included in the Mission Skill

Phase of training.

| | MISSION SKILL PHASE |
|---|---|
| PAR NO. | STAGE NAME |
| 3.16.3 | Escort (ESC) |
| 3.16.4 | Assault Support (ASPT) |
| 3.16.5 | Air Delivery (AD) |
| 3.16.6 | Close Air Support (CAS) |
| 3.16.7 | Forward Air Controller (Airborne)[FAC(A)] |

3.16.3 Escort (ESC)

3.16.3.1 Purpose. To develop proficiency in prescribed airborne and surface escort formations and maneuvers.

3.16.3.2 General. The CCUI/AOUI will develop a detailed understanding and functional knowledge of escort formations, maneuvers and techniques associated with assault support and surface operations.

Ordnance is optional for this stage of training, however it is strongly recommended. If ordnance is utilized, the CCUI/AOUI shall have completed the Core Skills SWD flight corresponding to the appropriate ordnance load and event condition. Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirements. ESC-3100 and 3101

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

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

ESC-3100 1.5 * D A 2 H-1

Goal. Introduce day assault support escort procedures.

Requirements

Discuss
- Purpose of escort
- Responsibilities of escort and assault aircraft
- Sectors of fire
- Winter/devil criteria
- Types of escort
- Six missions of assault support escort

Introduce
- Escort formations
- Techniques and responsibilities per Tactical doctrine for escort

Review
- Lookout doctrine
- Sectors of fire

Performance Standards

Demonstrate the ability to conduct escort operations.
If ordnance is utilized, safe and effective employment of applicable weapon IAW crew served system weapons employment table.

Prerequisite. ACAD-3050, REC-2301, TERFQ (SWD-2601, 2602 or 2603~ORD based on configuration)

Ordnance. Optional. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range (if required)

External Syllabus Support. One or more assault support aircraft

Crew. AGI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| ESC-3101 | 1.5 | 365 | R,M | NS | A | 2 H-1 |

Goal. Introduce night assault support escort.

Requirements

Discuss
- Night LZ clearance/coverage techniques and procedures
- Responsibilities of escort and assault aircraft
- Types of escort in relation to threat levels
- Route reconnaissance

Introduce
- Night helicopter escort procedures
- Threat counter tactics in defense of the assault aircraft

Review
- Lookout doctrine
- Sectors of fire
- Responsibilities of escort and assault aircraft

Performance Standards
- Demonstrate the ability to conduct escort operations in the night environment.
- If ordnance is utilized, safe and effective employment of applicable weapon IAW crew served system weapons employment table.

Prerequisites. ESC-3100, NSQ HLL (SWD-2605, 2606 or 2607~NS ORD based on configuration)
ESC-3100, ANSQ LLL (SWD-2609, 2610 or 2611~LLL ORD based on configuration)

Ordnance. Optional. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range (if required)

External Syllabus Support. One or more assault support aircraft

Crew. NSI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| ESC-3103 | 1.5 | * | | (NS) | A | 2 H-1 |

Goal. Introduce surface force escort operations.

Requirements

Discuss
- Purpose of surface escort
- Responsibilities of escort aircraft
- Sectors of fire/fragmentation patterns
- Route reconnaissance procedures
- Types of escort
- Tactics, techniques, and procedures of surface forces

Introduce
- Route coverage patterns
- Actions in the objective area
- Ordnance delivery geometry, techniques, and procedures in support of surface forces
- Techniques and responsibilities per Tactical doctrine for escort

Review
- Lookout doctrine
- Sectors of fire

Performance Standards
- Exhibit a thorough understanding of surface force escort responsibilities in support of the GCE scheme of maneuver.
- If ordnance is utilized, safe and effective employment of applicable weapon system IAW crew served system weapons employment table.

Prerequisite. ACAD-3050 and 3054, TERFQ (SWD-2601, 2602 or 2603~DAY ORD based on configuration)
ACAD-3050 and 3054, NSQ HLL (SWD-2605, 2606 or 2607~NS ORD based on configuration)
ACAD-3050 and 3054, ANSQ LLL (SWD-2609, 2610 or 2611~LLL ORD based on configuration)

Ordnance. Optional. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range (if required)

External Syllabus Support. One ground/amphibious unit, minimum 3 vehicles

Crew. AGI (NSI)/CCUI

3.16.4 Assault Support Operations (ASPT)

3.16.4.1 Purpose. To develop procedures and skills to tactically employ the UH-1Y, while conducting a variety of combat assault support missions.

3.16.4.2 General. Upon the completion ASPT event the CCUI/AOUI will be MISSION SKILLS proficient for ASPT. Prior to conducting HIE, a face-to-face brief with the HRST Master is required. Actual ordnance for crew served weapons should be incorporated to the maximum extent practical.

AOUI requirements. Not required

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ASPT-3200 | 1.0 | 365 | R | D | A | 1 | UH-1Y |

Goal. Develop proficiency in tactical fastrope operations.

Requirements

Discuss
- Configuration
- Passenger briefing considerations
- Fastrope profiles
- Cabin management
- Gunner threat reaction
- HRST master briefing requirements
- HIE manual/applicable local orders

Introduce
- Fastrope gantry installation
- Fastrope profiles
- Communication procedures
- Rope release procedures
- HRST briefing

Review
- Passenger briefing

Performance Standards
Display proper crew coordination and communications IAW UH-1 NTTP.
Display the ability to safely perform fastrope operations.

Prerequisites. ACAD-3051, TERFQ

Range Requirements. Simulated/Actual rooftop or landing point. (authorized fastrope site)

External Syllabus Support. HRST Master and at least two ropers

Crew. TERFI/CCUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ASPT-3201 | 1.0 | 365 | R,M | NS | A | 1 | UH-1Y |

Goal. Develop proficiency in tactical fastrope operations at night.

Requirements

Discuss
- Aircrew/HRST master coordination using NVDs
- Aircraft and roper emergencies using NVDs
- Passenger briefing considerations
- Fastrope profiles
- Cabin management
- Gunner threat reaction
- HRST master breifing requirements
- HIE manual/applicable local orders

Review
- Fastrope gantry installation
- Fastrope profiles
- Communication procedures
- Rope release procedures
- HRST briefing

Performance Standards

Display proper crew coordination and communications IAW UH-1 NTTP.
Display the ability to safely perform fastrope operations using NVDs.

Prerequisites. ASPT-3200, NSQ~NS, ANSQ~LLL

Range Requirements. Simulated/Actual rooftop or landing point. (authorized fastrope site)

External Syllabus Support. HRST Master and at least two ropers

Crew. NSI/CCUI

3.16.5 Air Delivery (AD)

3.16.5.1 Purpose. To develop procedures and skills to tactically employ the UH-1Y while conducting aerial delivery.

3.16.5.2 General. Upon completion of the AD stage, the crew chief will be Mission Skills proficient for AD.

AOUI requirements. Not required

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

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

| | | | | | | |
|---|---|---|---|---|---|---|
| AD-3206 | 0.0 | * | SC | (NS) | A STATIC | 1 UH-1Y |

Goal. Develop proficiency at the loading and unloading of cargo and passengers on a static UH-1Y

Requirements

Discuss

Cabin configuration management
Aircraft assault support configuration considerations
Assault support mission specific kits
Combat Restraint System
Combat resupply planning configuration
Internal transport of cargo
On/Off drills and rehearsals
PZ operations
Cargo lifting devices
Helicopter Support team (HST)
External cargo safety considerations
TFOA avoidance
Escort requirements
Signal plan
Manifest procedures
Aircraft MACO markings
Accountability procedures
Required communication
Crew/passenger hand and arm signals

Introduce

Load and unload a static UH-1Y with airworthy combat cargo configurations
Passenger securing procedures and checks

Passenger briefing requirements
ON/off drills

Review
Aircraft configuration
Actions on contact

Performance standards
CCUI shall brief UH-1Y cargo and passenger loading and unloading procedures.
CCUI shall load and unload cargo and passengers in an efficient and airworthy manner.

Prerequisites. N/A

Ordnance. Configured with weapons (no ordnance)

External Syllabus Support. Troops embarked (6 preferred) and actual cargo

Crew. TERFI/CCUI

| | | | | | | |
|---|---|---|---|---|---|---|
| AD-3207 | 1.0 | 730 | R,SC,M | (NS) | A | 1 UH-1Y |

Goal. Conduct tactical external cargo procedures.

Requirements

Discuss
Aircrew coordination
Hand and arm signals
ICS terminology
Hook limitations/malfunctions
Load release
Emergency procedures
Chicago grip, quick splice, and cable cutters

Review
Operational check of cargo hook
Cargo hook pendant and manual release
Emergency procedures for external operations
Review TERF profiles

Performance standards
Demonstrate proper ICS terminology, hook operation and installation.
Perform at least two hook-up, flight and release operations for cargo hook.

Prerequisite. TERF-2100, ASPT-2400 (NSQ~NS, ANSQ~LLL)

External Syllabus Support. Appropriate external load

Crew. TERFI (NSI)/CCUI

3.16.6 Close Air Support (CAS)

3.16.6.1 Purpose. To develop procedures and skills to tactically employ the UH-1Y while conducting CAS missions.

3.16.6.2 General. Upon completion of this stage the aircrew will have

demonstrated the ability to assist in the execution of CAS missions.

Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirement. CAS-3303

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

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

| | | | | | | |
|---|---|---|---|---|---|---|
| CAS-3303 | 1.5 | 180 | R,M | (NS) | A | 2 H-1 |

Goal. Develop proficiency in tactical crewmember responsibilities while providing CAS to ground forces.

Requirements

Discuss
- Rules of engagement
- Gridded reference graphic (GRG)
- CAS check-in procedures
- Friendly marking techniques and procedures
- Threat systems and counter-tactics
- ASE utilization
- Airspace Coordination Measures
- Types of Terminal Control
- Crew member responsibilities during FAC(A)
- FAC(A) Terminology

Introduce
- Ordnance considerations and effects in proximity to the forward line of troops
- Attack briefs
- Objective area mechanics
- 9-lines and 5-lines
- Sensor integration
- Target correlation

Performance Standards
- Display ability to perform a minimum of 4 RW CAS missions utilizing 5-line or 9-line attack briefs.
- Display proficiency in the use of applicable weapon system IAW crew served system weapons employment table.

Prerequisites. ACAD-3053, ANSQ LLL and one of the following: SWD-2609, 2610 or 2611 based on configuration

Ordnance. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range

Crew. AGI(NSI)/CCUI or AOUI

### 3.16.7 Forward Air Controller (Airborne) [FAC(A)]

3.16.7.1 Purpose. To familiarize the aircrew with responsibilities and communication required to assist pilots while conducting FAC(A).

3.16.7.2 General. At the completion of this stage, the CCUI/AOUI will have

an increased knowledge of CAS and FAC(A) procedures used to control RW/FW aircraft and supporting arms under varied environmental and threat conditions.

Ordnance is optional for this stage of training. However, it is strongly recommended. If ordnance is utilized the aircrew shall have completed the SWD flight corresponding to the ordnance load. Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirements. FACA-3403

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

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

FACA-3403 1.5 365 R,M (NS) A 1 UH-1Y

Goal. Develop proficiency in tactical crewmember responsibilities while conducting FAC(A).

Requirements

Discuss
- CAS aircraft capabilities
- Weapons to target matching
- Types of Terminal Control
- Friendly marking techniques and procedures
- Airspace Coordination measures
- SEAD procedures
- Task sharing in the FAC(A) environment
- FAC(A) terminology

Review
- Objective area mechanics
- Attack briefs
- 9-lines and 5-lines
- Sensor integration
- FAC(A) terminology

Performance Standards
- Display the ability to assist the pilots in task sharing during FAC(A) controls.
- CCUI/AOUI must be present in the controlling aircraft that is providing FAC(A) controls.
- If flown with ordnance, display proficiency in the use of applicable weapon system IAW crew served system weapons employment table.

Prerequisites. ACAD-3053, CAS-3303 (SWD-2601, 2602, or 2603~DAY ORD based on configuration)
ACAD-3053, CAS-3303 (SWD-2605, 2606, or 2607~NS ORD based on configuration)
ACAD-3053, CAS-3303 (SWD-2609, 2610, or 2611~LLL ORD based on configuration)

Ordnance. Optional. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range

External Syllabus Support. One CAS aircraft

Crew. AGI(NSI)/CCUI or AOUI

3.17 CORE PLUS/MISSION PLUS ACADEMIC PHASE (4000)

3.17.1 Purpose. To develop a Core Plus Skill complete Crew Chief or Aerial Observer. These academics facilitate understanding of high threat operations in the UH-1Y and MAGTF/Joint level functions to ensure individuals possess the requisite knowledge to execute unique mission tasking, events having a low probability of execution in combat, are theater specific, and/or are high-risk events.

3.17.2 General. These academics are intended to be an integrated series of academic lectures contained within each phase of training. Accordingly, academic events are like any other event in that they serve as prerequisites to selected flight events or stages.

Completion of these academics and accompanying Core Plus/Mission Plus flights meet the requirements for the Crew Chief or Aerial Observer to be proficient in those specific Core Plus/Mission Plus missions.

The lectures are contained in the MAWTS-1 Enlisted Aircrew Academic Support Package. The codes associated with these academic requirements do not require ATFs. At the completion of each ACAD event, the appropriate training code shall be logged in M-SHARP by the EATM. The codes below are for lectures only; readings and guided discussions are NOT included and are contained only in the course catalog. Reference the current UH-1Y Course Catalog for the most recent academic requirements.

3.17.2.1 Core Skill academic events are listed below.

| CORE PLUS/MISSION PLUS ACADEMIC PHASE | |
|---|---|
| TRAINING CODES | COURSEWARE |
| DACM | |
| ACAD-4050 | EA INTRO TO DACM |
| ACAD-4051 | EA RW DACM |
| ACAD-4052 | EA FW DACM |

3.18 CORE PLUS/MISSION PLUS SKILL PHASE (4000)

3.18.1 Purpose. To certify the CCUI/AOUI 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.

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

Completion of DACM-4302 meets the requirements for the CCUI/AOUI to be RWDACM qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as RWDACM qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of DACM-4305 meets the requirements for the CCUI/AOUI to be FWDACM qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as FWDACM qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of CBRN-4400 meets the requirements for the CCUI/AOUI to be CBRN qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as CBRN qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of CQ-4600 meets the requirement for the CCUI/AOUI to be Day CQ qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as Day CQ qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of CQ-4601 meets the requirement for the CCUI/AOUI to be NVD CQ qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as NVD CQ qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of CQ-4602 meets the requirement for the CCUI/AOUI to be Unaided CQ qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as Unaided CQ qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

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

| | CORE PLUS SKILL PHASE |
|---|---|
| PAR NO. | STAGE NAME |
| 3.18.3 | Assault Support (ASPT) |
| 3.18.4 | Close Air Support (CAS) |
| 3.18.5 | Defensive Air Combat Maneuvering (DACM) |
| 3.18.6 | Chemical, Biological, Radiological and Nuclear Warfare (CBRN) |
| 3.18.7 | Carrier Qualified (CQ) |

3.18.3 Assault Support (ASPT)

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

3.18.3.2 General. Upon completion of each event the aircrew will be considered capable of performing that particular mission.

Prior to conducting HIE a face-to-face brief with the HRST/Helocast/Jump Master is required. Initial Basic and Transition flight events shall be flown under day conditions.

AOUI requirement. ASPT-4104

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

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

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

Goal. Introduce techniques for paradrop operations.

Requirements

Discuss
- Aircraft rigging for static line operations
- Aircraft rigging for free fall operations
- Insertion techniques
- Aircrew coordination

Hung jumper emergency procedures
Altitude, airspeed, and weather restrictions

Introduce
Delivery profiles
Static line retrieval
Crew/Jump Master coordination
Aircraft rigging procedures

Review
Passenger briefing

Performance Standards
Display proper crew coordination and ability to safely perform paradrop operations.

Prerequisites. ACAD-3051, ASPT-2400 (NSQ~NS, ANSQ~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. TERFI (NSI)/CCUI

ASPT-4101 1.0 * (NS) A 1 UH-1Y

Goal. Introduce techniques for water insertion.

Requirements

Discuss
Aircraft rigging for helocast operations
Insertion techniques
Aircrew coordination
Altitude, airspeed, and sea state restrictions
Emergency procedures

Introduce
Delivery profiles
Crew/Helocast Master coordination
Aircraft rigging procedures

Review
Passenger briefing

Performance Standards
Display proper crew coordination and the ability to safely perform helocast operations.

Prerequisites. ACAD-3051, TERF-2100 (NSQ~NS, ANSQ~LLL)

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. TERFI (NSI)/CCUI

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

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

Requirements

Discuss
- Aircraft rigging SPIE operations
- Aircraft rigging for Jacob's ladder operations
- Insertion/extraction techniques
- Aircrew coordination
- Altitude, airspeed, and weather restrictions
- "Cut Rope" and emergency procedures

Introduce
- Insert/extract profiles
- Crew/HRST Master coordination
- Aircraft rigging procedures

Review
- Passenger briefing

Performance Standards
Display proper crew coordination and the ability to safely perform SPIE or Jacob's Ladder operations.

Prerequisites. ACAD-3051, TERFQ (NSQ~NS, ANSQ~LLL)

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

External Syllabus Support. HRST Master and two ropers

Crew. TERFI (NSI)/CCUI

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

Goal. Introduce Mountain Area Training.

Requirements

Discuss
- Tactical approaches, landings, and departures
- High altitude operations
- HIE operations
- Loss of tail rotor effectiveness
- Brown/White out considerations
- Terrain/obstacle clearance
- Turbulence
- Orographic lifting and downdrafts

Introduce
- Tactical approaches, landings, and departures
- High altitude operations
- HIE terminology and operations

Performance Standards
Demonstrate the ability to assist pilots in operating in mountainous areas while performing a minimum of 5 mountain area landings and 2 HIE profiles.
Demonstrate proper crew coordination, ICS terminology and terrain

clearance while operating in a mountainous environment.

Prerequisites. TERFQ (NSQ~NS, ANSQ~LLL)

Crew. TERFI (NSI)/CCUI or AOUI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ASPT-4105 | 1.0 | 365 | R.M | (NS) | A | 1 | UH-1Y |

Goal. Introduce techniques for insertion using rappel.
Requirements

Discuss
- Aircraft rigging
- Insertion techniques
- Aircrew/HRST master coordination
- Aircraft and roper emergencies

Introduce
- Aircraft preparation for rappel
- Rappel profiles
- Communication procedures
- "Cut Rope" procedures
- HRST briefing

Review
- Passenger briefing

Performance Standards
Display proper crew coordination and communications IAW UH-1 NTTP.
Display the ability to safely perform rappel operations.

Prerequisite. ACAD-3051, TERFQ (NSQ~NS, ANSQ~LLL)

External Syllabus Support. HRST Master and at least two ropers

Crew. TERFI (NSI)/CCUI

3.18.4 Close Air Support (CAS)

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

3.18.4.2 General. At the completion of this stage, the CCUI/AOUI will have demonstrated the ability to deliver accurate fires in the execution of an Urban CAS mission under varied environmental and higher threat conditions.

Ordnance is optional for this stage of training, however it is strongly recommended. If ordnance is utilized, the CCUI/AOUI shall have completed the Core Skills SWD flight corresponding to the appropriate ordnance load and event condition. Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirement. CAS-4200

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CAS-4200 | 1.5 | 365 | R,M | (NS) | A | 2 | H-1 |

Goal. Refine CAS procedures in an urban environment.

Requirements

Discuss
- Urban terrain considerations
- Altitude considerations for weapons and visual reference
- Weapon selection
- ROE/PID
- Collateral Damage Estimate(CDE)
- Gridded Reference Graphic(GRG)
- Urban threat considerations

Review
- GRG usage
- Sensor integration
- Target correlation

Performance Standards
- Display ability to perform aircrew responsibilities in a tactical urban environment.
- If flown with ordnance, display proficiency in the use of applicable weapon system IAW crew served system weapons employment table.
- Display ability to utilize gridded reference graphic (GRG) to enhance aircrew situational awareness.

Prerequisites. ACAD-3053, CAS-3303 (SWD-2601, 2602, or 2603~DAY ORD based on configuration)ACAD-3053, CAS-3303 (SWD-2605, 2606, or 2607~NS ORD based on configuration)
ACAD-3053, CAS-3303 (SWD-2609, 2610, or 2611~LLL ORD based on configuration)

Ordnance. Optional. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range

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

Crew. AGI(NSI)/CCUI/AOUI

3.18.5 Defensive Air Combat Maneuvering (DACM)

3.18.5.1 Purpose. To demonstrate and introduce DACM and to qualify the CCUI/AOUI as RWDACM and FWDACM complete.

3.18.5.2 General. At the completion of this stage, the CCUI/AOUI will be proficient in the conduct of the DACM and have a thorough knowledge of weapons employment, aircraft control, and threat tactics of RW and FW adversaries.

Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

Until a CC/AO door gunner simulator linked to the UH-1Y simulator is available for training, DACM-4300 is not required for RWDACM/FWDACM stage completion.

AOUI requirements: DACM-4300 through 4305

Crew Requirement. As listed at the end of each event. All participants must be TERF Qualified.

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

| | | | | | | |
|---|---|---|---|---|---|---|
| DACM-4300 | 1.5 | 485 | R,M | D | A | 1 UH-1Y |

Goal. Introduce air-to-air gunnery (AAG).

Requirements

Discuss
- Weapons capabilities/limitations
- Range and lead/lag estimation
- Aerial ballistics
- Aircrew coordination
- Time of flight (TOF)

Introduce
- AAG using shadow gunnery or Moving Land Target (MLT)
- Aircrew coordination during moving target engagements
- Range and lead/lag estimation

Review
- Fundamentals of aerial gunnery
- Appropriate weapon system characteristics

Performance Standards

Demonstrate detailed knowledge of nomenclature, cycle of operation and BCWD.

Demonstrate the ability to safely and effectively employ crew served weapons against moving targets IAW crew served system weapons employment table.

Prerequisites. SWD-2601, 2602 or 2603 based on configuration.

Ordnance. 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21.

Range Requirement. Aerial gunnery range or MLT range

Crew. AGI/CCUI or AOUI

| | | | | | | |
|---|---|---|---|---|---|---|
| DACM-4301 | 1.0 | * | R,SC | D | A | 1 UH-1Y |

Goal Introduce 1 v 1 RWDACM.

Requirements

Discuss
- Aircraft limitations
- Rotary wing threat aircraft capabilities/limitations
- Standard DACM terminology
- Aircrew coordination
- Ps, Vc, E-M diagrams
- Line numbers/DACM training rules

Introduce
- Basic defensive maneuvers against RW threats

Lookout procedures and identification of aircraft
Range estimation/optimal engagement distances
Standard DACM terminology
Line numbers

Review
Fundamentals of aerial gunnery
Time of flight (TOF)/aerial ballistics

Performance Standards
Conduct one complete line number sequence (from both friendly and adversary roles).
Execute proper reactions to RW threat attacks.

Prerequisites. ACAD-4050 and 4051, TERFQ

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

Crew. DACMI/CCUI or AOUI

DACM-4302 1.0 485 R,M D A 2 H-1

Goal. Introduce 2 v 1 RWDACM.

Requirements

Discuss
Standard DACM terminology
Mutual support
Aircrew coordination
Line numbers/DACM training rules
Free and engaged roles and responsibilities

Introduce
Basic defensive maneuvers
Section mechanics
Free and engaged roles

Review
Fundamentals of aerial gunnery
Time of flight (TOF)/aerial ballistics
Basic defensive maneuvers
Lookout procedures and identification of aircraft
Range estimation/optimal engagement distances
Standard DACM terminology

Performance Standards
Conduct one complete line number sequence (from both friendly and adversary roles).
Execute proper reactions to RW threat attacks.

Prerequisite. DACM-4301

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

Crew. DACMI/CCUI or AOUI

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

Goal. Introduce 1 v 1 FWDACM.

Requirement

Discuss
- Aircraft limitations
- Lookout procedures and identification of aircraft
- FW threat aircraft capabilities/limitations
- Line numbers/DACM rules
- Standard terminology
- Aircrew coordination
- Ps, $V_c$, E-M diagrams

Introduce
- Basic defensive maneuvers against FW threats
- Lookout procedures and identification of aircraft
- Range estimation/optimal engagement distances
- Standard terminology
- Line numbers

Review
- Fundamentals of aerial gunnery
- Time of flight (TOF)/aerial ballistics

Performance Standards
- Conduct a minimum of one (1) line number sequence.
- Execute proper reactions to FW threat attacks.

Prerequisites. ACAD-4050 and 4052, TERFQ

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

Crew. DACMI/CCUI or AOUI

DACM-4305 1.0 485 R,M D A 2 H-1

Goal. Introduce 2 v 2 FWDACM.

Requirements

Discuss
- Standard DACM terminology
- Mutual support
- Aircrew coordination
- Line numbers/DACM training rules
- Free and engaged roles and responsibilities

Introduce
- Basic defensive maneuvers
- Section mechanics
- Free and engaged roles

Review
- Fundamentals of aerial gunnery
- Time of flight (TOF)/aerial ballistics
- Basic defensive maneuvers
- Lookout procedures and identification of aircraft
- Range estimation/optimal engagement distances
- Standard DACM terminology

Performance Standards
Conduct a minimum of one (1) line number sequence.
Execute proper reactions to FW threat attacks.

Prerequisite. DACM-4304

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

Crew. DACMI/CCUI or AOUI

3.18.6 Chemical, Biological, Radiological and Nuclear warfare (CBRN)

3.18.6.1 Purpose. To introduce the CCUI/AOUI to operations while wearing the aviator's CBR protective mask.

3.18.6.2 General. This event is designed to expand the capabilities of the aircrew in CBRN operations.

AOUI requirement. SCBR-4400

Crew Requirement. 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 crewmember will complete protective mask familiarization lecture and aircraft egress with mask. Discuss capabilities and disadvantages of CBR protective mask, to include protective mask emergency procedures. Review all MOPP conditions.

| | | | | | | |
|---|---|---|---|---|---|---|
| CBRN-4400 | 1.0 | * | R,M | D | A | 1 UH-1Y |

Goal. CBR protective mask introduction.

Requirements

Discuss
Protective mask introduction
Physiological effects
Operating in an CBRN environment
Emergency egress
Battery failure
NVD considerations

Introduce
Conduct FAM maneuvers while wearing the protective mask.

Performance Standards
Demonstrate the ability to perform aircrew responsibilities in the CBRN environment while wearing the protective mask.

Prerequisite. ASPT-2400

Crew. TERFI/CCUI or AOUI

3.18.7 Carrier Qualification (CQ)

3.18.7.1 Purpose. To introduce day and night flight operations from a

carrier deck or air capable ship.

3.18.7.2 General. IAW applicable directives, CCUI/AOUI 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. CCUI/AOUI 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.

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

AOUI requirement. CQ-4600 through 4602

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

Ground/Academic Training. IAW the MAWTS-1 UH-1 Course Catalog. Review required equipment for shipboard/over-water operations.

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

Goal. Conduct day shipboard landing qualification.

Requirements

Discuss
- Shipboard safety equipment location and marking
- Requirements for carrying PAX over water

Introduce
- Shipboard patterns
- Closure rate
- Proper ICS/Radio terminology
- Flight deck procedures

Review
- Air capable ships
- Shipboard specific crew coordination
- LSE signals
- Emergency and ditching procedures
- Wind limitation charts
- Shipboard terminology
- Alpha, Delta and Charlie patterns
- Hazards of Electromagnetic Radiation to Ordnance (HERO) conditions

Performance Standards
- Demonstrate the ability to conduct daytime shipboard operations per the UH-1Y NATOPS and shipboard NATOPS manuals.
- Demonstrate the ability to conduct a minimum of 5 CQ landings.
- Demonstrate the ability to conduct a rotor brake start.
- Demonstrate the ability to conduct shipboard refueling.

Prerequisite. FCLP-2501

External Syllabus Support. Landing platform afloat

Crew. TERFI/CCUI or AOUI

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

Goal. Conduct NVD shipboard landing qualification.

Requirements

Discuss
NVG shipboard lighting

Introduce
Closure rate and decent rates

Review
NVG safety considerations
Aircraft lighting configurations
NVG flight over open water
Physiological effects with no horizon

Performance Standards
Demonstrate the ability to conduct NVD shipboard operations per the UH-1Y NATOPS and shipboard NATOPS manuals.
Demonstrate the ability to conduct a minimum of 5 CQ landings.
Demonstrate the ability to conduct shipboard refueling.

Prerequisite. FCLP-2502, CQ-4600, NSQ

External Syllabus Support. Landing platform afloat

Crew. NSI/CCUI or AOUI

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

Goal. Conduct night unaided shipboard landing qualification.

Requirements

Discuss
Night unaided shipboard lighting
Night unaided safety considerations
Aircraft lighting configurations

Review
Ditching procedures
Required personal and aircraft survival equipment
Alpha, Delta, and Charlie patterns
Air capable ships
Shipboard specific crew coordination
LSE signals
Shipboard terminology
Proper ICS/Radio terminology

Performance Standards
Demonstrate the ability to conduct night unaided shipboard operations per the UH-1Y NATOPS and shipboard NATOPS manuals.
Demonstrate the ability to conduct a minimum of 5 CQ landings.

Prerequisite. FCLP-2502, CQ-4600

External Syllabus Support. Landing platform afloat

Crew. NSI/CCUI or AOUI

## 3.19 INSTRUCTOR UNDER TRAINING PHASE (5000)

3.19.1 Purpose. To develop standardized instructor Crew Chiefs with the ability to teach flight skills and knowledge necessary to qualify/designate Crew Chiefs and Aerial Observers IAW this T&R and the UH-1Y Course Catalog.

3.19.2 General. This Phase only covers the FRSI stage in detail. For other instructor designation syllabi refer to the UH-1Y Course Catalog for execution of those POI's.

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

| | INSTRUCTOR PHASE |
|---|---|
| PAR NO. | STAGE NAME |
| 3.19.3 | Terrain Flight Instructor (TERFI) |
| 3.19.4 | Fleet Replacement Squadron Instructor (FRSI) |
| 3.19.5 | Aerial Gunner Instructor (AGI) |
| 3.19.6 | Night Systems Familiarization Instructor (NSFI) |
| 3.19.7 | Defensive Air Combat Maneuvering Instructor (DACMI) |
| 3.19.8 | Night Systems Instructor (NSI) |

### 3.19.3 Terrain Flight Instructor (TERFI)

3.19.3.1 Purpose. To certify a UH-1 crew chief as a Terrain Flight Instructor (TERFI) capable of safely and effectively conducting ground academic and day time airborne instruction of TERF, NAV, ASPT, CQ's, FORM, Externals and CBRN.

TERF-5100 1.5 * (NS) A 1 UH-1Y

Requirement. Reference the current UH-1Y Course Catalog for the TERFI POI.

TERF-5101 1.5 * R (NS) E A 2 H-1

Requirement. Reference the current UH-1Y Course Catalog for the TERFI POI.

### 3.19.4 Fleet Replacement Squadron Instructor (FRSI)

3.19.4.1 Purpose. To certify the IUT as a Fleet Replacement Squadron Instructor capable of instructing 1000 level events.

3.19.4.1 General. Upon completion of the Fleet Replacement Squadron Instructor (FRSI) stage, the FRSIUT may be designated a FRSI by the FRS squadron commanding officer. A letter designating the CC as a FRSI shall be placed in the NATOPS jacket and an entry made in the flight log book.

The FRSIUT shall be a TERFI, AGI GAU-21, AGI GAU-17/A, AGI M-240D, and NSQ (LLL) prior to beginning FRSIUT training.

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

Ground Training. FRSIUT stage lecture.

FRSI-5300 2.0 * R D E A 1 UH-1Y

Goal. FRSIUT will demonstrate techniques of instructing/evaluating normal ground procedures, passenger, and in flight procedures for the Core Skill Introduction phase of training.

Requirements

Review
Standard NATOPS procedures to include hand and arm signals
Aircrew coordination and comfort level

Performance Standards
Demonstrate instructional techniques to instruct CCUIs in the Core Skill Introduction phase.

Prerequisites. GAU-17/A AGI, M240D AGI and GAU-21 AGI

Crew. FRSI/FRSIUT

FRSI-5301 2.0 * R D E A 1 UH-1Y

Goal. Demonstrate techniques of instructing/evaluating external weight and hoist operations and procedures.

Requirements

Review
Aircrew coordination
Lost communication
ICS terminology
Lookout doctrine
Emergency procedures
Load oscillation and load release.

Performance Standards
Instruct at least two hookups, flight, and release operations.
Instruct procedures, signals, and communications for hoist procedures.
Demonstrate instructional techniques to CCUIs during external weight and hoisting procedures.

Prerequisite. FRSI-5300

External Syllabus Support. Appropriate external weight

Crew. FRSI/FRSIUT

3.19.5 Aerial Gunner Instructor (AGI)

3.19.5.1 Purpose. To certify a UH-1 crew chief as an Aerial Gunner Instructor (AGI) capable of safely and effectively conducting ground academic and day time airborne instruction in the employment of crew served weapons in

all aspects of Tactical flight.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5420 | 1.5 | * | | (NS) | | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5421 | 1.5 | * | R | NS | E | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5430 | 1.5 | * | | (NS) | | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5431 | 1.5 | * | R | NS | E | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5440 | 1.5 | * | | (NS) | | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AGI-5441 | 1.5 | * | R | NS | E | A | 2 H-1 |

Requirement. Reference the current UH-1Y Course Catalog for the AGI POI.

3.19.6 Night Systems Familiarization Instructor (NSFI)

3.19.6.1 Purpose. To certify a UH-1 Fleet Replacement Squadron (FRS) crew chief instructor as a Night Systems Familiarization Instructor (NSFI) capable of safely and effectively conducting ground and airborne instruction of night vision device (NVD) flight during Core Skill Introduction phase under high light level conditions only.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NSFI-5600 | 1.5 | * | | NS | | A | 1 UH-1Y |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NSFI-5601 | 1.5 | * | R | NS | E | A | 1 UH-1Y |

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

3.19.7 Defensive Air Combat Maneuvers Instructor (DACMI)

3.19.7.1 Purpose. To certify a UH-1 crew chief as a Rotary Wing Defensive Air Combat Maneuvers Instructor (RW DACMI) and Fixed Wing Defensive Air Combat Maneuvers Instructor (FW DACMI) capable of safely and effectively conducting ground academic and airborne instruction of the UH-1Y DACM flight syllabus.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DACM-5800 | 1.5 | * | | D | | A | 1 UH-1Y |

Requirement. Reference the current UH-1Y Course Catalog for the RW DACMI POI.

DACM-5801 1.5 * D A 2 H-1

Requirement. Reference the current UH-1Y Course Catalog for the FW DACMI POI.

DACM-5802 1.5 * R D E A 2 H-1

Requirement. Reference the current UH-1Y Course Catalog for the RW DACMI POI.

DACM-5803 1.5 * R D E A 2 H-1

Requirement. Reference the current UH-1Y Course Catalog for the FW DACMI POI.

3.19.8 Night Systems Instructor (NSI)

3.19.8.1 Purpose. To certify a UH-1 crew chief as a Night Systems Instructor (NSI) capable of safely and effectively conducting ground academic and airborne instruction of the UH-1 Night Vision Device (NVD) flight syllabus.

NSI-5900 1.5 * NS A 1 UH-1Y

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

NSI-5901 1.5 * NS A 2 H-1

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

NSI-5904 2.0 * R NS E A 2 H-1

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

3.20 REQUIREMENTS AND QUALIFICATIONS PHASE (6000)

3.20.1 Purpose. To outline the requirements for qualifications and designations.

3.20.2 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 before that qualification/designation can be utilized.

Completion of the NTPS-6101 sortie meets the requirements for the CCUI/AOUI to be NATOPS qualified. At the discretion of the squadron commanding officer a letter assigning the CCUI/AOUI as NATOPS qualified shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of the Aerial Gunner Qualification Stage QUAL-6301 meets the requirements for the CCUI/AOUI to be eligible for the GAU-17 AG qualification. At the discretion of the squadron commanding officer a letter designating the CCUI/AOUI as GAU-17 AG QUAL shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of the Aerial Gunner Qualification Stage QUAL-6302 meets the requirements for the CCUI/AOUI to be eligible for the M240D AG qualification. At the discretion of the squadron commanding officer a letter designating the CCUI/AOUI as M240D AG QUAL shall be placed in the NATOPS jacket and an entry made in the flight log book.

Completion of the Aerial Gunner Qualification Stage QUAL-6303 meets the requirements for the CCUI/AOUI to be eligible for the GAU-21 AG qualification. At the discretion of the squadron commanding officer a letter designating the CCUI/AOUI as GAU-21 AG QUAL shall be placed in the NATOPS jacket and an entry made in the flight log book.

3.20.3 NATOPS Qualification

3.20.3.1 Purpose. To certify the CCUI/AOUI as NATOPS qualified in the UH-1Y.

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

Completion of this stage meets the requirements for the annual NATOPS evaluation.

The NTPS-6101 event may be logged in conjunction with any operational or training flight.

Individuals have 60 days to complete the NATOPS evaluation process from the start of NTPS-6001 to the completion of NTPS-6101.

Documentation of the most recent NATOPS open book, closed book, and EP exams shall be logged in the individual NATOPS Flight Personnel Training/Qualification Jacket in Section III, Part C. In addition to filing the exams in Section III, Part C; NATOPS open book, closed book, and EP examination scores shall be recorded using a 4.0 scale on the OPNAVINST 3760/32G examination record form.

Documentation of the annual NATOPS Evaluation Reports shall be filed in the individual NATOPS Flight Personnel Training/Qualification Jacket in Section III, Part D. The Annual NATOPS Evaluation Reports will be retained permanently in the NATOPS Jacket.

NTPS-6001, NTPS-6002 and NTPS-6003 do not require ATFs.

AOUI requirements. NTPS-6001, NTPS-6002, NTPS-6003, NTPS-6101

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

Ground/Academic Training. IAW NATOPS.

NTPS-6002 1.5 365 R,SC,M E 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 E 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 E 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 1.0 365 R,SC,M (NS) E A 1 UH-1Y

Goal. 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 and 6003

Crew. ANI (ANI designated NSI)/CCUI or AOUI

Performance Standards. IAW OPNAVINST 3710.7 and NATOPS

3.20.4 Annual Crew Resource Management (CRM) Evaluation

3.20.4.1 Purpose. Conduct annual CRM ground training and flight evaluation.

3.20.4.2 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.

AOUI requirements. CRM-6010, CRM-6110

Crew Requirements. CRMF (CRMF Designated NSI)/CCUI or AOUI

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 1.0 365 R,SC,M (NS) E A 1 UH-1Y

Goal. 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

Prerequisite. CRM-6005

Crew. CRMF (CRMF designated NSI)/CCUI or AOUI

3.20.5 Aerial Gunner Qualification Stage

3.20.5.1 Purpose. To achieve qualification as an aerial gunner.

3.20.5.2 General. Completion of this stage qualifies the CCUI/AOUI for qualification as an aerial gunner on the respective weapons.

Appropriate documentation (ATFs with rounds-count) will be completed for each weapon prior to qualification as an aerial gunner.

A qualification letter shall be placed in the NATOPS Jacket and an entry made in the flight log book.

Initial prerequisite events for a Basic or Transition POI shall not be flown in conjunction with this stage.

Refer to paragraph 3.9.3.2.1 for crew served weapons ordnance delivery standards.

AOUI requirement. QUAL-6301 through 6303

Crew Requirement. NSI/CCUI or AOUI

Ground Training. Refer to UH-1Y Course Catalog for applicable required readings. Written examinations shall be administered prior to each individual weapon evaluation flight.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| QUAL-6301 | 1.5 | 1095 | R,M | NS | A | 2 | H-1 |

Goal. GAU-17/A aerial gunner qualification.

Requirements

Review
- BCWD principles
- Cycle of operation/nomenclature
- Weapons checklist usage
- Weapons malfunctions and troubleshooting procedures
- Laser usage and system knowledge
- Airspace Coordination Measures
- Tactical aircrew responsibilities
- Threat counter tactics
- Switchology

Performance Standards
- Demonstrate detailed knowledge in all aspects of BCWD, nomenclature, weapon checklist and usage, understanding of mission brief and troubleshooting procedures.
- Demonstrate proficiency in safe and effective employment of the GAU-17/A while using NVDs IAW the crew served weapons matrix.

Meet or exceed accuracy outlined in crew served weapons engagement standards table.

Prerequisites. SWD-2609, ESC-3101, CAS-3303, ANSQ LLL

Crew. NSI/CCUI or AOUI

Ordnance. 1,500 rounds 7.62mm

Range Requirement. Aerial gunnery range

QUAL-6302 1.5 1095 R,M NS A 2 H-1

Goal. M-240D aerial gunner qualification.

Requirements

Review
BCWD principles
Cycle of operation/nomenclature
Weapons checklist usage
Weapons malfunctions and troubleshooting procedures
Laser usage and system knowledge
Airspace Coordination Measures
Tactical aircrew responsibilities
Threat counter tactics

Performance Standards
Demonstrate detailed knowledge in all aspects of BCWD, nomenclature, weapon checklist and usage, understanding of mission brief and troubleshooting procedures.
Demonstrate proficiency in safe and effective employment of the M-240D while using NVDs IAW the crew served weapons matrix.
Meet or exceed accuracy outlined in crew served weapons engagement standards table.

Prerequisites. SWD-2610, ESC-3101, CAS-3303, ANSQ LLL

Crew. NSI/CCUI or AOUI

Ordnance. 400 rounds 7.62mm

Range Requirement. Aerial gunnery range

QUAL-6303 1.5 1095 R,M NS A 2 H-1

Goal. GAU-21 aerial gunner qualification.

Requirements

Review
BCWD principles
Cycle of operation/nomenclature
Weapons checklist usage
Weapons malfunctions and troubleshooting procedures
Laser usage and system knowledge
Airspace Coordination Measures
Tactical aircrew responsibilities
Threat counter tactics

Performance Standards

Demonstrate detailed knowledge in all aspects of BCWD, nomenclature, weapon checklist and usage, understanding of mission brief and troubleshooting procedures.

Demonstrate proficiency in safe and effective employment of the GAU-21 while using NVDs IAW the crew served weapons matrix.

Meet or exceed accuracy outlined in crew served weapons engagement standards table.

Prerequisites. SWD-2611, ESC-3101, CAS-3303, ANSQ LLL

Crew. NSI/CCUI or AOUI

Ordnance. 600 rounds .50cal

Range Requirement. Aerial gunnery range

## 3.21 SYLLABUS MATRICES

3.21.1 General. The following matrices are provided in accordance with NAVMC 3500.14.

3.21.2 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.

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.

3.21.2.2 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 tilde 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 tilde and a 'LLL' after them, e.g. 2701~LLL are only chain-updated if the chaining code is flown using night systems during LLL.

## 3.22 CREW CHIEF AND AERIAL OBSERVER T&R SYLLABUS MATRICES

| UH-1Y CREW CHIEF AND AERIAL OBSERVER T&R SYLLABUS MATRIX (2000-6000 Phase) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER BASIC | ATTAIN | | | MAINTAIN | ACAD | | SIM | | FLIGHT | | COND | SEAT | TYPE | # A/C | NETWORK | NUM-NET | REFLY | EVAL | EOM | EVENT CONV |
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | |
| CORE SKILLS (2000 Phase) | | | | | | | | | | | | | | | | | | | | | | | |
| ACAD | ACAD | EA TACR | 2050 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA TERF | 2051 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA NVD TRAINING | 2052 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA FUNDAG | 2053 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA GAU-17/A | 2055 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA M240D INTRO | 2056 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA GAU-21 | 2057 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA LAD | 2058 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA LASER BORESIGHT | 2059 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | EA INTRO TO INSRT/RAID | 2060 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| ACAD TOTAL | | | | | | | | 10 | 10.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | |
| TERF | TERF | INTRO TERF NAV | 2100 | X | | | | | | | | | 1.0 | D | | A | 1 | | | 180 | | | 2100 |
| | TERF | REVIEW NVD TERF ~NS | 2101R | X | X | X | X | | | | | | 1.0 | NS | | A | 1 | | | 180 | | | 2101 |
| TERF TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 2.0 | | | | | | | | | | |
| REC | SREC | SENSOR FAM | 2300 | X | | | | | 0.0 | | | | | (NS) | | A/S | 1 | | | * | | | 2300 |
| | REC | SENSOR FAM | 2301R | X | X | | X | | | | | | 0.5 | (NS) | | A | 1 | | | 365 | | | 2300 |
| REC TOTAL | | | | | | | | 1 | 0.0 | 0 | 0.0 | 1 | 0.5 | | | | | | | | | | |
| ASPT | ASPT | TAC LANDINGS | 2400 | X | | | | | | | | | 1.5 | D | | A | 1 | | | * | | | 2400 |
| | ASPT | ~NS NVD TAC LDGS | 2401 | X | | | | | | | | | 1.5 | NS | | A | 1 | | | * | | | 2401 |
| | ASPT | SECTION TAC LANDINGS | 2402R | X | X | X | | | | | | | 1.5 | D | | A | 2 | | | 120 | | | 2400 |
| | ASPT | ~NS NVD SECTION TAC | 2403R | X | X | X | X | | | | | | 1.5 | NS | | A | 2 | | | 120 | | | 2402 |
| ASPT TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 4 | 6.0 | | | | | | | | | | |
| FCLP | FCLP | DAY FCLP | 2501R | X | X | | | | | | | | 1.0 | D | | A | 1 | | | 365 | | | 2501 |
| | FCLP | NIGHT AND NVD FCLP | 2502R | X | X | | X | | | | | | 1.0 | N*/NS | | A | 1 | | | 365 | | | 2502 |
| FCLP TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 2.0 | | | | | | | | | | |
| SWD | SWD | GAU-17/A INTRO | 2601R | X | X | X | | | | | | | 1.5 | D | | A | 1 | | | 180 | | | 2601 |
| | SWD | M240D INTRO | 2602R | X | X | | | | | | | | 1.5 | D | | A | 1 | | | 180 | | | 2602 |
| | SWD | GAU-21 INTRO | 2603R | X | X | | | | | | | | 1.5 | D | | A | 1 | | | 180 | | | 2603 |
| | SWD | ~NS NVD GAU-17/A INT | 2605 | X | | | | | | | | | 1.5 | NS | | A | 1 | | | * | | | 2605 |
| | SWD | ~NS NVD M240D INTRO | 2606 | X | | | | | | | | | 1.5 | NS | | A | 1 | | | * | | | 2606 |
| | SWD | ~NS NVD GAU-21 INTRO | 2607 | X | | | | | | | | | 1.5 | NS | | A | 1 | | | * | | | 2607 |
| | SWD | LLL NVD GAU-17/A INT | 2609R | X | X | X | X | | | | | | 2.0 | NS | | A | 2 | | | 180 | | | 2609 |
| | SWD | LLL NVD M240D INTRO | 2610R | X | X | X | X | | | | | | 2.0 | NS | | A | 2 | | | 180 | | | 2610 |
| | SWD | LLL NVD GAU-21 INTRO | 2611R | X | X | X | X | | | | | | 2.0 | NS | | A | 2 | | | 180 | | | 2611 |
| SWD TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 9 | 15.0 | | | | | | | | | | |
| ANSQ | ANSQ | LLL NVD TERF/NAV | 2702R | X | X | | | | | | | | 1.5 | NS | | A | 2 | | | 180 | | | 2702 |
| | ANSQ | LLL NVD SECTION TAC | 2703 | X | | | | | | | | | 1.5 | NS | | A | 2 | | | * | | | 2703 |
| | ANSQ | LLL NVD TAC ASPT | 2704R | X | X | X | X | | | | | | 1.5 | NS | | A | 2 | | | 180 | | | 2704 |
| ANSQ TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 4.5 | | | | | | | | | | |

**UH-1Y CREW CHIEF AND AERIAL OBSERVER T&R SYLLABUS MATRIX (2000-6000 Phase)**

| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER BASIC | ATTAIN | | | MAINTAIN | ACAD | | SIM | | FLIGHT | | COND | SEAT | TYPE | # A/C | NETWORK | NUM-NET | REFLY | EVAL | EOM | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | |
| MISSION SKILLS (3000 Phase) | | | | | | | | | | | | | | | | | | | | | | | |
| ACAD | ACAD | ESCORT | 3050 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | HIE | 3051 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | INTRO TO CAS & FAC(A) | 3053 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | CASEVAC CONSIDERATIONS | 3054 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| ACAD TOTAL | | | | | | | | 4 | 4.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | |
| ESC | ESC | HELO ESCORT | 3100 | X | | | | | | | | | 1.5 | D | | A | 2 | | | * | | | 3101 |
| | ESC | NIGHT HELO ESCORT | 3101R | X | X | | X | | | | | | 1.5 | NS | | A | 2 | | | 365 | | | 3102 |
| | ESC | SURFACE ESCORT | 3103 | X | | | | | | | | | 1.5 | (NS) | | A | 2 | | | * | | | 3100 |
| | ANSQ | LLL NVD TERF/NAV | 2702R | X | X | | X | | | | | | | | | | | | | | | | |
| ESC TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 4.5 | | | | | | | | | | |
| ASPT | ASPT | FASTROPE | 3200R | X | X | | | | | | | | 1.0 | D | | A | 1 | | | 365 | | | 3200 |
| | ASPT | NVD FASTROPE | 3201R | X | X | | X | | | | | | 1.0 | NS | | A | 1 | | | 365 | | | 3202 |
| | ANSQ | LLL NVD TERF/NAV | 2702R | X | X | | X | | | | | | | | | | | | | | | | |
| ASPT TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 2.0 | | | | | | | | | | |
| AD | AD | TAC LOADING | 3206 | X | | X | | | 0.0 | | | | | (NS) | | A | 1 | | | * | | | 2704 |
| | AD | EXTERNALS | 3207R | X | X | X | X | | | | | | 1.0 | (NS) | | A | 1 | | | 730 | | | 4103 |
| | ANSQ | LLL NVD TERF/NAV | 2702R | X | X | | X | | | | | | | | | | | | | | | | |
| AD TOTAL | | | | | | | | 2 | 0.0 | 1 | 0.0 | 2 | 1.0 | | | | | | | | | | |
| CAS | CAS | CAS | 3303R | X | X | | X | | | | | | 1.5 | (NS) | | A | 2 | | | 180 | | | 3303 |
| | ANSQ | LLL NVD TAC ASPT | 2704R | X | X | X | X | | | | | | | | | | | | | | | | |
| CAS TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 1.5 | | | | | | | | | | |
| FAC(A) | FAC(A) | FAC(A) | 3403R | X | X | | X | | | | | | 1.5 | (NS) | | A | 1 | | | 365 | | | 3403 |
| | ANSQ | LLL NVD TAC ASPT | 2704R | X | X | X | X | | | | | | | | | | | | | | | | |
| FAC(A) SKILL TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 2.0 | | | | | | | | | | |
| CORE PLUS (4000 Phase) | | | | | | | | | | | | | | | | | | | | | | | |
| ACAD | ACAD | INTRO TO DACM | 4050 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | RW DACM | 4051 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| | ACAD | FW DACM | 4052 | X | | | | | 1.0 | | | | | | | G | | | | * | | | |
| ACAD SKILL TOTAL | | | | | | | | 3 | 3.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | |
| RIE | ASPT | PARADROP OPS INTRO | 4100 | X | | | | | | | | | 1.0 | (NS) | | A | 1 | | | * | | | 4100 |
| | ASPT | HELOCAST INTRO | 4101 | X | | | | | | | | | 1.0 | (NS) | | A | 1 | | | * | | | 4101 |
| | ASPT | SPIE INTRO | 4102R | X | X | | X | | | | | | 1.5 | (NS) | | A | 1 | | | 365 | | | 4102 |
| | ASPT | MAT INTRO/HIE | 4104R | X | X | | X | | | | | | 2.0 | (NS) | | A | 1 | | | 365 | | | 4104 |
| | ASPT | RAPPEL | 4105R | X | X | | X | | | | | | 1.0 | (NS) | | A | 1 | | | 365 | | | 3201 |
| | ANSQ | LLL NVD TERF/NAV | 2702R | X | X | | X | | | | | | | | | | | | | | | | |
| ASPT SKILL TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 4 | 5.5 | | | | | | | | | | |
| CAS | CAS | URBAN CAS | 4200R | X | X | | X | | | | | | 1.5 | (NS) | | A | 2 | | | 365 | | | 5100 |
| | ANSQ | LLL NVD TAC ASPT | 2704R | X | X | X | X | | | | | | | | | | | | | | | | |
| CAS TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 1.5 | | | | | | | | | | |
| AAD | DACM | Air-to-air gunnery | 4300R | X | X | | X | | | | | | 1.5 | D | | A | 1 | | | 485 | | | 4300 |
| | DACM | 1V1 RW | 4301R | X | X | X | | | | | | | 1.0 | D | | A | 1 | | | * | | | 4301 |

| UH-1Y CREW CHIEF AND AERIAL OBSERVER T&R SYLLABUS MATRIX (2000-6000 Phase) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER BASIC | ATTAIN | | | MAINTAIN | ACAD | | SIM | | FLIGHT | | COND | SEAT | TYPE | # A/C | NETWORK | NUM-NET | REFLY | EVAL | EOM | EVENT CONV |
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | |
| | DACM | 2V1 RW | 4302R | X | X | | X | | | | | | 1.0 | D | | A | 2 | | | 485 | | | 4302 |
| | DACM | 1V1 FW | 4304 | X | | | | | | | | | 1.0 | D | | A | 1 | | | * | | | 4304 |
| | DACM | 2V2 FW | 4305R | X | X | | X | | | | | | 1.0 | D | | A | 2 | | | 485 | | | 4305 |
| DACM TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 5 | 5.5 | | | | | | | | | | |
| CBRN | CBRN | A/P23P-14A(V) OR A/P | 4400R | X | X | | X | | | | | | 1.0 | D | | A | 1 | | | * | | | |
| CBRN TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 1.0 | | | | | | | | | | |
| CQ | CQ | DAY CQ | 4600R | X | X | | | | | | | | 1.0 | D | | A | 1 | | | 365 | | | 4600 |
| | CQ | NVD CQ | 4601R | X | X | | X | | | | | | 1.0 | NS | | A | 1 | | | 365 | | | 4601 |
| | CQ | UNAIDED CQ | 4602R | X | X | | | | | | | | 1.0 | N* | | A | 1 | | | 365 | | | 4602 |
| CQ TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 3.0 | | | | | | | | | | |
| INSTRUCTOR TRAINING (5000 Phase) | | | | | | | | | | | | | | | | | | | | | | | |
| TERF I | TERF I | TERFI IUT | 5100 | X | | | | | | | | | 1.5 | (NS) | | A | 1 | | | * | | | 5100 |
| | TERF I | TERFI CERT | 5101R | X | X | | | | | | | | 1.5 | (NS) | | A | 2 | | | * | X | | 5101 |
| TERF I TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 3.0 | | | | | | | | | | |
| AGI | AGI | GAU-17/A IUT | 5420 | X | | | | | | | | | 1.5 | (NS) | | A | 2 | | | * | | | 5420 |
| | AGI | CAU-17/A CERT | 5421R | X | X | | | | | | | | 1.5 | NS | | A | 2 | | | * | X | | 5421 |
| | AGI | M240D IUT | 5430 | X | | | | | | | | | 1.5 | (NS) | | A | 2 | | | * | | | 5430 |
| | AGI | M240D CERT | 5431R | X | X | | | | | | | | 1.5 | NS | | A | 2 | | | * | X | | 5431 |
| | AGI | GAU-21 IUT | 5440 | X | | | | | | | | | 1.5 | (NS) | | A | 2 | | | * | | | 5440 |
| | AGI | GAU-21 CERT | 5441R | X | X | | | | | | | | 1.5 | NS | | A | 2 | | | * | X | | 5441 |
| AGI TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 6 | 9.0 | | | | | | | | | | |
| DACMI | DACMI | DACM RW IUT | 5800 | X | | | | | | | | | 1.5 | D | | A | 1 | | | * | | | 5800 |
| | DACMI | DACM FW IUT | 5801 | X | | | | | | | | | 1.5 | D | | A | 2 | | | * | | | 5801 |
| | DACMI | DACM RW CERT | 5802R | X | X | | | | | | | | 1.5 | D | | A | 2 | | | * | X | | 5802 |
| | DACMI | DACM FW CERT | 5803R | X | X | | | | | | | | 1.5 | D | | A | 2 | | | * | X | | 5803 |
| DACMI TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 4 | 6.0 | | | | | | | | | | |
| NSI | NSI | NSI TERF/TAC LANDING | 5900 | X | | | | | | | | | 1.5 | NS | | A | 1 | | | * | | | 5900 |
| | NSI | NSI TAC ORD DELIVERY | 5901 | X | | | | | | | | | 1.5 | NS | | A | 2 | | | * | | | 5901 |
| | NSI | NSI CERT | 5904R | X | X | | | | | | | | 2.0 | NS | | A | 2 | | | * | X | | 5904 |
| REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (6000 Phase) | | | | | | | | | | | | | | | | | | | | | | | |
| NSI TOTAL | | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 5.0 | | | | | | | | | | |
| NTPS | NTPS | NATOPS OPEN BOOK | 6002R | X | X | X | X | | 1.5 | | | | | | | G | | | | 365 | X | X | 6001 |
| | NTPS | NATOPS CLOSED BOOK | 6003R | X | X | X | X | | 1.0 | | | | | | | G | | | | 365 | X | X | 6002 |
| | NTPS | NATOPS ORAL EXAM | 6004R | X | X | X | X | | 1.0 | | | | | | | G | | | | 365 | X | X | 6003 |
| | NTPS | ANNUAL NATOPS EVAL | 6101R | X | X | X | X | | | | | | 1.0 | (NS) | | A | 1 | | | 365 | X | X | 6101 |
| NTPS TOTAL | | | | | | | | 3 | 3.5 | 0 | 0.0 | 1 | 1.0 | | | | | | | | | | |
| CRM | CRM | ANN CRM GND TRAINING | 6005 | X | X | | X | | 1.0 | | | | | | | G | | | | 365 | X | X | 6010 |
| | CRM | ANN CRM EVAL FLIGHT | 6102R | X | X | X | X | | | | | | 1.0 | (NS) | | A | 1 | | | 365 | X | X | 6110 |
| CRM TOTAL | | | | | | | | 1 | 1.0 | 0 | 0.0 | 1 | 1.0 | | | | | | | | | | |
| QUAL | QUAL | GAU-17/A GUNNER QUAL | 6301R | X | X | | X | | | | | | 1.5 | NS | | A | 2 | | | 1095 | | | 6301 |

**UH-1Y CREW CHIEF AND AERIAL OBSERVER T&R SYLLABUS MATRIX (2000-6000 Phase)**

| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER BASIC | ATTAIN | | | MAINTAIN | ACAD | | SIM | | FLIGHT | | COND | SEAT | TYPE | # A/C | NETWORK | NUM-NET | REFLY | EVAL | EOM | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | R | SC | | # | TIME | # | TIME | # | TIME | | | | | | | | | | |
| | QUAL | M240D GUNNER QUALIFC | 6302R | X | X | | X | | | | | | 1.5 | NS | | A | 2 | | | 1095 | | | 6302 |
| | QUAL | GAU-21 GUNNER QUALIF | 6303R | X | X | | X | | | | | | 1.5 | NS | | A | 2 | | | 1095 | | | 6303 |
| | QUAL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 4.5 | | | | | | | | | | |

## 3.22.1 UH-1Y Crew Chief And Aerial Observer Ordnance And Range Table

| UH-1Y CREW CHIEF AND AERIAL OBSERVER ORDNANCE, RANGE AND EXTERNAL SYLLABUS SUPPORT TABLE (2000-6000 Phase) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUM | ORDNANCE | ORDNANCE QUANITY | ORDNANCE NOTES | RANGE | RANGE NOTES | EXTERNAL SYLLABUS SUPPORT | EXTERNAL SYLLABUS NOTES |
| CORE SKILLS (2000 Phase) | | | | | | | | | | |
| TERF | TERF | INTRO TERF NAV | 2100 | | | | | | Authorized TERF route, high bird if required | |
| | TERF | REVIEW NVD TERF ~NS | 2101R | | | | | | Authorized TERF route, high bird if required | |
| REC | SREC | SENSOR FAM | 2300 | | | | | | A/C with APU or aux power source | |
| | REC | SENSOR FAM | 2301R | | | | Laser safe range if available | | Thermally augmented threat vehicles if available | |
| ASPT | ASPT | TAC LANDINGS | 2400 | | | | | | | |
| | ASPT | ~NS NVD TAC LDGS | 2401 | | | | | | | |
| | ASPT | SECTION TAC LANDINGS | 2402R | | | | | | | |
| | ASPT | ~NS NVD SECTION TAC | 2403R | | | | | | | |
| FCLP | FCLP | DAY FCLP | 2501R | | | | | | FCLP pad | |
| | FCLP | NIGHT AND NVD FCLP | 2502R | | | | | | FCLP pad with overt and NVD deck lighting | |
| SWD | SWD | GAU-17/A INTRO | 2601R | 7.62mm | 1,500 rounds | | AG range | | | |
| | SWD | M240D INTRO | 2602R | 7.62mm | 400 rounds | | AG range | | | |
| | SWD | GAU-21 INTRO | 2603R | .50 cal | 600 rounds | | AG range | | | |
| | SWD | ~NS NVD GAU-17/A INT | 2605 | 7.62mm | 1,500 rounds | | AG range | | | |
| | SWD | ~NS NVD M240D INTRO | 2606 | 7.62mm | 400 rounds | | AG range | | | |
| | SWD | ~NS NVD GAU-21 INTRO | 2607 | .50 cal | 600 rounds | | AG range | | | |
| | SWD | LLL NVD GAU-17/A INT | 2609R | 7.62mm | 1,500 rounds | | AG range | | | |
| | SWD | LLL NVD M240D INTRO | 2610R | 7.62mm | 400 rounds | | AG range | | | |
| | SWD | LLL NVD GAU-21 INTRO | 2611R | .50 cal | 600 rounds | | AG range | | | |
| ANSQ | ANSQ | LLL NVD TERF/NAV | 2702 | | | | | | Authorized TERF route, high bird if required | |
| | ANSQ | LLL NVD SECTION TAC | 2703 | | | | | | | |
| | ANSQ | LLL NVD TAC ASPT | 2704R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | | AG range | | | |
| MISSION SKILLS (3000 Phase) | | | | | | | | | | |
| ESC | ESC | HELO ESCORT | 3100 | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Optional | AG range | (if required) | One or more assault support aircraft | |
| | ESC | NIGHT HELO ESCORT | 3101R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Optional | AG range | (if required) | One or more assault support aircraft | |
| | ESC | SURFACE ESCORT | 3103 | | 1,500 rounds 7.62mm GAU- | Optional | AG range | (if | One | |

UH-1Y CREW CHIEF AND AERIAL OBSERVER ORDNANCE, RANGE AND EXTERNAL SYLLABUS SUPPORT TABLE (2000-6000 Phase)

| SKILL | STAGE | T&R DESCRIPTION | EVENT | ORDNANCE | ORDNANCE | ORDNANCE | RANGE | RANGE | EXTERNAL | EXTERNAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | | | required) | ground/amphibious unit, minimum 3 vehicles | |
| ASPT | ASPT | FASTROPE | 3200R | | | | Sim/Actual rooftop or landing point (authorized fastrope site) | | HRST Master and at least two ropers | |
| | ASPT | NVD FASTROPE | 3201R | | | | Sim/Actual rooftop or landing point. (authorized fastrope site) | | HRST Master and at least two ropers | |
| AD | AD | TAC LOADING | 3206 | Configured with weapons | | no ordnance | | | Troops embarked (6 preferred) and actual cargo | |
| | AD | EXTERNALS | 3207R | | | | | | Appropriate external load | |
| CAS | CAS | CAS | 3303R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | | AG range | | | |
| FAC(A) | FAC(A) | FAC(A) | 3403R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Optional | AG range | | One CAS aircraft | |
| CORE PLUS (4000 Phase) | | | | | | | | | | |
| RIE | ASPT | PARADROP OPS INTRO | 4100 | | | | Drop Zone or authorized paraops area | | Jump Master and two jumpers | Jump master may be one of the jumpers |
| | ASPT | HELOCAST INTRO | 4101 | | | | Water drop zone or authorized helocast area | | Helocast Master and two swimmers | Helocast Master may be one of the swimmers |
| | ASPT | SPIE INTRO | 4102R | | | | Drop zone/landing zone or authorized SPIE area | | HRST Master and two ropers | |
| | ASPT | MAT INTRO/HIE | 4104R | | | | | | | |
| | ASPT | RAPPEL | 4105R | | | | | | HRST Master and ropers | |
| CAS | CAS | URBAN CAS | 4200R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Optional | AG range | | JTAC with appropriate marking devices (if available), suitable urban environment or MOUT facility | |
| AAD | DACM | Air-to-air gunnery | 4300R | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | | AG range or MLT range | | | |
| | DACM | 1V1 RW | 4301R | | | | | | One adversary helicopter | Dissimilar if available |
| | DACM | 2V1 RW | 4302R | | | | | | One adversary helicopter | Dissimilar if available |
| | DACM | 1V1 FW | 4304 | | | | | | 1 FW aggressor aircraft | |
| | DACM | 2V2 FW | 4305R | | | | | | 2 FW aggressor aircraft | |
| CBRN | CBRN | A/P23P-14A(V) OR A/P | 4400R | | | | | | | |
| CQ | CQ | DAY CQ | 4600R | | | | | | Landing platform afloat | |
| | CQ | NVD CQ | 4601R | | | | | | Landing platform afloat | |
| | CQ | UNAIDED CQ | 4602R | | | | | | Landing platform afloat | |

| UH-1Y CREW CHIEF AND AERIAL OBSERVER ORDNANCE, RANGE AND EXTERNAL SYLLABUS SUPPORT TABLE (2000-6000 Phase) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT | ORDNANCE | ORDNANCE | ORDNANCE | RANGE | RANGE | EXTERNAL | EXTERNAL |
| INSTRUCTOR TRAINING (5000 Phase) | | | | | | | | | | |
| TERF I | TERF I | TERFI IUT | 5100 | | | | | | Authorized TERF route, high bird if required | |
| | TERF I | TERFI CERT | 5101R | | | | | | Authorized TERF route, high bird if required | |
| AGI | AGI | GAU-17/A IUT | 5420 | 7.62mm | 1,500 rounds | | AG range | | | |
| | AGI | CAU-17/A CERT | 5421R | 7.62mm | 1,500 rounds | | AG range | | | |
| | AGI | M240D IUT | 5430 | 7.62mm | 400 rounds | | AG range | | | |
| | AGI | M240D CERT | 5431R | 7.62mm | 400 rounds | | AG range | | | |
| | AGI | GAU-21 IUT | 5440 | .50 cal | 600 rounds | | AG range | | | |
| | AGI | GAU-21 CERT | 5441R | .50 cal | 600 rounds | | AG range | | | |
| DACMI | DACMI | DACM RW IUT | 5800 | | | | | | | |
| | DACMI | DACM FW IUT | 5801 | | | | | | | |
| | DACMI | DACM RW CERT | 5802R | | | | | | | |
| | DACMI | DACM FW CERT | 5803R | | | | | | | |
| NSI | NSI | NSI TERF/TAC LANDING | 5900 | | | | | | | |
| | NSI | NSI TAC ORD DELIVERY | 5901 | | | | | | | |
| | NSI | NSI CERT | 5904R | | | | | | | |
| REQUIREMENTS, CERTIFICATIONS, DESIGNATIONS, AND QUALIFICATIONS (RCQD) (6000 Phase) | | | | | | | | | | |
| NTPS | NTPS | NATOPS OPEN BOOK | 6002R | | | | | | | |
| | NTPS | NATOPS CLOSED BOOK | 6003R | | | | | | | |
| | NTPS | NATOPS ORAL EXAM | 6004R | | | | | | | |
| | NTPS | ANNUAL NATOPS EVAL | 6101R | | | | | | | |
| CRM | CRM | ANN CRM GND TRAINING | 6005 | | | | | | | |
| | CRM | ANN CRM EVAL FLIGHT | 6102R | | | | | | | |
| QUAL | QUAL | GAU-17/A GUNNER QUAL | 6301R | 7.62mm | 1,500 rounds | | AG range | | | |
| | QUAL | M240D GUNNER QUALIFC | 6302R | 7.62mm | 400 rounds | | AG range | | | |
| | QUAL | GAU-21 GUNNER QUALIF | 6303R | .50 cal | 600 rounds | | AG range | | | |

3.22.2 UH-1Y Crew Chief And Aerial Observer Prerequisite And Chaining Table (2000-6000 Phase)

| UH-1Y CREW CHIEF AND AERIAL OBSERVER PREREQUISITE AND CHAINING TABLE (2000-6000 Phase) | | | | | | | |
|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUM | PREREQUISITE | PREREQUISITE NOTES | CHAINING | CHAINING NOTES |
| CORE SKILLS (2000 Phase) | | | | | | | |
| TERF | TERF | INTRO TERF NAV | 2100 | 2050,2051,1901 | | | |
| | TERF | REVIEW NVD TERF ~NS | 2101R | 2052,2100 | | 2100 | |
| REC | SREC | SENSOR FAM | 2300 | 2050,1901 | | | |
| | REC | SENSOR FAM | 2301R | 2300 | | | |
| ASPT | ASPT | TAC LANDINGS | 2400 | 2050,1901 | | | |
| | ASPT | ~NS NVD TAC LDGS | 2401 | 2052,2400 | | | |
| | ASPT | SECTION TAC LANDINGS | 2402R | 2100,2400 | | | |
| | ASPT | ~NS NVD SECTION TAC | 2403R | 2101,2301,2401,2402, | TERFQ | 2402 | |
| FCLP | FCLP | DAY FCLP | 2501R | 2400 | | | |
| | FCLP | NIGHT AND NVD FCLP | 2502R | 2401,2501 | | 2501 | |
| SWD | SWD | GAU-17/A INTRO | 2601R | 2053,2055,2100,2400 | | 2301,6301 | |
| | SWD | M240D INTRO | 2602R | 2053,2056,2100,2400 | | 2301,6302 | |
| | SWD | GAU-21 INTRO | 2603R | 2053,2057,2100,2400 | | 2301,6303 | |
| | SWD | ~NS NVD GAU-17/A INT | 2605 | 2058,2059,2101,2401,2601 | TERFQ | 2301,2601,6301 | |
| | SWD | ~NS NVD M240D INTRO | 2606 | 2058,2059,2101,2401,2602 | TERFQ | 2301,2602,6302 | |
| | SWD | ~NS NVD GAU-21 INTRO | 2607 | 2058,2059,2101,2401,2603 | TERFQ | 2301,2603,6303 | |
| | SWD | LLL NVD GAU-17/A INT | 2609R | 2403,2605 | NSQ | 2301,2601,6301 | |
| | SWD | LLL NVD M240D INTRO | 2610R | 2403,2606 | NSQ | 2301,2602,6302 | |
| | SWD | LLL NVD GAU-21 INTRO | 2611R | 2403,2607 | NSQ | 2301,2603,6303 | |
| ANSQ | ANSQ | LLL NVD TERF/NAV | 2702R | 2403 | NSQ | 2100,2101 | |
| | ANSQ | LLL NVD SECTION TAC | 2703 | 2403 | NSQ | 2402,2403 | |
| | ANSQ | LLL NVD TAC ASPT | 2704R | 2060,2702,2703 | 2609,2610 or 2611 based on configuration | 2402,2403,2702 | 2609,2610 or 2611 based on configuration |
| MISSION SKILLS (3000 Phase) | | | | | | | |
| ESC | ESC | HELO ESCORT | 3100 | 2101,2301,2401,3050 | TERFQ. 2601,2602 or 2603~ORD based on configuration | 2301 | 2601,2602 or 2603~ORD based on configuration |
| | ESC | NIGHT HELO ESCORT | 3101R | 3100,2403,2704~LLL. | NSQ,2605,2606 or 2607~NS ORD. 2609,2610 or 2611~LLL ORD based on configuration | 2301 | 2601,2602 or 2603~NS ORD. 2609,2610 or 2611~LLL ORD based on configuration |
| | ESC | SURFACE ESCORT | 3103 | 3050,3054,2101,2401,2403~NS, 2704~LLL. | TERFQ,2601,2602 or 2603~DAY ORD. 2605,2606 or 2607~NS ORD. 2609,2610 or 2611~LLL ORD based on configuration | 2301 | 2601,2602 or 2603~DAY ORD or NS. 2609,2610, or 2611~LLL ORD based on configuration |
| ASPT | ASPT | FASTROPE | 3200R | 3051,2101,2401 | | | |
| | ASPT | NVD FASTROPE | 3201R | 3200. 2403. 2704~LLL | NSQ | 3200 | |
| AD | AD | TAC LOADING | 3206 | | | | |
| | AD | EXTERNALS | 3207R | 2100,2400,2403~NS,2704~LLL | | 2100,2101~NS | |
| CAS | CAS | CAS | 3303R | 3053,2704 | 2609,2610, or 2611 based on configuration | 2301 | 2601,2602 or 2603~DAY ORD or NS. 2609,2610, or 2611~LLL ORD based on configuration |

| UH-1Y CREW CHIEF AND AERIAL OBSERVER PREREQUISITE AND CHAINING TABLE (2000-6000 Phase) | | | | | | | |
|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUM | PREREQUISITE | PREREQUISITE NOTES | CHAINING | CHAINING NOTES |
| FAC(A) | FAC(A) | FAC(A) | 3403R | 3053,3303 | 2609,2610, or 2611 based on configuration | 2301 | |
| CORE PLUS (4000 Phase) | | | | | | | |
| RIE | ASPT | PARADROP OPS INTRO | 4100 | 3051,2400,2403~NS,2704~LLL | | | |
| | ASPT | HELOCAST INTRO | 4101 | 3051,2100,2403~NS,2704~LLL | | 2100,2101~NS | |
| | ASPT | SPIE INTRO | 4102R | 3051,2101,2401,2403~NS,2704~LLL | TERFQ | 2100 | |
| | ASPT | MAT INTRO/HIE | 4104R | 2101,2401,2403~NS,2704~LLL | TERFQ | 2100,2101~NS | |
| | ASPT | RAPPEL | 4105R | 3051,2101,2401,2403~NS,2704~LLL | TERFQ | 2100,2101~NS | |
| CAS | CAS | URBAN CAS | 4200R | 3053,3303. | 2601,2602 or 2603~DAY ORD. 2605,2606 or 2607~ORD ~NS. 2609,2610 or 2611~LLL ORD based on configuration | 3303 | 2601,2602 or 2603~DAY ORD or NS. 2609,2610, or 2611~LLL ORD based on configuration |
| AAD | DACM | Air-to-air gunnery | 4300R | | 2601,2602, or 2603 based on configuration | | 2601,2602, or 2603 based on configuration |
| | DACM | 1V1 RW | 4301R | 4050,4051,2101,2401 | TERFQ | 2100 | |
| | DACM | 2V1 RW | 4302R | 4301 | TERFQ | 2100 | |
| | DACM | 1V1 FW | 4304 | 4050,4052,2101,2401 | TERFQ | 2100 | |
| | DACM | 2V2 FW | 4305R | 4304 | TERFQ | 2100 | |
| CBRN | CBRN | A/P23P-14A(V) OR A/P | 4400R | 2400 | | | |
| CQ | CQ | DAY CQ | 4600R | 2501 | | 2501 | |
| | CQ | NVD CQ | 4601R | 2502,4600,2403 | NSQ | 2501,2502,4600,4602 | |
| | CQ | UNAIDED CQ | 4602R | 2502,4600 | | 2501,2502,4600 | |
| INSTRUCTOR TRAINING (5000 Phase) | | | | | | | |
| TERF I | TERF I | TERFI IUT | 5100 | 6301,6302,6303 | Triple gunner | 2100,2101~NS | |
| | TERF I | TERFI CERT | 5101R | 5100 | | 2100,2101~NS | |
| AGI | AGI | GAU-17/A IUT | 5420 | 5101 | TERFI | 2301,2601 | 2609~LLL |
| | AGI | CAU-17/A CERT | 5421R | 5420 | | 2301,2601 | 2609~LLL |
| | AGI | M240D IUT | 5430 | 5101 | TERFI | 2301,2602 | 2610~LLL |
| | AGI | M240D CERT | 5431R | 5430 | | 2301,2602 | 2610~LLL |
| | AGI | GAU-21 IUT | 5440 | 5101 | TERFI | 2301,2603 | 2611~LLL |
| | AGI | GAU-21 CERT | 5441R | 5440 | | 2301,2603 | 2611~LLL |
| DACMI | DACMI | DACM RW IUT | 5800 | 4302 | Single AGI | 2100,4302 | |
| | DACMI | DACM FW IUT | 5801 | 4305 | Single AGI | 2100,4305 | |
| | DACMI | DACM RW CERT | 5802R | 5800 | Single AGI | 2100,4302 | |
| | DACMI | DACM FW CERT | 5803R | 5801 | Single AGI | 2100,4305 | |
| NSI | NSI | NSI TERF/TAC LANDING | 5900 | 5421,5431,5441 | Triple AGI | 2100,2101,2402,2403,2702 | |
| | NSI | NSI TAC ORD DELIVERY | 5901 | 5421,5431,5441 | Triple AGI | 2301,2702,3303 | 2601,2602 or 2603~NS ORD. 2609,2610, or 2611~LLL ORD based on configuration |
| | NSI | NSI CERT | 5904R | 5900,5901 | | 2301,2402,2403,2702,2704,3303 | 2609,2610 or 2611 based on configuration |
| REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGANTIONS (6000 Phase) | | | | | | | |
| NTPS | NTPS | NATOPS OPEN BOOK | 6002R | | | | |
| | NTPS | NATOPS CLOSED BOOK | 6003R | | | | |

| UH-1Y CREW CHIEF AND AERIAL OBSERVER PREREQUISITE AND CHAINING TABLE (2000-6000 Phase) | | | | | | | |
|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUM | PREREQUISITE | PREREQUISITE NOTES | CHAINING | CHAINING NOTES |
| | NTPS | NATOPS ORAL EXAM | 6004R | | | | |
| | NTPS | ANNUAL NATOPS EVAL | 6101R | 6002,6003,6004 | | | |
| CRM | CRM | ANN CRM GND TRAINING | 6005 | | | | |
| | CRM | ANN CRM EVAL FLIGHT | 6102R | 6005 | | | |
| QUAL | QUAL | GAU-17/A GUNNER QUAL | 6301R | 2609,2704,3101,3303 | ANSQ | | |
| | QUAL | M240D GUNNER QUALIFC | 6302R | 2610,2704,3101,3303 | ANSQ | | |
| | QUAL | GAU-21 GUNNER QUALIF | 6303R | 2611,2704,3101,3303 | ANSQ | | |

## 3.22.3 UH-1Y Crew Chief And Aerial Observer T&R Syllabus Matrix (1000 Phase)

| UH-1Y CREW CHIEF CORE SKILL INTRODUCTION TRAINING (1000 & FRS 5000 PHASE) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER | B | R | SC | # ACAD EVENTS | ACAD TIME | # SIM EVENTS | SIM TIME | # FLT EVENTS | FLIGHT TIME | COND | TYPE | # A/C or Sim | PREREQUISITE | PREREQUISITE NOTES | ORDNANCE NOTES | RANGE | RANGE NOTES | EXTERNAL SYLLABUS SUPPORT | EVAL | EVENT CONV |
| ACAD | ACAD | FRS SYLLABUS | | X | | | | 1.0 | | | | | | G | | | | | | | | | |
| ACAD SKILL TOTAL | | | | | | | 1 | 1.0 | 0 | 0.0 | 0 | 0.0 | | | | | | | | | | | |
| FAM | FAM | GRND PROC | 1100 | X | | | | | | | | 1.5 | D | A | 1 | 1000 | | | | | | | |
| | FAM | PAX/EPS | 1101 | X | | X | | | | | | 1.5 | D | A | 1 | 1100 | | | | | | | |
| | FAM | HLL NVD INTRO | 1102 | X | | X | | | | | | 1.5 | NS | A | 1 | 1101 | | | | | | | |
| FAM SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 3 | 4.5 | | | | | | | | | | | |
| FORM | FORM | TAC FORM INTRO | 1301 | X | | | | | | | | 1.5 | D | A | 2 | 1101 | | | | | | | |
| | FORM | NVD FORM INTRO | 1303 | X | | | | | | | | 1.5 | NS | A | 2 | 1102,1301 | | | | | | | |
| FORM SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 3.0 | | | | | | | | | | | |
| TERF | TERF | TERF INTRO | 1401 | X | | X | | | | | | 1.0 | D | A | 1 | 1101 | | | | | Auth TERF Area | | |
| | TERF | NVD TERF INTRO | 1403 | X | | | | | | | | 1.0 | NS | A | 1 | 1102,1401 | | | | | Auth TERF Area | | |
| TERF SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 2.0 | | | | | | | | | | | |
| NAV | NAV | NAV INTRO | 1500 | X | | | | | | | | 1.5 | (NS) | A | 1 | 1102 | | | | | | | |
| NAV SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 1.5 | | | | | | | | | | | |
| SWD | SSWD | SSWD | S1600 | X | | | | | | 1.5 | | | D | S/A | 1 | | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Live fire range | If using the Static Weapons Trainer | UH-1Y enlisted aircrew sim or Static Weapons Trainer | | |
| | SWD | BCWD INTRO | 1601 | X | | | | | | | | 1.5 | D | A | 1 | 1101,1600 | | 1,500 rounds 7.62mm GAU-17/A, 400 rounds 7.62mm M-240D, or 600 rounds .50 cal GAU-21 | Aerial gunnery range | | | | |
| SWD SKILL TOTAL | | | | | | | 0 | 0.0 | 1 | 1.5 | 1 | 1.5 | | | | | | | | | | | |
| ASPT | ASPT | CAL/HIE INTRO | 1800 | X | | | | | | | | 1.5 | D | A | 1 | 1101 | | | | | | | |

UH-1Y CREW CHIEF CORE SKILL INTRODUCTION TRAINING (1000 & FRS 5000 PHASE)

| SKILL | STAGE | T&R DESCRIPTION | EVENT NUMBER | B | R | SC | # ACAD EVENTS | ACAD TIME | # SIM EVENTS | SIM TIME | # FLT EVENTS | FLIGHT TIME | COND | TYPE | # A/C or Sim | PREREQUISITE | PREREQUISITE NOTES | ORDNANCE NOTES | RANGE | RANGE NOTES | EXTERNAL SYLLABUS SUPPORT | EVAL | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ASPT | TAC LANDING INTRO | 1801 | X | | X | | | | | | 1.5 | D | A | 1 | 1800 | FAM-1101 for AOUI | | | | | | |
| | ASPT | INTRO NS CAL/HIE | 1802 | X | | X | | | | | | 1.5 | NS | A | 1 | 1102,1801 | | | | | | | |
| | ASPT | REVIEW NS CALS | 1803 | X | | | | | | | | 1.5 | NS | A | 1 | 1802 | | | | | | | |
| | ASPT | EXT/HOIST INTRO | 1804 | X | | | | | | | | 1.5 | D | A/S | 1 | 1101 | | | | | Ext load, hoist | | |
| ASPT SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 5 | 7.5 | | | | | | | | | | | |
| CSIX | CSIX | CORE SKILL CHECK | 1901 | X | | X | | | | | | 1.0 | (NS) | A | 1 | 1100-1102,1301,1303,1401,1403, 1500,1600, 1601,1800-1804 | 1800 and 1804 not required for AOUI | | | | | X | |
| CSIX SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 1 | 1.0 | | | | | | | | | | | |
| 1000 PHASE TOTAL | | | | | | | 1 | 1.0 | 1 | 1.5 | 15 | 21.0 | | | | | | | | | | | |
| UH-1Y CREW CHIEF FRS INSTRUCTOR TRAINING (5000 PHASE) | | | | | | | | | | | | | | | | | | | | | | | |
| FRSI | FRSI | INTRO INST | 5300R | X | X | | | | | | | 2.0 | D | A | 1 | 5421,5431,5441 | Triple AGI | | | | | X | |
| | FRSI | EXT/HOIST OPS | 5301R | X | X | | | | | | | 2.0 | D | A | 1 | 5300 | | | | | Ext load | X | |
| FRSI SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 4.0 | | | | | | | | | | | |
| NSFI | NSFI | NSFI IUT | 5600 | X | | | | | | | | 1.5 | NS | A | 1 | 5301 | FRSI | | | | | | |
| | NSFI | NSFI CERT | 5601R | X | X | | | | | | | 1.5 | NS | A | 1 | 5600 | | | | | | X | |
| NSFI SKILL TOTAL | | | | | | | 0 | 0.0 | 0 | 0.0 | 2 | 3.0 | | | | | | | | | | | |

3.23 SYLLABUS EVALUATION FORMS. MAWTS-1, the syllabus sponsor, maintains and updates training and readiness grade sheets.

3.24 T&R QUICK REFERENCE GUIDE

| UH-1Y T&R CODES QUICK REFERENCE | | |
|---|---|---|
| TERF | 2100* | DAY TERF |
| | 2101* | NVD TERF |
| REC | 2300* | SENSOR FAM (GROUND) (2) |
| | 2301* | SENSOR FAM (AIR) (2) |
| ASPT | 2400* | TAC LANDINGS |
| | 2401* | ~NS NVD TAC LANDINGS |
| | 2402* | SECTION TAC LANDINGS |
| | 2403* | ~NS NVD SECTION TAC LAND (NSQ) |
| FCLP | 2501* | DAY FCLP |
| | 2502* | NVD FCLP |
| SWD | 2601* | GAU-17/A INTRO |
| | 2602* | M-240D INTRO |
| | 2603* | GAU-21 INTRO |
| | 2605* | ~NS NVD GAU-17/A INTRO |
| | 2606* | ~NS NVD M-240D INTRO |
| | 2607* | ~NS NVD GAU-21 INTRO |
| | 2609* | LLL NVD GAU-17/A INTRO |
| | 2610* | LLL NVD M 240D INTRO |
| | 2611* | LLL NVD GAU-21 INTRO |
| ANSQ | 2702* | LLL NVD TERF/NAV |
| | 2703* | LLL NVD SECTION TAC LANDINGS |
| | 2704* | LLL NVD TAC ASPT (ANSQ) |
| ESC | 3100* | HELO ESCORT (1) |
| | 3101* | NIGHT HELO ESCORT (1) |
| | 3103 | SERFACE ESCORT (1) (2) (3) |
| ASPT | 3200 | FASTROPE |
| | 3201 | NVD FASTROPE (3) |
| AD | 3206 | TAC LOADING (2) |
| | 3207 | EXTERNALS (2) (3) |
| CAS | 3303* | CAS (2) (3) |
| FAC(A) | 3403* | FAC(A) (2) (3) |
| ASPT | 4100 | PARADROP INTRO (2) (3) |
| | 4101 | HELOCAST INTRO (2) (3) |
| | 4102 | SPIE INTRO (2) (3) |
| | 4104* | MAT INTRO/HIE (2) (3) |
| | 4105 | RAPPEL (2) (3) |
| CAS | 4200* | URBAN CAS (2) (3) |
| DACM | 4300* | AIR-TO-AIR GUNNERY |
| | 4301* | 1V1 RW |
| | 4302* | 2V1 RW |
| | 4304* | 1V1 FW |
| | 4305* | 2V2 FW |
| CBRN | 4400* | PROTECTIVE MASK FAM |
| CQ | 4600* | DAY CQ |
| | 4601* | NVD CQ |
| | 4602* | UNAIDED CQ |
| TERF | 5100 | TERFI IUT (2) (3) |
| | 5101 | TERFI CERT (2) (3) |
| FRSI | 5300 | FRS INSTRUCTOR EVALUATION |
| | 5301 | FRS INSTRUCTOR EVALUATION |
| AGI | 5420 | GAU-17/A IUT (2) (3) |
| | 5421 | GAU-17/A CERT (3) |
| | 5430 | M240D IUT (2) (3) |
| | 5431 | M240D CERT (3) |
| | 5440 | GAU-21 IUT (2) (3) |
| | 5441 | GAU-21 CERT (3) |
| NSFI | 5600 | NSFI IUT |
| | 5601 | NSFI CERT |
| DACMI | 5800 | DACMI RW IUT |
| | 5801 | DACMI FW IUT |
| | 5802 | DACMI RW CERT |
| | 5803 | DACMI FW CERT |
| NSI | 5900 | NSI TERF/TAC LANDING IUT (3) |
| | 5901 | NSI TAC ORD DELIVERY IUT (3) |
| | 5904 | NSI CERT |
| NTPS | 6002* | NATOPS OPEN BOOK |
| | 6003* | NATOPS CLOSED BOOK |
| | 6004* | NATOPS ORAL EXAM |
| | 6101* | NATOPS CHECK (2) (3) |
| CRM | 6005* | CRM GROUND |
| | 6102* | CRM FLT (2) (3) |
| QUAL | 6301* | GAU-17/A GUNNER QUAL |
| | 6302* | M-240D GUNNER QUAL |
| | 6303* | GAU-21 GUNNER QUAL |
| 1 | ORD OPTIONAL | |
| 2 | NIGHT OPTIONAL | |
| 3 | HLL/LLL OPTIONAL | |
| ASTERISK (*) | EVENTS REQUIRED FOR AERIAL OBSERVERS | |