

(4) Nominated by the Standardization Board.

d. The Division Leader Under Instruction (DLUI) will perform preflight planning, conduct a training or tactical mission and NATOPS brief, lead a division and conduct a debrief. For each DLUI event, the DLUI shall be evaluated on the following:

(1) Plan:

- Learning objective accomplishment.
- Training area selection.
- Mission Products.
- Contingency planning.
- ANTP series publications utilization.
- External support coordination.

(2) Execution:

- Flight Leadership.
- Professionalism.
- Airwork.
- Crew Resource Management (CRM).
- NATOPS adherence.
- SOP's/Orders adherence.

e. The squadron will ensure that the DLUI is prepared for the division lead syllabus. The flight stage of this syllabus must be complete within six (6) months following the first flight. If six months have elapsed since completion of any DLUI flight, that flight must be reflown prior to completing the final certification flight.

f. For all DL-6403 and DL-6404 flights, the squadron operations department will provide the proposed division leader with a tactical scenario containing sufficient information to enable mission analysis and planning.

2.19.8.3 At the discretion of squadron commanding officers, qualified division leaders may be nominated as MAG FLSEs to the MAG commanding officer. The MAG CO designation as a MAG FLSE shall be entered into the instructor pilot's NATOPS jacket and APR.

2.19.8.4 Minimum Crew Requirements. P/CP/CC/AGO.

2.19.8.5 Ground/Academic Training. The MAWTS-1 CH-46E Course Catalog contains the required readings, chalk talks, and lectures which shall be completed prior to starting the Division Leader (DL) stage. The following matrix will be used to track academic and administrative training:

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2.19.8.6 Prerequisites

T&R CODE	EVENT
ACAD-2021	(U) RULES OF ENGAGEMENT
ACAD-2022	(U) TACTICAL FLIGHT BRIEFING
ACAD-2024	(U) OBJECTIVE AREA PLANNING
ACPM-8640	(U) JOINT DATA NETWORK
ACPM-8641	(U) MAGTF THEATER AND NATIONAL ISR EMPLOYMENT

DL-6401 1.5 E 3 or 4 Assault Support Aircraft A D

Goal. Demonstrate the ability to conduct a day division CAL and section TERF navigation flight as the division leader.

Requirement. Plan, brief, lead, and debrief a day division CAL and section TERF navigation flight. The DLUI shall conduct all requirements outlined in CAL-2203 and TERF-2305 as the division leader. Upon successful completion, CAL-2203, TERF-2305, DL-6401 shall be logged for tracking purposes.

Discuss:

CRM while conducting CALs and section TERF navigation.
 Crew comfort level while conducting CALs and section TERF\ navigation.
 Lost comm procedures and considerations while conducting CALs and TERF navigation.
 IIMC procedures and rendezvous while conducting day CALs and TERF navigation.
 Loss of visual contact and rendezvous/join-up procedures.
 In-flight emergency coordination.
 Division tactical approaches.
 Landings and departures to a confined area in all threat environments.
 Timeline planning and management.
 Fuel planning considerations and the use of mission planning systems.
 Mission planning for training missions (e.g., how to get all of the X's that S-3 has scheduled).

Introduce: Division flight leadership while conducting day division CALs and section TERF navigation.

Review: CAL-2203 and TERF-2305.

Performance Standards. Comply with all performance standards outlined in CAL-2203 and TERF-2304, except that the route must be flown remaining oriented within 200 meters. In addition, the DLUI shall arrive at the LZ or final checkpoint within 30 seconds of the planned arrival time, demonstrate the ability to plan and execute a training mission IAW the T&R codes annotated on the flight schedule, maintain situational awareness of wingman's position, training area boundaries, and timeline, enforce flight discipline (adherence to SOPs, training rules, NATOPS, etc.), ensure flight safety, exercise

flight coordination and control to maneuver the flight as necessary to remain within the training area, demonstrate proper understanding of high bird roles and responsibilities (if required), maintain proper formation and mutual support, demonstrate proper wingman considerations throughout the CAL pattern, maintain division integrity during approach and landing, communicate intentions to the flight, demonstrate proper decision making in response to changing situations (e.g., EPs, IIMC, loss of visual contact), and demonstrate an understanding of objective area planning and briefing IAW ANTTP series publications.

Prerequisites. SL, CAL-2203, and TERF-2305.

External Syllabus Support. CAL zone that accommodates multiple aircraft and approved TERF route (special use airspace preferred).

DL-6402

1.5 E 3 OR 4 Assault Support aircraft A NS

Goal. Demonstrate the ability to conduct a NS division CAL and section TERF navigation flight as the division leader.

Requirement. Plan, brief, lead, and debrief a day division CAL and section TERF navigation flight. The DLUI shall conduct all requirements outlined in NS-2604 and 2606 or NS-2653 and 2655 (light level dependent) as the division leader. Upon successful completion, NS-2604, NS-2606 or NS-2653, NS-2655, and DL-6402 shall be logged for tracking purposes.

Discuss:

- CRM while conducting NS CALs and section TERF navigation.
- Crew comfort level while conducting NS CALs and section TERF navigation.
- Lost comm procedures and considerations while conducting NS CALs and TERF navigation.
- IIMC procedures and rendezvous while conducting NS CALs and TERF navigation.
- Loss of visual contact and rendezvous/join-up procedures.
- In-flight emergency coordination.
- NS division formation techniques.
- External aircraft lighting considerations during NS formation operations.
- NS TERF considerations.
- Timeline planning and management.
- Fuel planning considerations and the use of mission planning systems.
- Mission planning for training missions (e.g., how to get all of the X's that S-3 has scheduled).

Introduce: Division flight leadership while conducting NS division CALs and section TERF navigation.

Review: NS-2604 and NS-2606 or NS-2654 and NS-2655.

Performance Standards. Comply with all performance standards outlined in NS-2604 and NS-2606 or NS-2654 and NS-2655 except that the route must be flown remaining oriented within 200 meters and arrival at the LZ or final checkpoint must be within 30 seconds of

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planned arrival time. In addition, the DLUI shall demonstrate the ability to plan and execute a training mission IAW the T&R codes annotated on the flight schedule, maintain situational awareness of wingmen's position, training area boundaries, and timeline, enforce flight discipline (adherence to SOPs, training rules, NATOPS, etc.), ensure flight safety, exercise flight coordination and control to maneuver the flight as necessary to remain within the training area, demonstrate proper understanding of high bird roles and responsibilities (if required), maintain proper formation and mutual support, demonstrate proper wingman considerations throughout the CAL pattern, maintain division integrity during approach and landing, communicate intentions to the flight, demonstrate the proper understanding of ordnance effects and weapons employment while using NS, demonstrate proper decision making in response to changing situations (e.g., EPs, IIMC, loss of visual contact), and demonstrate an understanding of objective area planning and briefing IAW ANTTP series publications.

Prerequisite. SL, NS-2606 and NS-2655.

External Syllabus Support. NS compatible CAL zone that accommodates multiple aircraft and approved TERF route (special use airspace preferred).

DL-6403

1.5 E 3 or 4 Assault Support aircraft A (N)

Goal. Conduct a day or night MCTL mission based on a tactical scenario as the division leader.

Requirement. Plan, brief, lead, and debrief a day or night division tactical mission in a medium threat environment to include external fire support assets/agencies (actual or notional), escorts (actual or notional), and aerial gunnery (if possible). The DLUI shall conduct all requirements outlined in TAC-2501 or TAC-2502 (day or night dependent) as the division leader. Upon successful completion, TAC-2501 or TAC-2502, AG-2401 or AG-2405 (if executed), and DL-6403 shall be logged for tracking purposes.

Discuss:

CRM during a tactical mission.

Emergencies in a tactical environment.

Crew comfort level during a tactical mission.

Mission analysis and METT-TSL.

Marine Corps Planning Process (MCP) / Rapid Response Planning Process (R2P2).

Tactical mission planning, briefing, and execution.

Rules of Engagement (ROE) as they apply to the mission.

GCE support considerations.

Weapons employment considerations (sectors of fire vs. fields of fire).

Multi-plane aerial gunnery considerations in the objective area.

ASE employment considerations (expendable use day and night).

Evasive maneuvers (IR SAM, SA/AAA, radar threat).

Objective area planning/flow considerations and briefing techniques.

Fire support considerations.

Escort considerations and escort tactics.

Contingency planning (CASEVAC, immediate TRAP, emergency extract, immediate reembarkation, Sparrowhawk/QRF).
Lost comm considerations.
Procedural control (shore-based and sea-based).
Immediate tasking.
Go vs. No-go criteria.
In-flight changes to the route, LZ, L-hour.
EMCON and radio procedures.
CBRN considerations.
Delegation of responsibilities to the flight.
Detailed fuel planning considerations and the use of mission planning systems.
Navigation and timing considerations.
Multi-plane aerial gunnery considerations in the objective area.
Cockpit management and CNCS employment considerations/techniques.
Ordnance effects on NS.
Laser aiming devices (GCP-2/A, IZLID-200P).

Introduce: Division flight leadership while conducting a day or night tactical mission in a low/medium threat environment.

Review: TAC-2501 or TAC-2502.

Performance Standards. Comply with all performance standards outlined in TAC-2501 or TAC-2502 except that the route must be flown remaining oriented within 200 meters and arrival at the LZ or final checkpoint must be within 30 seconds of planned arrival time. In addition, the DLUI shall conduct objective area planning and briefing IAW ANTPP series publications, maintain situational awareness of wingmen, mission assets, fires, and mission progress, demonstrate proper CNCS utilization to assist with navigation and timing, utilize appropriate tactical approach and landing profiles based on the threat and situation, demonstrate an understanding of evasive maneuvers and ground threat reaction, execute radio procedures IAW planned EMCON condition, communicate intentions to the flight, demonstrate proper decision making in response to changing situations (e.g., EPs, pop-up threats, downed aircraft), demonstrate proper decision making in response to immediate missions and/or contingencies.

Prerequisite. DL-6401 and DL-6402.

Ordnance. As required.

Range Requirements. Ranges as required based on the tactical scenario and tactics employed (e.g., AG, expendable use, EW).

External Syllabus Support. NS compatible CAL zone that accommodates multiple aircraft and other external support as required by the scenario (e.g., HST, threat emitter/simulator).

DL-6404

1.5 R,E 3 or 4 Assault Support aircraft A (N)

Goal. Conduct a day or night division leader check utilizing a MCTL mission based on a tactical scenario as the division leader.

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Requirement. Plan, brief, lead, and debrief a day or night division tactical mission in a medium threat environment to include external fire support assets/agencies (actual or notional), escorts (actual or notional), and aerial gunnery (if possible) as the division leader. The DLUI shall conduct all requirements outlined in TAC-2501 or TAC-2502 (day or night dependent) as the division leader. Upon successful completion, TAC-2501 or TAC-2502, AG-2401 or AG-2405 (if executed), and DL-6404 shall be logged for tracking purposes.

Discuss:

CRM during a tactical mission.
Emergencies in a tactical environment.
Crew comfort level during a tactical mission.
Flight leader maturity.
Any previously introduced discuss items from DL-6401 through DL-6403.

Review:

Division flight leadership.
DL-6401 through DL-6403.

Performance Standards. Comply with all performance standards outlined in DL-6401 through DL-6403 as required. In addition, the DLUI shall possess the tactical and operational knowledge required of a division leader.

Prerequisite. DL-6403, DL academics complete.

Ordnance. As required.

Range Requirements. Ranges as required based on the tactical scenario and tactics employed (e.g., AG, expendable use, EW).

External Syllabus Support. NS compatible CAL zone that accommodates multiple aircraft and other external support as required by the scenario (e.g., HST, threat emitter/simulator).

2.19.9 Flight Leader (FL)

2.19.9.1 Purpose. To prepare and evaluate the prospective flight lead's ability to plan, brief and lead a multi-element tactical flight.

2.19.9.2 General

a. Prospective Flight Leads (FL) shall conduct the following sortie in order to develop the PUI's flight leadership necessary for designation.

b. Flight Leader training will be conducted under the guidance of an FL or higher. Informal mission commander training may be conducted at any time, however, for consistency; the FL-6501 code will be reserved for the check flight. The check flight shall be evaluated by a FLSE from another command. If a FLSE from another command is unavailable, the MAG/MAGTF commanding officer may approve the use of internal squadron FLSE.

c. A prospective FL must be fully qualified to lead a flight under all conditions in performance of any of the squadron tasks as well as meet the following prerequisites:

- (1) Be a CH-46E Division Leader.
- (2) Have no less than 750 total flight hours.
- (3) Have flown a minimum of three flights as a designated Division Lead.
- (4) Nominated by the Standardization Board.

d. The FL Under Instruction (FLUI) will perform preflight planning, conduct a tactical mission brief, lead a flight of five (5) or more assault aircraft with escorts, and conduct a debrief. For each FLUI event, the FLUI shall be evaluated on the following:

(1) Plan:

- Mission Products.
- Contingency planning.
- ANTP series publications utilization.
- External support coordination.

(2) Execution:

- Flight Leadership.
- Professionalism.
- Airwork.
- Crew Resource Management (CRM).
- NATOPS adherence.
- SOPs/Orders adherence.

e. If not flown in conjunction with MEU workups, WTI or MAGTF exercise, the squadron operations department will provide the proposed FL with a tactical scenario containing sufficient information to enable mission analysis and planning.

2.19.9.3 Minimum Crew Requirements. P/CP/CC/AGO.

2.19.9.4 Ground/Academic Training. The MAWTS-1 CH-46E Course Catalog contains the required readings, chalk talks, and lectures which shall be completed prior to starting the Flight Leader (FL) stage.

2.19.9.4 Prerequisites

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T&R CODE	EVENT
ACAD-2022	(U) TACTICAL FLIGHT BRIEFING
ACAD-2023	(U) LARGE FLIGHT LEADERSHIP
ACAD-2028	(U) EXECUTION CHECKLIST
ACAD-3000	(S) TRAP
ACAD-4012	(U) JCAS
ACAD-4013	(U) JOINT CAS AIRCRAFT CAPABILITIES
ACAD-4016	(U) ASD HELICOPTER ASSAULT KEY PLAYERS
ACAD-3003	(S) NEO EXECUTION
ACPM-8620	(U) ESG/CSG INTEGRATION

FL-6501 1.5 R,E 5+ Assault Support aircraft A (N)

Goal. Conduct a day or night flight leader check utilizing a MCTL mission based on a tactical scenario as the flight leader.

Requirement. Plan, brief, lead, and debrief a day or night multi-element tactical mission to include external fire support assets/agencies (actual or notional), actual escorts, and aerial gunnery (if possible) as the flight leader. The FLUI shall conduct all requirements outlined in TAC-2501 or TAC-2502 or TAC-4501 or TAC-4502 (day/night and threat environment dependent) as the flight leader. Upon successful completion, the appropriate TAC code, AG code (if executed), and FL-6501 shall be logged for tracking purposes.

Discuss:

- CRM during a tactical mission.
- Crew comfort level during a tactical mission.
- Mission analysis and METT-TSL.
- Marine Corps Planning Process (MCP) / Rapid Response Planning Process (R2P2).
- Tactical mission planning, briefing, and execution.
- GCE support considerations.
- MACCS agencies, functions, and employment.
- Weapons employment considerations (sectors of fire vs. fields of fire).
- Aerial gunnery procedures.
- ASE employment considerations (expendable use day and night).
- Objective area planning/flow considerations and briefing techniques.
- Fire support considerations.
- Escort considerations and escort tactics.
- Multiple wave requirements for an objective area.
- Deconfliction and integration of multiple flight elements.
- Landing zone, landing site, landing point considerations.
- EMCON and radio procedures.
- Secure vs. active communications.
- Delegation of responsibilities to the flight.
- Cockpit management and CNCS employment considerations/techniques.

Review:

Flight leadership...
TAC-2501, TAC-2502, TAC-4501, or TAC-4502.

Performance Standards. Comply with all performance standards outlined in TAC-2501, TAC-2502, TAC-4501, or TAC-4502 except that the route must be flown remaining oriented within 200 meters and arrival at the LZ or final checkpoint must be within 30 seconds of planned arrival time. In addition, the DLUI shall conduct objective area planning and briefing IAW ANTP series publications, maintain situational awareness of all wingmen, assault flight elements, other mission assets, fires, and the progress of the mission, coordinate with and control all supporting arms, escorts, and other external agencies as necessary for mission accomplishment, demonstrate proper CNCS utilization to assist with navigation and timing, utilize appropriate tactical approach and landing profiles based on the threat and situation, demonstrate an understanding of evasive maneuvers and ground threat reaction, execute radio procedures IAW planned EMCON condition, demonstrate the proper understanding of ordnance effects and weapons employment while using NS, demonstrate proper decision making in response to changing situations (e.g., EPs, pop-up threats, downed aircraft), demonstrate proper decision making in response to immediate missions and/or contingencies. Communicate intentions to the flight, maintained positive control of all wingmen and flight elements, and possess the tactical and operational knowledge required of a flight leader.

Prerequisite. DL, FL academics complete.

Ordnance. As required.

Range Requirements. Ranges as required based on the tactical scenario and tactics employed (e.g., AG, expendable use, EW).

External Syllabus Support. NS compatible CAL zone that accommodates multiple aircraft and other external support as required by the scenario (e.g., HST, threat emitter/simulator).

2.19.10 Air Mission Commander (AMC)

2.19.10.1 Purpose. To prepare and evaluate the prospective Air Mission Commander's (AMC's) ability to plan, brief and lead a multi-element tactical flight.

2.19.10.2 General

a. Designation as AMC is a function of command. When designating AMCs, the squadron commanding officer will consider qualities of personal integrity, judgment and initiative in addition to rank and flight experience. Prospective AMCs shall conduct the following flight in order to develop/evaluate the PUI's flight leadership. Informal mission commander training may be conducted at any time under the guidance of a qualified AMC, however, for consistency; the AMC-6601 code will be reserved for the check flight. The check flight shall be evaluated by a FLSE from another command. If a FLSE from another command is unavailable, the MAG/MAGTF commanding officer may approve the use of internal squadron FLSE. AMC check flights will be evaluated by a qualified AMC.

b. An AMC is responsible for all phases of the assigned mission except those aspects of safety of flight that are related to the physical control of the aircraft and fall within the prerogatives of the pilot in command.

c. A prospective AMC must be fully qualified to lead a flight under all conditions in performance of any of the squadron tasks as well as meet the following prerequisites:

- (1) Be a designated CH-46E Division Leader.
- (2) Minimum of 750 total flight hours and three flights as a designated Division Leader.
- (3) Nominated by the Standardization Board.

d. The AMC Under Instruction (AMCUI) will perform preflight planning, conduct a tactical mission brief, lead a multi-division integrated mission with escorts, and conduct a debrief. Evaluation will be based on brief delivery, coordination and supervision of key personnel (FL, EFL, SFL & HUC), flight management/leadership, communication procedures, plan flexibility, use of supporting arms, and overall command and control of the evolution.

2.19.10.3 Minimum Crew Requirements. N/A

2.19.10.4 Ground/Academic Training. The MAWTS-1 CH-46E Course Catalog contains the required readings and chalk talks which shall be completed prior to starting the Air Mission Commander (AMC) stage. The following matrix will be used to track academic and administrative training:

2.19.10.5 Prerequisites

TCR CODE	EVENT
ACAD-3005	(U) RAPID RESPONSE PLANNING PROCESS
ACAD-4011	(U) AIR MISSION COMMANDER
ACAD-4016	(U) ASD HELICOPTER ASSAULT KEY PLAYERS

AMC-6601 1.5 R E 1+ Assault Element and 1+ RW or FW escort Element (N)

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

Requirement. Plan, brief, lead, and debrief a day or night 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 should lead the mission from a C&C platform or COC (as appropriate).

Discuss:

Mission analysis and METT-TSL.
Marine Corps Planning Process (MCP) / 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 Coordination 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 mission analysis IAW MCWP 5-1, delegate mission tasks to the most advantageous asset/flight, ensure coordination and supervision of key personnel during planning, conduct tactical planning IAW ANTP series publications, develop a plan that integrates the six functions of Marine Aviation and AGS, develop a plan that fully supports the GCE ground scheme of maneuver and Essential Fire Support Tasks (EFSTs), conduct an AMC brief IAW ANTP series publications, maintain SA of all assets participating in the mission, maintain SA on mission progress/execution, maximize C&C platform capabilities, demonstrate proper decision making and task delegation in response to immediate missions and/or contingencies, execute appropriate command and control to ensure mission success. 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. Possess the tactical and operational knowledge required of an AMC.

Prerequisite. Designated Flight Leader and AMC academics complete.

Ordnance. As required.

Range Requirements. 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).

2.19.11 Flight Leader Standardization Evaluator (FLSE) Training

2.19.11.1 Purpose. Each MAG with CH-46E aircraft shall assign an appropriate number of FLSEs to sufficiently conduct Flight Leader evaluation requirements IAW this publication.

2.19.11.2 General

a. Each squadron commanding officer will nominate a minimum of two FLSEs to their corresponding MAG Commanding Officer.

b. Each FLSE will be designated in writing by the MAG Commanding Officer.

c. The MAG Operations department will be responsible for coordinating the scheduling of FLSE required flights.

d. FLSE designated personnel shall attend MAG-sponsored semi-annual FLSE standardization training.

e. FLSE certification of prospective flight leaders for deployed units or locations where a FLSE from a different unit is not available to conduct the certification may be conducted by an internal FLSE with MAG/MAGTF commander approval.

2.19.11.3 Minimum Requirements

a. Designated Flight Lead.

b. Must be well-versed in all academic readings, classes and chalk talks listed in Flight Leader POIs.

2.19.11.4 Flight and Simulator Event Training. No additional flight or simulator training is required for the designation of an FLSE.

2.20 AVIATION CAREER PROGRESSION MODEL (8000)

2.20.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF and ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

2.20.1.1 Marine Air Command and Control System (MACCS)

2.20.1.2 Aviation Ground Support

2.20.1.3 Joint Air Operations

2.20.1.4 ACE Battle Staff

2.20.1.5 MAGTF

2.20.1.6 Seabased Operations

2.20.1.7 Combatant Commander Organizations

2.20.2 General

2.20.2.1 The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

2.20.2.2 ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events are listed below.

TRAINING PHASE	ACPM ACADEMIC EVENT	PRE-REQUISITE TO
CORE SKILL	(U) ACPM-8200 MACCS AGENCIES, FUNCTIONS, AND CONTROL OF AIRCRAFT AND MISSILES	TAC STAGE/CQ STAGE
	(U) ACPM-8201 MWCS BRIEF	TAC STAGE
	(U) ACPM-8202 ACA & AIRSPACE	CQ STAGE
	(U) ACPM-8210 AVIATION GROUND SUPPORT*	TAC STAGE
	(U) ACPM-8230 ACE BATTLESTAFF	TAC STAGE
	(U) ACPM-8231 BATTLE COMMAND DISPLAY	TAC STAGE
	(U) ACPM-8240 SIX FUNCTIONS OF MARINE AVIATION**	TAC STAGE
	(U) ACPM-8241 ASR/JTAR INTRODUCTION AND PRACTICAL APPLICATION	TAC STAGE
	(U) ACPM-8242 SITE COMMAND PRIMER	TAC STAGE
	(U) ACPM-8250 THEATER AIR GROUND SYSTEM (TAGS)	GTR STAGE
	MISSION SKILL	(U) ACPM-8300 AIR DEFENSE
(U) ACPM-8310 FORWARD ARMING REFUELING POINT (FARP) OPERATIONS		EXP-3102, AT-3103
(U) ACPM-8311 MARINE CORPS TACTICAL FUEL SYSTEMS		EXP-3102
(U) ACPM-8320 JOINT STRUCTURE AND JOINT AIR OPERATIONS		AT-3104
(U) ACPM-8321 JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEVELOPMENT		AT-3104
(U) ACPM-8322 JOINT AIR TASKING CYCLE PHASE 2: TARGET DEVELOPMENT		AT-3104
(U) ACPM-8323 JOINT AIR TASKING CYCLE PHASE 3: WEAPONEERING AND ALLOCATION		AT-3104
(U) ACPM-8324 JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PRODUCTION		AT-3104
(U) ACPM-8325 JOINT AIR TASKING CYCLE PHASE 5: FORCE EXECUTION		AT-3104
(U) ACPM-8326 JOINT AIR TASKING CYCLE PHASE 6: COMBAT ASSESSMENT		AT-3104
(U) ACPM-8340 INTEGRATING FIRES AND AIRSPACE WITHIN THE MAGTF		AT-3103
(U) ACPM-8350 PHASING CONTROL ASHORE		SEA-3101
(U) ACPM-8351 TACRON ORGANIZATIONS AND FUNCTIONS		SEA-3101

FLIGHT LEADERSHIP	(U) ACPM-8630 TACTICAL AIR COMMAND CENTER (TACC)	SECTION LEADER STAGE
	(U) ACPM-8660 JOINT OPS INTRO	
	(U) ACPM-8640 JOINT DATA NETWORK	DIVISION LEADER STAGE
	(U) ACPM-8641 MAGTF THEATER AND NATIONAL ISR EMPLOYMENT***	
	(U) ACPM-8620 ESG/CSG INTEGRATION	FLIGHT LEADER STAGE

* Completion of ACAD-2034 satisfies the requirement for completion of ACPM-8210

** Completion of ACAD-2007 satisfies the requirement for completion of ACPM-8240

*** Completion of ACAD-4002 satisfies the requirement for completion of ACPM-8641.

c. 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.

d. ACPM events do not have re-fly intervals.

2.21 T&R ATTAIN AND MAINTAIN TABLES

CH-46E ATTAIN // MAINTAIN CORE MISSION & CORE+ SKILLS - PILOT													
EVENT DESCRIPTION	TER EVENTS		BASIC POI ATTAIN			REFRESHER POI ATTAIN			MAINTAIN			CHAINING	PREREQUISITES
	EVENT	CODE	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY		
CORE SKILLS - 2000 PHASE													
SFAM/INST	SFAM/INST	2100		2100	*								1902,2000,2001
FAM	FAM/INST	2101	FAM	2101	180	FAM	2101	180	FAM			2100	2100
INST	FAM/INST	2102		2102	180		2102	180		2102	180	2100,2101	2100
SIM CALS	SCAL	2200		2200	*								
CALS	CAL	2201		2201	180							2200	2200
SEC CALS	CAL	2202		2202	180							2200,2201	2201
DIV CALS	CAL	2203		2203	180		2203	180		2203	180	2200,2201,2202	2202
SIM FORM	SFORM	2300		2300	*								
TACFORM	FORM	2301	FORM	2301	365	FORM	2301	365	FORM	2301	365	2300	2201,2300
SIM TERF	STERF	2302		2302	*								2002,2101,2102,2202
TERF MANEUVERS	TERF	2303		2303	180							2302	2302
TERF	TERF	2304	TERF	2304	180	TERF			TERF			2302,2303	2303
SEC TERF	TERF	2305		2305	180		2305	180		2305	180	2300,2301, 2302,2303,2304	2301, 2304
DAY AG	AG	2401	AG	2401	365	AG	2401	365	AG				2005,2021, 2024,2029,2101, 2301
NS AG	AG	2405		2405	365		2405	365		2405	365	2401	2401,2601
SIM D/N LOW/MED THREAT	STAC	2500		2500	*							2200,2300,2600~NS,2650~LLL	See TAC Stage.
DAY LOW/MED THREAT	TAC	2501	TAC	2501	180	TAC			TAC			2500,2200,2201,2202,2300,2301	2202,2500,2801, TERF Q
NS LOW/MED THREAT	TAC	2502		2502	180		2502	180		2502	180	2200,2201,2202,2300,2301,2500,2501, 2600,2601,2602,2603,2650~LLL, 2651~LLL,2652~LLL	2501,2405,2603
SIM NS FAM	SNS	2600		2600	*							2200	See NS HLL Stage.
HLL CALS	NS	2601		2601	180		2601	180				2200,2201,2600	2101,2201,2600
HLL FORM	NS	2602		2602	180							2200,2201,2600	2301,2601
HLL SEC CALS	NS	2603		2603	180		2603	180		2603	180	2200,2201,2202,2300,2301,2600,2601, 2602	2202,2602
HLL DIV CALS/FORM	NS	2604	NS HLL	2604	*	NS HLL			NS HLL			2200,2201,2202,2203,2300,2301,2600, 2601,2602,2603	2203,2603
HLL TERF	NS	2605		2605	180							2302,2303,2304,2305,2600	2305,2601
HLL SEC TERF	NS	2606		2606	180		2606	180		2606	180	2300,2301,2302,2303,2304,2305,2600, 2602,2605	2305,2602,2605

CH-46E ATTAIN / MAINTAIN CORE, MISSION, & CORE+ SKILLS - PILOT															
EVENT DESCRIPTION	TOP EVENTS		BASIC POI ATTAIN			REFRESHER POI ATTAIN			MAINTAIN			CHAINING	PREREQUISITES		
	EVENT	CODE	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY				
SIM LLL	SNS	2650	NS LLL	2650	*	NS LLL	2650	*	NS LLL			2200,2600	2038,2600		
LLL SINGLE SHIP CALS	NS	2651		2651	180		2651	180						2200,2201,2600,2601,2650	2606,2650
LLL SECTION CALS	NS	2652		2652	180		2652	180						2200,2201,2202,2600,2601,2602,2603,2650,2651	2651
LLL TERF	NS	2653		2653	180									2302,2303,2304,2305,2600,2601,2605,2650,2651	2305, 2652
LLL DIVISION CALS	NS	2654		2654	180		2654	180		2654	180			2200,2201,2202,2203,2600,2601,2602,2603,2604,2650,2651,2652	2653
LLL TERF/FORM /CALS	NS	2655		2655	180		2655	180		2655	180			2200,2201,2202,2300,2301,2302,2303,2304,2305,2600,2601,2602,2603,2605,2606,2650,2651,2652, 2653	2654
SIM EXTERNALS	SEXT	2700	EXT	2700	*	EXT			EXT			2200			
DAY EXTERNALS	EXT	2701		2701	365		2701	365						2200,2201,2700	2201,2700
SIM D/N TERF EXT	SEXT	2702		2702	*									2200,2700	2302,2600,2700
NS EXT	EXT	2703		2703	365		2703	365		2703	365			2200,2201,2600,2601,2650,2651~LLL,2700,2701,2702	2701,2606~NS,2655~LLL
SIM AIE	SAIE	2704	AIE	2704	*	AIE			AIE			2200	See AIE Stage		
DAY FASTROPE/ RAPPEL	AIE	2705		2705	365		2705	365		2705	365			2200,2201,2704	2201,2701,2704
NS FASTROPE/ RAPPEL	AIE	2706		2706	*									2200,2201,2600,2704,2705	2703,2705,2606~NS,2655~LLL
SIM GTR	SGTR	2800	GTR	2800	*	GTR			GTR			2300,2302	See GTR Stage		
NON-RADAR THREAT REACTION	GTR	2801		2801	365		2801	365		2801	365			2300,2301,2302,2303,2304,2401,2405~N	2301,2401,2405~N,2800,TERF Q,2305
SIM D/N UNAIDED CQ	SCQ	2900	CQ	2900	*	CQ			CQ				8200,8202		
DAY FCLP	CQ	2901		2901	365		2901	365						2900	2900
NS FCLP	CQ	2902		2902	365		2902	365						2900, 2901	2901,2606~NS,2655~LLL
DAY CQ	CQ	2903		2903	365		2903	365						2200,2201,2900,2901	2901
NS CQ	CQ	2904		2904	365		2904	365		2904	365			2200,2201,2600,2601~HLL,2650~LLL,2651~LLL,2900,2901,2902,2903	2606~NS,2655~LLL,2902,2903

CH-46E ATTAIN / MAINTAIN CORE, MISSION, & CORE+ SKILLS - PILOT																
EVENT DESCRIPTION	TCP EVENTS		BASIC POI ATTAIN			REFRESHER POI ATTAIN			MAINTAIN			CHATTING	PREREQUISITES			
	EVENT	CODE	STAGE	CODE	RE RLY	STAGE	CODE	RE RLY	STAGE	CODE	RE RLY					
MISSION SKILLS - 3000 PHASE																
SEA-BASED OPS	SEA	3101	SEA	3101	*	SEA	3101	*	SEA	3101	*		See Stage			
SHORE-BASED OPS	EXP	3102	EXP	3102	*	EXP	3102	*	EXP	3102	*		See Stage			
ASSAULT TRANSPORT	AT	3103	AT	3103	365	AT	3104	365	AT	3104	365	3103	See Stage			
NIGHT ASSAULT TRANSPORT	AT	3104		3104	365								3104	365	See Stage	
DAY RIE	RIE	3105	RIE	3105	365	RIE			RIE				See Stage			
NIGHT RIE	RIE	3106		3106	365		3106	365		3106	365	3105	See Stage			
TRAP	TRAP	3107	TRAP	3107	365	TRAP	3107	365	TRAP	3107	365		See Stage			
CASEVAC	AE	3108	AE	3108	365	AE	3108	365	AE	3108	365		See Stage			
CORE PLUS SKILLS - 4000 PHASE EVENTS																
SIM MAT	SMAT	4200	MAT	4200	*	MAT	4201	365	MAT	4203	365	2200	2200			
DAY MAT	MAT	4201		4201	365							4203	365	2200, 2201, 4200	2201	
DAY SEC MAT	MAT	4203		4203	365							4204	365	2200, 2201, 2202, 4200, 4201	2202, 4201	
NS MAT	MAT	4204		4204	365		4204	365		4204	365	2200, 2201, 2600~NS, 2601~NS, 2650~LLL, 2651~LLL, 4200, 4201	4201, 2606~NS, 2655~LLL			
UNAIDED CALS	CALS	4202	CAL	4202	365	CAL	4202	365	CAL	4202	365	2200, 2201	2101, 2201			
ARTIC WEATHER	SIM AWT	4208		4208	*										2200	
COLD WEATHER	AWT	4209		4209	*							4209	*		2200	2201
DESERT	SIM DES	4210		4210	*										2200	
DESERT	DES	4211		4211	*							4211	*		4210	2201
SIM CBRN	SCBRN	4205	CBRN	4205	*	CBRN	4207	365	CBRN	4207	365	2200	2200			
DAY CBRN	CBRN	4206		4206	365									2200, 2201, 4205	2201, 4205	
NS CBRN	CBRN	4207		4207	365							4207	365	2200, 2201, 2600~NS, 2601~NS, 2650~LLL, 2651~LLL, 4205, 4206	4206, 2606~NS, 2655~LLL	
TERF EXTERNALS	EXT	4301	EXT	4301	365	EXT	4301	365	EXT	4301	365	2304, 2701	2304, 2701, 2702			
GROUND THREAT RADAR	GTR	4401	GTR	4401	365	GTR	4401	365	GTR	4401	365	2300, 2301, 2302, 2303, 2304	See Stage			
SIM D/N HIGH THREAT	STAC	4500	TAC	4500	*	TAC	4502	365	TAC	4502	365	2200, 2300, 2302, 2500	See Stage			
DAY HIGH THREAT	TAC	4501		4501	365									2200, 2201, 2202, 2300, 2301, 2302, 2303, 2304, 2305, 2500, 2501, 4500	2401, 2501, 2801, 4401, 4500	
NS HIGH THREAT	TAC	4502		4502	365							4502	365	2200, 2201, 2202, 2300, 2301, 2302, 2303, 2304, 2305, 2500, 2501, 2502, 2600~NS, 2601~NS, 2602~NS, 2603~NS, 2605~NS, 2606~NS~NS, 2650~LLL, 2651~LLL, 2652~LLL, 2655~LLL, 4500, 4501	2502, 2405, 2606~NS, 2655~LLL, 4500, 4501	

CH-46E ATTAIN / MAINTAIN CORE MISSION & CORE+ SKILLS - PILOT													
EVENT DESCRIPTION	T&R EVENTS		BASIC POI ATTAIN			REFRESHER POI ATTAIN			MAINTAIN			CHAINING	PREREQUISITES
	EVENT	CODE	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY	STAGE	CODE	RE FLY		
SPIE	AIE	4701		4701	365		4701	365		4701	365	2200,2201,2700,2701	2039,2701,2703-NS
HELOCAST/ SOFTDUCK	AIE	4702	AIE	4702	365	AIE	4702	365	AIE	4702	365		2606-NS,2655-LLL
HOIST OPS	AIE	4703		4703	365		4703	365		4703	365	2200,2201,2700,2701	2701,2606-NS, 2655-LLL
DAY OR NS AERIAL DELIVERY	AIE	4704		4704	365		4704	365		4704	365		2606-NS,2655-LLL
SIM A-A DM	SDM	4800		4800	*							2300	2032,4005,4006,4007, 4008,2301,2305
RW DM	FWDM	4801	DM	4801	365	DM	4801	365	DM	4801	365	2300,2301,4800	2301,2305,TERF Q
FW DM	FWDM	4802		4802	365		4802	365		4802	365	2300,2301,4800	2301,2305,TERF Q
SIM ACM	SACM	4803		4803	*								DMQ
NIGHT UNAIDED FCLP	CQ	4901	CQ	4901	365	CQ			CQ			2900,2901	2901
UNAIDED CQ	CQ	4902		4902	365		4902	365		4902	365	2200,2201,2900,2901,2903,4202,4901	2903,4901
MISSION PLUS - 4000 PHASE EVENTS													
AERIAL DELIVERY	AD	4503	AD	4503	365	AD	4503	365	AD	4503	365		2101

2.22 T&R SYLLABUS MATRIX. The below matrix summarizes T&R syllabus event information.

CH-46E PILOT T&R MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
1000 PHASE - CORE SKILL INTRODUCTION																	
ACADEMIC STAGE (ACAD)																	
ACAD	0001	PFAM CLASS							*		1.0						0001
ACAD	0002	WELCOME ABOARD							*		1.0						0002
ACAD	0003	ODO CLASS							*		1.0						0003
ACAD	0004	SDO CLASS							*		1.0						0004
ACAD	0005	FRS COURSE RULES							*		1.0						0005
ACAD	0006	LOAD COMPUTATIONS							*		1.0						0006
ACAD	0007	CNCS / PFPs							*		1.0						0007
ACAD	0008	ECCS CLASS							*		1.0						0008
ACAD	0009	CBTs (All complete)							*		1.0						0009
ACAD	0011	COURSE RULES EXAM							*		1.0						0011
ACAD	0012	SOP EXAM							*		1.0						0012
ACAD	0021	NAVIGATION CLASS							*		1.0						0021
ACAD	0022	TERF							*		1.0						0022
ACAD	0023	MISSION PLANNING							*		1.0						0023
ACAD	0031	NIGHT SYSEMS CLASS							*		1.0						N/A
ACAD	0042	NS LAB							*		1.0						0042
TOTAL ACAD STAGE										16	16.0	0	0.0	0			
FAMILIARIZATION STAGE (FAM)																	
SFAM	1100	SIM-START		E	S		D		*				2.0				1100
SFAM	1101	SIM-PATTERN	R,MR	E	S		D		*				2.0			1100	1101
SFAM	1102	SIM-ENGINE MALFUNCTION		E	S		D		*				2.0			1101	1102
SFAM	1103	SIM-RUN LAND	R,MR	E	S		D		*				2.0			1102	1103
SFAM	1104	SIM-AUTOS	R,MR	E	S		D		*				2.0			1103	1104
SFAM	1105	SIM-ECCS		E	S		D		*				2.0			1104	1105
SFAM	1106	SIM-FAM REVIEW		E	S		D		*				2.0			1105	1106
SFAM	1107	SIM-ALL FAM	R,MR	E	S		D		*				2.0			1106	1107
SFAM	1118	SIM-FAM / EP REVIEW	R,MR	E	S		D		*				2.0			1107	1118
SFAM	1119	SIM-GOUND REVIEW		E	S		D		*				2.0			1118	1119
FAM	1108	GROUND PREFLIGHT	R,MR	E	A	1	D		*					0.0		1107	1108
FAM	1109	START		E	A	1	D		*					2.0		1108	1109
FAM	1110	PATTERN		E	A	1	D		*					2.0		1109	1110

CH-46E PILOT T&R MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
FAM	1111	REV FAM		E	A	1	D		*						2.0	1110	1111
FAM	1112	AFCS		E	A	1	D		*						2.0	1111	1112
FAM	1113	REVIEW FAM	R, MR	E	A	1	D		*						1.5	1112	1113
FAM	1114	REVIEW FAM		E	A	1	D		*						1.5	1113	1114
FAM	1115	REV FAM		E	A	1	D		*						1.5	1114	1115
FAM	1116	FAM PROG CHECK	R, MR	E	A	1	D		*						1.5	1115	1116
FAM	1117	NIGHT FAM	R, MR	E	A	1	N*		*						1.5	1116	1117
TOTAL FAM STAGE										0	0.0	10	20.0	10	15.5		
INSTRUMENT STAGE (INST)																	
SINST	1200	SIM-CNCS FAM	R, MR	E	S		D		*				2.0				1200
SINST	1201	SIM-BI/RI	R, MR	E	S		(N*)		*				2.0			1200	1201
SINST	1202	SIM-TACAN/GCA	R, MR	E	S		(N*)		*				2.0			1201	1202
INST	1203	TACAN/GCA	R, MR	E	A/S	1	(N*)		*						1.5	1202, 1112	1203
INST	1204	ENROUTE	R, MR	E	A/S	1	(N*)		*						1.5	1203	1204
INST	1205	INST EVAL	R, MR	E	A/S	1	(N*)		*						1.5	1204	1205
TOTAL INST STAGE										0	0.0	3	6.0	3	4.5		
NAVIGATION STAGE (NAV)																	
NAV	1301	DAY NAV - 1:250		E	A	1	D		*						1.5	0021,0023,1112	1301
NAV	1302	DAY NAV - 1:50		E	A	1	D		*						1.5	1301	1302
NAV	1303	UNAIDED NAV		E	A	1	N*		*						1.5	1117,1302	1303
TOTAL NAV STAGE										0	0.0	0	0.0	3	4.5		
CONFINED AREA LANDING STAGE (CAL)																	
SCAL	1400	CAL		E	S		D		*				2.0				1400
CAL	1401	DAY CAL	R	E	A	1	D		*						1.5	1116	1401
CAL	1402	DAY SEC CAL		E	A	2	D		*						1.5	1501,1401,1116	1402
TOTAL CAL STAGE										0	0.0	1	2.0	2	3.0		
FORMATION STAGE (FORM)																	
SFORM	1500	DAY/NS FORM		E	S		(NS)		*				2.0			1400	1500
FORM	1501	DAY FORM CRUISE	R	E	A	2	D		*						1.5	1401	1501
FORM	1502	DAY FORM PARADE		E	A	2	D		*						1.5	1501	1502
TOTAL FORM STAGE										0	0.0	1	2.0	2	3.0		
EXTERNAL STAGE (EXT)																	
SEXT	1600	EXT		E	S		D		*				2.0			1400	1600

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CH-46E PILOT TCR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REPLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
EXT	1601	EXT		E	A	1	D		*						1.5	1401	1601
TOTAL EXT STAGE										0	0.0	1	2.0	1	1.5		
TERRAIN FLIGHT STAGE (TERF)																	
TERF	1701	TERF	R,MR	E	A	1	D		*						1.5	0022,1401	1701
TOTAL TERE STAGE										0	0.0	0	0.0	1	1.5		
NIGHT SYSTEMS STAGE (NS)																	
SNS	1800	SIM-NS FAM		E	S		NS		*				2.0			0031,0042,1107	1800
NS	1801	NS FAM	R	E	A	1	NS		*						2.0	0031,0042,1203	1801
NS	1802	NS NAV		E	A	1	NS		*						1.5	1303,1801	1802
NS	1803	NS CAL		E	A	1	NS		*						1.5	1401,1802	1803
TOTAL NS STAGE										0	0.0	1	2.0	3	5.0		
REVIEW STAGE (REV)																	
SREV	1900	SIM-REV	R	E	S		D		*				2.0			ALL PREV STAGES COMP	1900
REV	1901	REV		E	A	1	D		*						1.5	1900	1901
TOTAL REV STAGE										0	0.0	1	2.0	1	1.5		
CORE SKILL INTRODUCTION CHECKRIDE (CSIX)																	
CSIX	1902	NATOPS	R,MR	E	A	1	D		*						1.5	1901	1902
TOTAL CSIX STAGE										0	0.0	0	0.0	1	1.5		
CORE SKILL INTRODUCTION PHASE TOTAL										16	16.0	18	36.0	27	41.5		
2000 PHASE - CORE SKILL BASIC																	
ACADEMIC STAGE (ACAD)																	
ACAD	2000	CH-46E HAVEQUICK/SINGARS	M							365							2000
ACAD	2001	CH-46E CNCS EMPLOYMENT							*						1.0		2001
ACAD	2002	TERRAIN FLIGHT							*						1.0		2002
ACAD	2003	RESERVED FOR FUTURE USE													1.0		-
ACAD	2004	NITE LAB NVG NVG ENV							*						1.0		2004
ACAD	2005	TACTICS IN THE NIGHT ENV							*						1.0		2005
ACAD	2006	CH-46E NVG HUD							*						1.0		2006
ACAD	2007	SIX FUNCTIONS OF MARINE AVLIATION							*						1.0		2007
ACAD	2008	FW THREAT TO MAGTF							*						1.0		2008
ACAD	2009	RW THREAT TO MAGTF							*						1.0		2009
ACAD	2010	SURFACE TO AIR THREAT							*						1.0		2010

CH-46E PILOT TLR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
		TO MAGTF															
ACAD	2011	NITE LAB NVG OPERATIONS							*		1.0						2011
ACAD	2012	NITE LAB NVG ROUTE CONSIDERATIONS							*		1.0						2012
ACAD	2013	BASIC RADAR PRICIPLES							*		1.0						2013
ACAD	2014	CH-46E GROUND THREAT REACTION							*		1.0						2014
ACAD	2015	RF SAMS	M						365		1.0						2015
ACAD	2016	IR SAM THREAT TO AS AIRCRAFT	M						365		1.0						2016
ACAD	2017	ADA THREAT TO AS AIRCRAFT	M						365		1.0						2017
ACAD	2018	ALE-47/AAR-47 V2	M						365		1.0						2018
ACAD	2019	APR-39 V1	M						365		1.0						2019
ACAD	2020	ALQ-157	M						365		1.0						2020
ACAD	2021	ROE PLANNING							*		1.0						2021
ACAD	2022	TACTICAL FLIGHT BRIEFING	M						365		1.0						2022
ACAD	2023	LARGE FLIGHT LEADERSHIP							*		1.0						2023
ACAD	2024	OBJECTIVE AREA PLANNING	M						365		1.0						2024
ACAD	2025	BATTLEFIELD ILLUMINATION & ITG CONSIDERATIONS							*		1.0						2025
ACAD	2026	ASSAULT SUPPORT ESCORT TACTICS							*		1.0						2026
ACAD	2027	CH-46E AN-AAQ-24 DIRCM							*								-
ACAD	2028	EXECUTION CHECKLIST							*		1.0						2028
ACAD	2029	MAGTF TARGETING AND FIRE SUPPORT PLANNING	M						365		1.0						2029
ACAD	2030	INTEL PREPERATION OF THE BATTLESPACE							*		1.0						2030
ACAD	2031	PROBLEM FRAMING							*		1.0						2031
ACAD	2032	EVASIVE MANEUVERS AND COUNTER-TACTICS	M						365		1.0						2032
ACAD	2033	RESERVED FOR FUTURE USE							*								-
ACAD	2034	AVIATION GROUND SUPPORT							*		1.0						2034
ACAD	2035	NITE LAB NVG HUMAN VISUAL SYSTEMS							*		1.0						2035
ACAD	2036	NITE LAB NVG MISPERCEPTIONS AND ILLUSIONS							*		1.0						2036
ACAD	2037	NITE LAB NVG ADJUSTMENT							*		1.0						2037
ACAD	2038	NITE LAB FLIR SENSOR							*		1.0						2038

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GH-46E PILOT TER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
		INTEGRATION															
ACAD	2039	AIE OPERATIONS							*		1.0						2039
ACAD	2040	RESERVED FOR FUTURE USE							*		1.0						
TOTAL ACAD STAGE										39	39.0						
FAMILIARIZATION / INSTRUMENT STAGE (FAM/INST)																	
SFAM/INST	2100	SFAM/INST			S/A	1	(N)		*				2.0			1902,2000,2001	2100
FAM/INST	2101	FAM	R		A	1	(N)		180						1.5	2100	2101
FAM/INST	2102	INST	R,M		A	1	(N)		180						1.5	2100	2102
TOTAL FAM/INST STAGE										0	0.0	1	2.0	2	3.0		
CONFINED AREA LANDING STAGE (CAL)																	
SCAL	2200	SIM CALS			S		(N)		*				2.0			None	2200
CAL	2201	CALS			A	1	D		180						1.5	2200	2201
CAL	2202	SEC CALS			A	2	D		180						1.5	2201	2202
CAL	2203	DIV CALS	R,M		A	3	D		180						1.5	2202	2203
TOTAL CAL STAGE										0	0.0	1	2.0	3	4.5		
FORMATION STAGE (FORM)																	
SFORM	2300	SIM FORM			S		D		*				2.0			None	2300
FORM	2301	TACFORM	R,M		A	2	(NS)		365						1.5	2201,2300	2301
TOTAL FORM STAGE										0	0.0	1	2.0	1	1.5		
TERRAIN FLIGHT STAGE (TERF)																	
STERF	2302	SIM TERF			S		D		*				2.0			2002,2101,2102,2202	2302
TERF	2303	TERF MANEUVERS			A	1	D		180						1.5	2302	2303
TERF	2304	TERF			A	1	D		180						1.5	2303	2304
TERF	2305	SEC TERF	R,M		A	2	D		180						1.5	2301, 2304	2305
TOTAL TERF STAGE										0	0.0	1	2.0	3	4.5		
AIR-TO-GROUND STAGE (AG)																	
AG	2401	DAY AG	R		A	1	D		365						1.5	2021,2024,2029,2101,2301	2401
AG	2405	NS AG	R,M		A	1	NS		365						1.5	2401,2601	2405
TOTAL AG STAGE										0	0.0	0	0.0	2	3.0		
TACTICS STAGE (TAC)																	
STAC	2500	SIM D/N LOW/MED THREAT			S		(NS)		*				2.0			See TAC Stage	2500

CH-46E BILFOT TER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLI	PREREQUISITE	EVENT CONV
TAC	2501	DAY LOW/MED THREAT			A	2	D		180						1.5	2202,2500,2801,TERF Q	2501
TAC	2502	NS LOW/MED THREAT	R,M		A	2	NS		180						1.5	2501,2405,2603	2502
TOTAL TAC STAGE										0	0.0	1	2.0	2	3.0		
NIGHT SYSTEMS HIGH LIGHT LEVEL STAGE (HLL)																	
NS HLL	2600	SIM NS FAM			S		NS		*				2.0			See NSHLL Stage Matrix	2600
NS HLL	2601	HLL CALS	R		A	1	NS		180						1.5	2101,2201,2600	2601
NS HLL	2602	HLL FORM			A	2	NS		180						1.5	2301,2601	2602
NS HLL	2603	HLL SEC CALS	R,M		A	2	NS		180						1.5	2202,2602	2603
NS HLL	2604	HLL DIV CALS/FORM			A	3	NS		*						1.5	2203,2603	2604
NS HLL	2605	HLL TERF			A	1	NS		180						1.5	2305,2601	2605
NS HLL	2606	HLL SEC TERF	R,M		A	2	NS		180						1.5	2305,2602,2605	2606
TOTAL NS HLL STAGE										0	0.0	1	2.0	6	9.0		
NIGHT SYSTEMS LOW LIGHT LEVEL STAGE (LLL)																	
NS LLL	2650	SIM LLL			S		NS		*				2.0			2600,2038	2650
NS LLL	2651	LLL SINGLE SHIP CALS	R		A	1	NS		180						1.5	2606,2650	2651
NS LLL	2652	LLL SECTION CALS	R		A	2	NS		180						1.5	2651	2652
NS LLL	2653	LLL TERF			A	1	NS		180						1.5	2652	-
NS LLL	2654	LLL DIVISION CALS	R,M		A	3	NS		180						1.5	2653	2653
NS LLL	2655	LLL TERF/FORM/CALS	R,M		A	2	NS		180						1.5	2654	2654
TOTAL LLL STAGE										0	0.0	1	2.0	5	7.5		
EXTERNAL STAGE (EXT)																	
SEXT	2700	SIM EXTERNALS			S		D		*				2.0			None	2700
EXT	2701	DAY EXTERNALS	R		A	1	D		365						1.5	2700,2201	2701
SEXT	2702	SIM D/N TERF EXT			S		(NS)		*				2.0			2302,2600,2700	2702
EXT	2703	NS EXT	R,M		A	1	NS		365						1.5	2701,2606~NS,2655~LL	2703
TOTAL EXT STAGE										0	0.0	2	4.0	2	3.0		
ALTERNATE INSERTION EXTRACTION STAGE (AIE)																	
AIE	2704	SIM AIE			S		NS		*				2.0			See AIE Stage	2704
AIE	2705	DAY FASTROPE/RAPPEL	R,M		A	1	D		365						1.5	2201,2701,2704	2705
AIE	2706	NS FASTROPE/RAPPEL			A	1	NS		*						1.5	2703,2705,2606~NS,2655~LLL	2706

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GH-46F PILOT TCR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLT'S	FLT	PREREQUISITE	EVENT CONV
TOTAL HIE STAGE										0	0.0	1	2	3	4.5		
GROUND THREAT REACTION STAGE (GTR)																	
SGTR	2800	SIM GTR			S		D		*				2.0			See GTR Stage	2800
GTR	2801	NON-RADAR THREAT REACTION	R,M		A	2	(NS)		365						1.5	2301,2401,2405~N, 2800,TERF Q,2305	2801
TOTAL GTR STAGE										0	0.0	1	2.0	1	1.5		
CARRIER QUALIFICATION STAGE (CQ)																	
SCQ	2900	SIM D/N UNAIDED CQ			S		(N)		*				2.0			8200,8202	2900
CQ	2901	DAY FCLP	R		A	1	D		365						1.5	2900	2901
CQ	2902	NS FCLP	R		A	1	NS		365						1.5	2901,2606~NS, 2655~LLL	2902
CQ	2903	DAY CQ	R		A	1	D		365						1.5	2901	2903
CQ	2904	NS CQ	R,M		A	1	NS		365						1.5	2902,2903,2606~NS, 2655~LLL	2904
TOTAL CQ STAGE										0	0.0	1	2.0	4	6.0		
CORE SKILL PHASE TOTAL										39	39.0	12	24.0	34	51.0		
3000 PHASE - MISSION SKILLS																	
ACADEMIC STAGE (ACAD)																	
ACAD	3000	TRAP TTPs							*		1.0						3000
ACAD	3001	MOUT							*		1.0						3001
ACAD	3002	CASEVAC							*		1.0						3002
ACAD	3003	NEO EXECUTION							*		1.0						3003
ACAD	3004	REC THREAT TO MAGTF							*		1.0						3004
ACAD	3005	RAPID RESPONSE PLANNING PROCESS	M						365		1.0						3005
ACAD	3006	AIR ASSAULT OPERATIONS							*		1.0						4017
TOTAL ACAD STAGE										7	7.0						
SEA BASED OPERATIONS STAGE (SEA)																	
SEA	3101	SEA-BASED OPERATIONS	R,M						*							See Stage Matrix	3101
TOTAL SEA STAGE										0	0.0	0	0.0	0	0.0		
EXPEDITIONARY SHORE BASED OPERATIONS STAGE (EXP)																	
EXP	3102	SHORE BASED OPERATIONS	R,M						*							See Stage Matrix	3102
TOTAL EXP STAGE										0	0.0	0	0.0	0	0.0		

CH-46E PILOT TER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF AGA D	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
ASSAULT TRANSPORT STAGE (AT)																	
AT	3103	DAY ASSAULT TRANSPORT			A	2	D		365						1.5	See Stage Matrix	3103
AT	3104	NS ASSAULT TRANSPORT	R,M		A	2	NS		365						1.5	See Stage Matrix	3104
TOTAL AT STAGE										0	0.0	0	0.0	2	3.0		
Rapid Insertion/Extraction (RIE)																	
RIE	3105	DAY RAID			A	3	D		365						1.5	See Event Matrix	4503
RIE	3106	NS RAID	R,M		A	3	(NS)		365						1.5	See Event Matrix	4504
TOTAL AD STAGE										0	0.0	0	0.0	2	3.0		
TACTICAL RECOVERY OF AIRCRAFT AND PERSONNEL STAGE (TRAP)																	
TRAP	3107	TRAP	R,M		A	2	(NS)		365						1.5	See Stage Matrix	3106
TOTAL TRAP STAGE										0	0.0	0	0.0	1	1.5		
AIR EVACUATION (AE)																	
AE	3108	CASEVAC	R,M		A	2	(NS)		365						1.5	See Stage Matrix	3107
TOTAL AE STAGE										0	0.0	0	0.0	1	1.5		
TOTAL MISSION PHASE										0	0.0	0	0.0	6	9.0		
4000 PHASE - CORE PLUS																	
ACADEMIC STAGE (ACAD)																	
ACAD	4002	MAGTF THEATER AND MAGTF ISR EMPLOYMENT							*		1.0						4002
ACAD	4003	RW OAS							*		1.0						4003
ACAD	4004	FW OAS CAPABILITIES							*		1.0						4004
ACAD	4005	CH-46E DEFENSIVE MEASURES							*		1.0						4005
ACAD	4006	CH-46E HELICOPTER EXCESS POWER/ENERGY MANEUV.							*		1.0						4006
ACAD	4007	ATTACK HELICOPTER THREAT TO AS AIRCRAFT							*		1.0						4007
ACAD	4008	FIXED WING THREAT TO AS AIRCRAFT							*		1.0						4008
ACAD	4009	RESERVED FOR FUTURE USE							*		1.0						-
ACAD	4010	RESERVED FOR FUTURE USE							*		1.0						-
ACAD	4011	AIR MISSION COMMANDER							*		1.0						4011
ACAD	4012	CLOSE AIR SUPPORT							*		1.0						4012
ACAD	4013	JOINT CAS AIRCRAFT CAPABILITIES							*		1.0						4013
ACAD	4014	LASER THREAT							*		1.0						4014

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GH-46E BILION TR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TENT	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FIT	PREREQUISITE	EVENT CONV
ACAD	4015	AEW							*		1.0						4015
ACAD	4016	ASSAULT SUPPORT KEY PLAYERS							*		1.0						4016
TOTAL ACAD STAGE										16	16.0	0	0.0	0	0.0		
MOUNTAIN AREA TRAINING (MAT)																	
SMAT	4200	SIM MAT			S		D		*				2.0			2200	4200
MAT	4201	DAY MAT	R		A	1	D		365						1.5	2201	4201
MAT	4203	DAY SEC MAT	R,M		A	2	D		365						1.5	2202, 4201	4203
MAT	4204	NS MAT	R,M		A	1	NS		365						1.5	4201, 2606~NS, 2655~LL L	4204
TOTAL MAT STAGE										0	0.0	1	2.0	3	4.5		
CONFINED AREA LANDING STAGE (CAL)																	
CAL	4202	UNAIDED CALS	R,M		A	1	N*		365						1.5	2101, 2201	4202
SCAL	4208	SIM HELO OPS IN ARTIC WEATHER			S	1	(N)		*				2.0			2200	4208
CAL	4209	HELO OPS COLD WEATHER	R		A	1	(N)		365						1.5	2201	4209
SCAL	4210	SIM HELO OPS DESERT			S	1	(N)		*				2.0			2200	4210
CAL	4211	HELO OPS DESERT	R		A	1	(N)		365						1.5	2201	4211
TOTAL CAL STAGE										0	0.0	2	4.0	3	4.5		
CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR STAGE (CBRN)																	
SCBRN	4205	SIM CBRN			S		(NS)		*				2.0			2200	4205
CBRN	4206	DAY CBRN			A	1	D		365						1.0	2201, 4205	4206
CBRN	4207	NS CBRN	R,M		A	1	NS		365						1.0	4206, 2606~NS, 2655~LL L	4207
TOTAL CBRN STAGE										0	0.0	1	2.0	2	2.0		
EXTERNAL STAGE (EXT)																	
EXT	4301	TERF EXTERNALS	R,M		A	1	D		365						1.5	2304, 2701, 2702	4301
TOTAL EXT STAGE										0	0.0	0	0.0	1	1.5		
GROUND THREAT REACTION STAGE (GTR)																	
GTR	4401	GROUND THREAT IN A RADAR ENV	R,M		A	2	(NS)		365						1.5	See Stage Matrix	4401
TOTAL GTR STAGE														1	1.5		

CH-46E PILOT TER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
TACTICS STAGE (TAC)																	
STAC	4500	SIM D/N HIGHT THREAT			S		(N)		*				2.0			See Stage Matrix	4500
TAC	4501	DAY HIGH THREAT			A	2	D		365						1.5	2401,2501,2801,4401,4500	4501
TAC	4502	NS HIGH THREAT	R, M		A	2	(NS)		365						1.5	2502,2405,4500,4501,2606~NS,2655~LLL	4502
TOTAL TAC STAGE										0	0.0	1	2.0	2	3.0		
ALTERNATE INSERTION EXTRACTION STAGE (AIE)																	
AIE	4701	SPIE	R, M		A	1	(NS)		365						1.0	2039,2701,2703~NS	4701
AIE	4702	HELOCAST/SOFTDUCK	R, M		A	1	(NS)		365						1.0	2606~NS,2655~LLL	4702
AIE	4703	HOIST OPS	R, M		A	1	(NS)		365						1.0	2701,2606~NS,2655~LL L	4703
AIE	4704	DAY OR NS AERIAL DELIVERY	R, M		A	1	(NS)		365						1.5	2606~NS,2655~LLL	2707
TOTAL HIE STAGE										0	0.0	0	0.0	4	4.5		
DEFENSIVE MEASURES STAGE (DM)																	
SDM	4800	SIM A-A DM			S		D		*				2.0			2032,4005,4006,4007,4008,2301,2305	4800
DM	4801	RW DM	R, M		A	2	D		365						1.5	2301,TERF Q,2305	4801
DM	4802	FW DM	R, M		A	2	D		365						1.5	2301,TERF Q,2305	4802
SDM	4803	SIM ACM			S		D		*				2.0			DMQ	4803
TOTAL DM STAGE										0	0.0	2	4.0	2	3.0		
CARRIER QUALIFICATION STAGE (CQ)																	
CQ	4901	NIGHT UNAIDED FCLP			A	1	N*		365						1.0	2901	4901
CQ	4902	UNAIDED CQ	R, M		A	1	N*		365						1.0	2903,4901	4902
TOTAL CQ STAGE										0	0.0	0	0.0	2	2.0		
AERIAL DELIVERY STAGE (AD)																	
AD	4503	AERIAL DELIVERY	R, M		A	2	(NS)		365					1	1.5	2101	3105
TOTAL AD STAGE										0	0.0	0	0.0	1	1.5		
TOTAL CORE PLUS PHASE										16	16.0	7	14.0	21	28.0		

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OH-46E PILOT TFR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLT	FLT	PREREQUISITE	EVENT CONV
5000 PHASE INSTRUCTOR TRAINING																	
ERS INSTRUCTOR TRAINING																	
ACADEMICS STAGE (ACAD)																	
ACAD	5000	INSTRUCTIONAL TECHNIQUES							*		1.0						5000
TOTAL ACAD STAGE										1	1.0	0	0.0	0	0.0		
FAMILIARIZATION STAGE (FAM)																	
FAM	5101	DAY INSTR TECH		E	A	1	D		*						1.5	0005-0012	5101
FAM	5102	DAY INSTR TECH		E	A/S	1	D		*						1.5	5101	5102
FAM	5103	NIGHT UNAIDED INSTR TECH		E	A/S	1	N*		*						1.5	5102	5103
TOTAL FAM STAGE										0	0.0	0	0.0	3	4.5		
INSTRUMENT STAGE (INST)																	
INST	5104	INST INSTR TECH		E	A/S	1	D		*						1.5		5104
INST	5105	INST INSTR TECH		E	A/S	1	D		*						1.5	5104	5105
TOTAL INST STAGE										0	0.0	0	0.0	2	3.0		
NAVIGATION STAGE (NAV)																	
NAV	5106	NAV INSTR TECH		E	A	1	D		*						1.5	0021	5106
TOTAL NAV STAGE										0	0.0	0	0.0	1	1.5		
EXTERNAL STAGE (EXT)																	
EXT	5107	EXT INSTR TECH		E	A	1	D		*						1.5		5107
TOTAL EXT STAGE										0	0.0	0	0.0	1	1.5		
CONFINED AREA LANDING STAGE (CAL)																	
CAL	5108	CAL/TERF INSTR TECH		E	A/S	1	D		*						1.5	0022	5108
TOTAL CAL STAGE										0	0.0	0	0.0	1	1.5		
FAMILIARIZATION STAGE (FAM)																	
FAM	5109	FAM INSTR TECH		E	A/S	1	D		*						1.5	0008	5109
TOTAL FAM STAGE										0	0.0	0	0.0	1	1.5		
FORMATION STAGE (FORM)																	
FORM	5110	FORM INSTR TECH		E	A	2	D		*						1.5		5110
TOTAL FORM STAGE										0	0.0	0	0.0	1	1.5		
INSTRUCTOR UNDER TRAINING STAGE (IUT)																	
IUT	5111	STAN CHECK		E	A	1	D		*						3.0		5111
TOTAL IUT STAGE										0	0.0	0	0.0	1	3.0		

CH-46E PILOT IFR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
NIGHT SYSTEMS STAGE (NS)																	
NS	5112	HLL NS INSTR TECH		E	A	1	NS		*						1.5	0031,0042	5112
TOTAL NS STAGE										0	0.0	0	0.0	1	1.5		
TOTAL FRS INSTRUCTOR PHASE										1	1.0	0	0.0	12	19.5		
5000 PHASE - CONTRACT INSTRUCTOR POI																	
SIMULATOR FAMILIARIZATION STAGE (SFAM)																	
SFAM	5200	DAY FAM INSTR TECH		E	S		D		*				2.0				5200
SFAM	5201	DAY FAM INSTR TECH		E	S		D		*				2.0			5200	5201
SFAM	5202	DAY FAM INSTR TECH		E	S		D		*				2.0			5201	5202
SFAM	5203	DAY FAM INSTR TECH		E	S		D		*				2.0			5202	5203
SFAM	5204	DAY FAM INSTR TECH		E	S		D		*				2.0			5203	5204
SFAM	5205	DAY FAM INSTR TECH		E	S		D		*				2.0			5204	5205
SFAM	5206	DAY FAM INSTR TECH		E	S		D		*				2.0			5205	5206
SFAM	5207	DAY FAM INSTR TECH		E	S		D		*				2.0			5206	5207
SFAM	5208	INST INSTR TECH		E	S		D		*				2.0			5207	5208
SFAM	5209	INST INSTR TECH		E	S		D		*				2.0			5208	5209
TOTAL SFAM STAGE										0	0.0	10	20.0				
SIMULATOR INSTRUMENT STAGE (SINST)																	
SINST	5210	BASIC INST PROCEDURES		E	S		D		*				2.0			5209	5210
SINST	5211	BASIC INST MANEUVERS		E	S		D		*				2.0			5210	5211
SINST	5212	BASIC INST MANEUVERS		E	S		D		*				2.0			5211	5212
TOTAL SINST STAGE										0	0.0	3	6.0	0	0.0		
SIMULATOR CONFINED AREA LANDING STAGE (SCAL)																	
SCAL	5213	CAL INSTR TECH		E	S		D		*				2.0			5212	5213
TOTAL SCAL STAGE										0	0.0	1	2.0	0	0.0		
SIMULATOR FORMATION STAGE (SFORM)																	
SFORM	5214	FORM INSTR TECH		E	S		D		*				2.0			5213	5214
TOTAL SFORM STAGE										0	0.0	1	2.0	0	0.0		
SIMULATOR EXTERNAL STAGE (SEXT)																	
SEXT	5215	EXT INSTR TECH		E	S		D		*				2.0			5214	5215
TOTAL SEXT STAGE										0	0.0	1	2.0	0	0.0		
SIMULATOR NIGHT SYSTEMS STAGE (SNS)																	
SNS	5216	NS PROCEDURES		E	S		NS		*				2.0			5215	5216

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GH-46E PILOT TGR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
TOTAL SNS STAGE										0	0.0	1	2.0	0	0.0		
SIMULATOR REVIEW STAGE (SREV)																	
SREV	5217	REV FAM/INST		E	S		D		*							5216	5217
TOTAL CONTRACT INSTRUCTOR PHASE										0	0.0	18	36.0	0	0.0		
5000 PHASE - BASIC INSTRUCTOR PILOT																	
BASIC INSTRUCTOR PILOT STAGE (BIP)																	
SBIP	5300	SIM INTRO TO INSTRUCTION TECHNIQUES		E	S/A	1	D		*				2.0			See Stage Matrix	5300
BIP	5301	INTRO TO FORM/TACFORM SS/SEC CALS INSTRUCTOR TECHNIQUES		E	A	2	D		*						1.5	5300	5301
BIP	5302	INTRO TO EXT/HIE/FCLPS		E	A	1	D		*						1.5	5300	5302
BIP	5303	DAY FAM/INST INSTRUCTOR TECHNIQUES		E	A	1	D		*						1.5	5300	5303
BIP	5304	BIP CHECK	R	E	A	2	D		*						1.5	5300,5301,5302,5303	5304
TOTAL BIP STAGE										0	0.0	1	2.0	4	6.0		
TOTAL BIP PHASE										0	0.0	1	2.0	4	6.0		
5000 PHASE - ADVANCED INSTRUCTOR SYLLABI																	
NIGHT SYSTEMS SAR INSTRUCTOR STAGE (NSSI)																	
NSSI	5501	NS SS WORK		E	A	1	NS		*						1.5	See MAWTS-1 CC	5501
NSSI	5502	LLL CALS/NAV		E	A	1	NS		*						1.5	See MAWTS-1 CC	5502
NSSI	5503	LLL CALS/NAV INSTR TECH	R	E	A	1	NS		*						1.5	See MAWTS-1 CC	5503
TOTAL NSSI STAGE										0	0.0	0	0.0	3	4.5		
NIGHT SYSTEMS FAM INSTRUCTOR STAGE (NSFI)																	
NSFI	5601	HLL SS WORK		E	A	1	NS		*						1.5	See MAWTS-1 CC	5601
NSFI	5602	HLL CAL/NAV		E	A	1	NS		*						1.5	See MAWTS-1 CC	5602
NSFI	5603	HLL INSTR TECH	R	E	A	1	NS		*						1.5	See MAWTS-1 CC	5603
TOTAL NSFI STAGE										0	0.0	0	0.0	3	4.5		
TERRAIN FLIGHT INSTRUCTOR (TERFI)																	
TERFI	5701	DAY TERF MAN INSTR TECH		E	A	1	D		*						1.5	See MAWTS-1 CC	5701
TERFI	5702	DAY TERF NAV INSTR TECH		E	A	2	D		*						1.5	See MAWTS-1 CC	5702
TERFI	5703	TERFI CHECK	R	E	A	2	D		*						1.5	See MAWTS-1 CC	5703
TOTAL TERFI STAGE										0	0.0	0	0.0	3	4.5		

CH-46E PILOT IER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
DEFENSIVE MEASURES INSTRUCTOR STAGE (DMI)																	
DMI	5801	RW/FW DM INSTR TECH		E	A	2	D		*						1.5	See MAWTS-1 CC	5801
DMI	5802	RW/FW DMI CHECK	R	E	A	2	D		*						1.5	See MAWTS-1 CC	5802
TOTAL DMI STAGE										0	0.0	0	0.0	2	3.0		
NIGHT SYSTEMS INSTRUCTOR STAGE (NSI)																	
NSI	5901	NS INSTR TECH		E	A	1	NS		*						1.5	See MAWTS-1 CC	5901
NSI	5902	NS LOW WORK INSTR TECH		E	A	1	NS		*						1.5	See MAWTS-1 CC	5902
NSI	5903	NS FORM/NAV/CAL INSTR TECH		E	A	2	NS		*						1.5	See MAWTS-1 CC	5903
NSI	5904	NS SEC TERF INSTR TECH		E	A	2	NS		*						1.5	See MAWTS-1 CC	5904
NSI	5905	LLL NSI CHECK		E	A	1	NS		*						1.5	See MAWTS-1 CC	5905
NSI	5906	LLL SEC NSI CHECK	R	E	A	2	NS		*						1.5	See MAWTS-1 CC	5906
TOTAL NSI STAGE										0	0.0	0	0.0	6	9.0		
TOTAL ADVANCED INSTRUCTOR PHASE										0	0.0	0	0.0				
6000 PHASE - REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS																	
NATOPS SYLLABUS STAGE (NTPS)																	
NTPS	6001	NATOPS OPEN BOOK EXAM	R	E					365		2.0					QUALIFIED H2P	6001
NTPS	6002	NATOPS CLOSED BOOK EXAM	R	E					365		1.0					6001	6002
NTPS	6003	NATOPS ORAL EXAM	R	E					365		2.0					6001,6002	6003
NTPS	6101	NATOPS CHECK	R	E	A/S	1	(N)		365						1.5	6001,6002,6003	6101
TOTAL NTPS STAGE										3	5.0	0	0.0	1	1.5		
INSTRUMENT SYLLABUS STAGE (INST)																	
INST	6004	INSTRUMENT GROUND SCHOOL (IGS)	R	E					365		8.0					Per OPNAVINST 3710.7	6004
INST	6005	INSTRUMENT WRITTEN EXAM	R	E					365		2.0					Per OPNAVINST 3710.7	6005
INST	6006	ORAL INSTRUMENT EXAMINATION	R	E					365		2.0					Per OPNAVINST 3710.7	6006
INST	6102	INST CHECK	R	E	S/A	1	(N)		365				1.5			6004,6005,6006	6102
TOTAL INST STAGE										3	12.0	1	1.5	0	0.0		
CREW RESOURCE MANAGEMENT STAGE (CRM)																	
CRM	6007	CRM COURSE	R	E					365		2.0						6007
CRM	6103	SIM/AC CRM CHECK	R	E	A/S	1	(N)		365						1.5	6007	6103
TOTAL CRM STAGE										1	2.0	0	0.0	1	1.5		

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GH-46E PILOT DTR MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SLM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
FUNCTIONAL CHECK FLIGHT STAGE (FCF)																	
SFCF	6130	INTRO TO FCF PROCEDURES		E	S/A		D		*				2.0				6130
FCF	6131	ECCS SETUP AIMS		E	A	1	D		*						1.5	6130	6131
FCF	6132	ENHANCED AIMS		E	A	1	D		*						1.5	6130	-
FCF	6133	FCF TRACK AND BALANCE AIMS		E	A	1	D		*						1.5	6130	6133
FCF	6135	FCF HOVER CHECKS & AFCS		E	A	1	D		*						1.5	6130	6135
FCF	6136	FCF FULL CARD INTRO/REVIEW	R	E	A	1	D		*						1.5	6130, 6131, 6132, 6133, 6134, 6135	6136
FCF	6137	FCF FULL CARD	R	E	A	1	D		180						1.5	6136	6137
TOTAL FCF STAGE										0	0.0	1	2.0	6	9.0		
8000 PHASE - COMBAT / FLIGHT LEADERSHIP																	
HELICOPTER AIRCRAFT COMMANDER STAGE (HAC)																	
HAC	6201	DAY HAC REVIEW		E	A	1	D		*						1.5	NSQ, PER NATOPS & SDND SOPs	6201
HAC	6202	NIGHT HAC REVIEW		E	A	1	N		*						1.5	NSQ, PER NATOPS & SDND SOPs	6202
HAC	6203	DAY HAC CHECK		E	A	1	D		*						1.5	6201, 6202	6203
HAC	6204	NIGHT HAC CHECK		E	A	1	N		*						1.5	6201, 6202	6204
TOTAL HAC STAGE										0	0.0	0	0.0	4	6.0		
SECTION LEADER STAGE (SL)																	
SL	6301	SEC FORM/TAC FORM		E	A	2	D		*						1.0	HAC, 2301	6301
SL	6302	SEC TERF/NAV		E	A	2	D		*						1.0	HAC, 2304	6302
SL	6303	SEC NVG CALS		E	A	2	NS		*						1.0	HAC, 2606, 2655	6303
SL	6304	SEC TERF/NAV		E	A	2	NS		*						1.0	HAC, 2606, 2655	6304
SL	6305	SEC DAY OR NS AG		E	A	2	(N)		*						1.0	HAC, 2401, 2405	6305
SL	6306	DAY OR NS SEC LDR TRNG USING SCENARIO		E	A	2	(N)		*						1.5	2501, 2502, 6301, 6302, 6303, 6304, 6305,	6306
SL	6307	DAY OR NS SEC LDR CHECK USING SCENARIO	R	E	A	2	(N)		*						1.5	6306, SL ACAD COMP	6307
TOTAL SL STAGE										0	0.0	0	0.0	7	8.0		

CH-46E PILOT TER MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REFLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
DIVISION LEADER STAGE (DL)																	
DL	6401	DIV CALS/SEC TERF		E	A	3	D		*						1.5	SL, 2203, 2305	6401
DL	6402	NS DIV CALS/SEC TERF		E	A	3	NS		*						1.5	SL, 2606, 2655	6402
DL	6403	DAY OR NS DIV LDR TRNG USING SCENARIO		E	A	3	(N)		*						1.5	6401, 6402	6403
DL	6404	DAY OR NS DIV LDR CHECK USING SCENARIO	R	E	A	3	(N)		*						1.5	6403, DL ACAD COMP	6404
TOTAL DL STAGE										0	0.0	0	0.0	4	6.0		
FLIGHT LEADER STAGE (FL)																	
FL	6501	FL CHECK USING SCENARIO	R	E	A	5	(N)		*						1.5	DL, FL ACAD COMP	6501
TOTAL FL STAGE										0	0.0	0	0.0	1	1.5		
AIR MISSION COMMANDER STAGE (AMC)																	
AMC	6601	AMC CHECK USING SCENARIO	R	E	A		(N)		*						1.5	AMC ACAD COMP	6601
TOTAL AMC STAGE										0	0.0	0	0.0	1	1.5		
8000 PHASE - AVIATION CAREER PROGRESSION MODEL (ACPM)																	
AVIATION CAREER PROGRESSION MODEL STAGE (ACPM)																	
ACPM	8200	MACCS AGENCIES, FUNCTIONS AND CONTROL OF AIRCRAFT AND MISSILES							*		.5						8200
ACPM	8201	MWCS BRIEF							*		.5						8201
ACPM	8202	ACA AND AIRSPACE							*		.8						8202
ACPM	8210	AVIATION GROUND SUPPORT							*		.7						8210
ACPM	8230	ACE BATTLESTAFF							*		TBD						8230
ACPM	8231	BATTLE COMMAND DISPLAY							*		TBD						8231
ACPM	8240	SIX FUNCTIONS OF MARINE AVIATION							*		1.7						8240
ACPM	8241	JTAR/ASR INTRODUCTION AND PRACTICAL APPLICATION CLASS							*		1.3						8241
ACPM	8242	SITE COMMAND PRIMER							*		TBD						8242
ACPM	8250	THEATER AIR GROUND SYSTEM (TAGS)							*		.9						8250
ACPM	8300	AIR DEFENSE							*		.9						8300
ACPM	8310	FORWARD ARMING AND REFUELING POINT (FARP) OPERATIONS							*		.8						8310
ACPM	8311	MARINE CORPS TACTICAL							*		.9						8311

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GH-AGE PILOT T&R MATRIX																	
STAGE	TRNG CODE	DESCRIPTION	POI	E	DEVIC	# OF A/C	CON	TEN+	REPLY	# OF ACAD	ACAD	# OF SIM	SIM	# OF FLTS	FLT	PREREQUISITE	EVENT CONV
		FUEL SYSTEMS															
ACPM	8320	ACE BATTLE STAFF							*		1.0						8320
ACPM	8321	JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEVELOPMENT							*		.4						8321
ACPM	8322	JOINT AIR TASKING CYCLE PHASE 2: TARGET DEVELOPMENT							*		.4						8322
ACPM	8323	JOINT AIR TASKING CYCLE PHASE 3: WEAPONING AND ALLOCATION							*		.4						8323
ACPM	8324	JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PRODUCTION							*		.4						8324
ACPM	8325	JOINT AIR TASKING CYCLE PHASE 5: FORCE EXECUTION							*		.4						8325
ACPM	8326	JOINT AIR TASKING CYCLE PHASE 6: COMBAT ASSESMENT							*		.4						8326
ACPM	8340	INTEGRATING FIRES AND AIRSPACE WITHIN THE MAGTF							*		.5						8340
ACPM	8350	ESTABLISHING CONTROL ASHORE							*		.9						8350
ACPM	8351	TACRON ORGANIZATIONS AND FUNCTIONS							*		TBD						8351
ACPM	8630	TACTICAL AIR COMMAND CENTER (TACC)							*		1.0						8630
ACPM	8660	JOINT OPS INTRO							*		.5						8660
ACPM	8640	JOINT DATA NETWORK							*		.9						8640
ACPM	8641	MAGTF THEATER AND NATIONAL ISR EMPOLYMENT							*		1.3						8641
ACPM	8620	ESG/CSG INTEGRATION							*		TBD						8620
TOTAL ACPM STAGE										28	17.5	0	0.0	0	0.0		
TOTAL ACPM 8000 PHASE										28	17.5	0	0.0	0	0.0		

2.23 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS.

CH-46E CHAINING 5000 & 6000 PHASE EVENTS - PILOT		
STAGE	TRNG CODE	CHAINING
FAM	5101	2100, 2101
FAM	5102	2100, 2101
FAM	5103	2100, 2101
INST	5104	2100, 2102
INST	5105	2100, 2102
NAV	5106	2200, 2201
EXT	5107	2200, 2201, 2700, 2701
CAL	5108	2200, 2201, 2300, 2301
FAM	5109	2100, 2101
FORM	5110	2300, 2301
IUT	5111	2100, 2101
NS	5112	2600, 2601
SBIP	5300	2100, 2101
BIP	5301	2100, 2102, 2200, 2201, 2202, 2301
BIP	5302	2100, 2101, 2200, 2201
BIP	5303	2100, 2101, 2200, 2201
BIP	5304	2100, 2101, 2200, 2201, 2202, 2301
NSSI	5501	2100, 2101, 2200, 2201
NSSI	5502	2101, 2102, 2200, 2201, 2601, 2602, 2651, 2652
NSSI	5503	2101, 2102, 2200, 2201, 2600, 2601, 2650, 2651
NSFI	5601	2100, 2101
NSFI	5602	2100, 2101, 2200, 2201, 2600, 2601
NSFI	5603	2100, 2101, 2200, 2201, 2600, 2601
TERFI	5701	2300, 2301, 2302, 2303, 2304, 2700, 4301
TERFI	5702	2300, 2301, 2302, 2303, 2304, 2305
TERFI	5703	2300, 2301, 2302, 2303, 2304, 2305
DMI	5801	2300, 2301, 2302, 2303
DMI	5801	2300, 2301, 2302, 2303
NSI	5901	2100, 2101, 2200, 2201, 2600, 2601, 2900, 2901, 2902, 2650~LLL, 2651~LLL
NSI	5902	2100, 2101, 2200, 2201, 2600, 2601, 2700, 2701, 2702, 2703, 2650~LLL, 2651~LLL
NSI	5903	2100, 2101, 2200, 2201, 2202, 2600, 2601, 2602, 2603, 2650~LLL, 2651~LLL, 2652~LLL, 2653, 2655~LLL
NSI	5904	2100, 2101, 2200, 2201, 2202, 2302, 2303, 2304, 2305, 2600, 2601, 2602, 2603, 2605, 2606, 2650~LLL, 2651~LLL, 2652~LLL, 2653, 2655~LLL
NSI	5905	2100, 2101, 2200, 2201, 2700, 2701, 2702, 2703, 2600, 2601, 2900, 2901, 2902, 2903, 2650, 2651
NSI	5906	2100, 2101, 2200, 2201, 2202, 2300, 2301, 2302, 2303, 2304, 2305, 2600, 2601, 2602, 2603, 2605, 2606, 2650, 2651, 2652, 2653, 2654, 2655
NTPS	6101	2100
INST	6102	2100
FCF	6137	6136

2.24 AVIATION TRAINING FORMS (ATFS). Contact the MAWTS-1 CH-46E shop to receive CH-46E Pilot/Crewchief/AGO T&R syllabus ATFS.

2.25 . SIMULATOR MISSION ESSENTIAL SUBSYSTEMS MATRIX (MESM)

CH-46E SIMULATOR MISSION ESSENTIAL SUBSYSTEM MATRIX (MESM)		
Failed Sub-System	NMC for:	PMC for:
AFCS Panel/Functions	Any event.	
Any Flight Controls	Any event.	
Aural	Any event involving introduced/evaluated emergencies.	Any event with reviewed emergencies.
Basic Moving Models	Any SFORM, SEXT, SCQ except SINST.	
Basic RI Controls/Displays	Any SINST.	
Caution System	Any event involving introduced/evaluated emergencies.	Any event with reviewed emergencies.
Cockpit Lighting	Any 1000-2000 Phase event designated as N or NS.	Any non-1000 Phase N or NS event.
COMM/ICS	Any SFORM, networked event.	Any 1000 Phase SFAM event.
Copilot Basic Flight Instruments	Any event requiring the PUI in the left seat.	Any event.
Debrief Station		Any event.
Electronic Warfare Suite	Any STAC, SEW, SDM.	
Engine Controls	Any events involving engine start/shutdown or related EP's.	Any 1000-2000 Phase SFAM event.
Engine Instruments	Any events involving engine start/shutdown or related EP's.	Any 1000-2000 Phase SFAM event.
External Load Controls/Displays	Any EXT.	
Fuel Control/Displays	Any events involving fueling procedures or related EPs.	

IOS	Any event.	
Leadership/Demo, Record Playback		Any event.
Motion	Any 1000-2000 Phase SFAM involving flight.	Any 1000-2000 Phase SCAL, SFORM, SEXT.
Network Players	Any event designated TEN+ and any event scheduled as a section.	
NVG Visual	Any event designated N or NS.	
NVG HUD	Any event designated N or NS.	
Other Designated by COR	As designated.	As designated.
Overall Device	All events.	
Pilot Basic Flight Instruments	Any event requiring the PUI in the right seat.	Any event.
Radar Altimeter	Any 1000-2000 Phase SCAL, STERF, SINST, SNS.	Any SFAM.
Tactical Environment	Any STAC and any event designated TEN+.	
Utility Hydraulics Controls/Displays	Any events involving hydraulics procedures or related EP's.	
Visual	Any event other than SFAM SINST.	Any event.
VOR/TACAN	Any SINST.	Any event.

NOTES:

1. Loss of any two of the systems listed in the first column make the trainer PMC for any event.

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2.25.1 Devices that were not designated to provide the subsystems listed are obviously exempt from that portion of the matrix.

2.25.2 Squadrons reserve the right to fly any event in any trainer regardless of NMC/PMC status. This policy is intended to provide squadrons maximum flexibility, not to waive penalties or consideration required by the contract due to a failed subsystem.