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From: Commandant of the Marine Corps
To: Distribution List

Subj: UC-35C/C TRAINING AND READINESS MANUAL

Ref: (a) NAVMC 3500.14D

Encl: (1) UC-35C/D T&R Manual

1. Purpose. In accordance with reference (a), enclosure (1) contains revised standards and regulations regarding the training of UC-35C/D aircrew.

2. Cancellation. NAVMC 3500.92

3. Scope. Highlights of major Training and Readiness (T&R) planning considerations included in this UC-35C/D T&R Manual are as follows:

a. Reformatted all chapters to comply with reference (a).

b. Incorporated the Core Model Training Standard table.

c. All readiness reporting matrices have been adjusted to reflect one or two plane Detachments.

d. Adjusted the Core Model Minimum Requirement table to reflect current requirements.

4. Information. Recommended changes to this Manual should be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General (CG), Training and Education Command (TECOM), Marine Air Ground Task Force Training and Education Standards Division (MTESD) (C 466), Aviation Standards Branch using standard Naval correspondence or the Automated Message Handling System plain language address: CG TECOM MTESD.

5. Command. This Manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.

J. W. LUKEMAN
By direction

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CHAPTER 1

UC-35C/D TRAINING AND READINESS UNIT REQUIREMENTS

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CHAPTER 1

UC-35C/D

1.0 MARINE OPERATIONAL SUPPORT AIRCRAFT (OSA) SQUADRONS AND DETACHMENTS (VMR-1 and VMR Det. UC-35C/D) UNIT TRAINING AND READINESS REQUIREMENTS. The goal of Marine Aviation is to attain and maintain combat readiness to support Expeditionary Maneuver Warfare while conserving resources. The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned METs. These standards describe and define unit capabilities and requirements necessary to maintain proficiency in mission skills and combat leadership. Training events are based on specific requirements and performance standards to ensure a common base of training and depth of combat capability.

1.1 OSA/UC-35C/D MISSION. Provide time-sensitive air transport of high priority passengers and cargo to, within, and between theaters of war.

1.2 TABLE OF ORGANIZATION (T/O). As of this publication date, UC-35 VMR-1 and VMR Dets for both the Active and Reserve Forces are authorized:

Table of Organization Active Forces		
VMR-1 MCAS Cherry Point	VMR Det MCAS Miramar	VMR Det MCAS Futenma
T/O # M02220	T/O # M02209	T/O # M02204
2 UC-35D	2 UC-35D	3 UC-35D
Pilots	Pilots	Pilots
6	6	6
Transport Aircrewman	Transport Aircrewman	Transport Aircrewman
2	2	2

Table of Organization Reserve Forces	
VMR JRB Belle Chase	VMR NAF Andrews
T/O M03017	T/O M04801
2 UC-35C	3 UC-35D
Pilots	Pilots
21	21
Transport Aircrewman	Transport Aircrewman
5	5

Table of Organization (Deployed Detachment)	
2 UC-35C/D	1 UC-35C/D
Pilots	Pilots
10	5
Transport Aircrewman	Transport Aircrewman
3*	2*
*The Transport Aircrewman is not required on all Mission Flights	

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

VMR UC-35C/D		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	**SKILL ABBREVIATION**	**DESCRIPTION**
MCT 1.3.4.1.2	**OSA**	Conduct Operational Support Airlift
MCT 4.3.8	**ALS**	Conduct Air Logistics Support
CORE PLUS		
MCT 1.3.4	**AS**	Conduct Assault Support Operations
MCT 1.3.3.3.2	**EXP**	Conduct Aviation Operations From Expeditionary Shore-Based Sites

1.4 MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION. As Aviation Ground units provide universal impact across all six functions of Marine Aviation, this table is optional for the Aviation Ground community.

VMR UC-35C/D							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
MET	**SKILL ABBREVIATION**	**SIX FUNCTIONS OF MARINE AVIATION**					
		OAS	**ASPT**	**AAW**	**EW**	**CoA&M**	**AerRec**
MCT 1.3.4.1.2	**OSA**		**X**				
MCT 4.3.8	**ALS**		**X**				
CORE PLUS							
MCT 1.3.4	**AS**		**X**				
MCT 1.3.3.3.2	**EXP**		**X**				

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

VMR UC-35C/D													
Mission Essential Task To Core/Mission/Core Plus Skill Matrix													
MISSION ESSENTIAL TASK (MET)		**CORE SKILLS 2000 PHASE**						**MISSION SKILLS 3000 PHASE**		**CORE PLUS 4000 PHASE**			
										SKILL		**MISSION**	
MET	**SKILL ABBREVIATION**	**ACAD**	**FAM**	**INST**	**NFAM**	**CP**	**REV**	**OSA**	**ALS**	**ACAD**	**INT**	**AS**	**EXP**
MCT 1.3.4.1.2	**OSA**	X	X	X	X	X	X	X		X			
MCT 4.3.8	**ALS**	X	X	X	X	X	X		X	X			
CORE PLUS													
MCT 1.3.4	**AS**	X	X	X	X	X	X			X	X	X	
MCT 1.3.3.3.2	**EXP**	X	X	X	X					X			X

1.6 MISSION ESSENTIAL TASK (MET) OUTPUT STANDARDS. The following MET output standard is the required level of performance for VMR (UC-35C/D) and must be capable of sustaining during contingency operations by MET to be considered MET-ready.

1.6.1 Output standards will be demonstrated through the incorporation of unit training Events.

1.6.2 A core capable VMR (UC-35C/D) squadron is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are based on 1.7 hour average sortie duration. It assumes >70% FMC aircraft and >90% T/O aircrew on hand. If unit FMC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage."

VMR UC-35C/D						
MET OUTPUT STANDARDS						
CORE						
MET	**SKILL ABBREVIATON**	T&R DESCRITION	MAXIMUM SORTIES PER MET		MAXIMUM DAILY SORTIES	
			2 Aircraft	1 Aircraft	2 Aircraft	1 Aircraft
MCT 1.3.4.1.2	**OSA**	Conduct Operational Support Airlift	6	3	6	3
MCT 4.3.8	**ALS**	Conduct Air Logistics Support	6	3		
CORE PLUS						
MCT 1.3.4	**AS**	Conduct Assault Support Operations	6	3		
MCT 1.3.3.3.2	**EXP**	Conduct Aviation Operations From Expeditionary Shore-Based Sites	6	3		

Note

VMR-1 or a VMR Det (UC-35C/D) (3/2/1A/C) is able to execute 9/6/3 total overall sorties on a daily (24 hour period) basis. Based on historical flight data, average sortie duration is 1.7 hours for the UC-35C/D.

1.7 CMMR CORE/MISSION/CORE PLUS SKILLS CREW DEFINITION AND PROFICIENCY REQUIREMENTS

VMR UC-35C/D						
CORE MODEL MINIMUM REQUIREMENT (CMMR)						
MISSION (3000 Phase)						
MISSION SKILLS	**2 Aircraft**			**1 Aircraft**		
	PILOTS	**TA***	**CREWS**	**PILOTS**	**TA***	**CREWS**
OSA	7	2	3	4	1	2
ALS	7	2	3	4	1	2
MISSION PLUS (4000 Phase)						
MISSION PLUS SKILLS	**2 Aircraft**			**1 Aircraft**		
	PILOTS	**TA***	**CREWS**	**PILOTS**	**TA***	**CREWS**
AS	4	0	2	2	1	1
EXP	4	1	2	2	1	1
*TA – TRANSPORT AIRCREWMAN						

COMBAT LEADERSHIP		
DESIGNATION	2 Aircraft	1 Aircraft
T2P	2	1
TAC	5	4
TRANSPORT AIRCREWMAN	2	1

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

VMR UC-35C/D						
CORE MODEL TRAINING STANDARD (CMTS)						
CORE (2000 Phase)						
CORE SKILL	**2 Aircraft**			**1 Aircraft**		
	PILOTS	**TA***	**CREWS**	**PILOTS**	**TA***	**CREWS**
FAM	7	3	3	5	2	2
INST	7	N/A	3	5	N/A	2
NFAM	7	N/A	3	5	N/A	2
CP	7	N/A	3	5	N/A	2
REV	7	N/A	3	5	N/A	2
MISSION (3000 Phase)						
MISSION SKILLS	**2 Aircraft**			**1 Aircraft**		
	PILOTS	**TA***	**CREWS**	**PILOTS**	**TA***	**CREWS**
OSA	7	3	3	5	2	2
ALS	7	3	3	5	2	2

CORE PLUS (4000 Phase)[1]												
CORE PLUS SKILLS	**2 Aircraft[1]**						**1 Aircraft[1]**					
	PILOTS		**TA***		**CREWS**		**PILOTS**		**TA***		**CREWS**	
INTL PROC	**0**	5	**0**	0	**0**	2	**0**	5	**0**	2	**0**	2
ASE	**0**	5	**0**	0	**0**	2	**0**	5	**0**	2	**0**	2
MISSION PLUS (4000 Phase)[1]												
MISSION PLUS SKILLS	**2 Aircraft[1]**						**1 Aircraft[1]**					
	PILOTS		**TA***		**CREWS**		**PILOTS**		**TA***		**CREWS**	
AS	**0**	5	**0**	0	**0**	2	**0**	5	**0**	2	**0**	2
EXP	**0**	5	**0**	2	**0**	2	**0**	5	**0**	2	**0**	2

Note[1]: For Core Plus Mission and Skills, the first number (in blue font and highlighted in gray) represents the number of individuals the squadron is expected to train at all times in order to retain a cadre of capability within the squadron. The second number represents the number of MET capable individuals the squadron should train if that MET becomes an Assigned/Directed Mission Set. For Core Plus Skills the commanding officer determines the number of aircrew to train. The CMTS is based upon the community's collective recommendation.

1.9 INSTRUCTOR REQUIREMENTS. A VMR or VMR Det. should possess the following numbers of personnel with the instructor designations listed in the matrix.

VMR UC-35C/D				
INSTRUCTOR DESIGNATIONS (5000 PHASE)				
Designation	**Pilot**		**Transport Aircrewman**	
	2 Aircraft	**1 Aircraft**	**2 Aircraft**	**1 Aircraft**
NATOPS Instructor (NI)	0	0	0	0
Assistant NATOPS Instructor (ANI)	2	1	2	1
Instrument Evaluator	2	1	N/A	N/A
Transport Aircrewman Instructor	N/A	N/A	2	1

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

VMR UC-35C/D		
RCQD (6000 PHASE)		
DESIGNATION	**2 Aircraft**	**1 Aircraft**
FCF (Pilots)	2	1

APPENDIX A

MET WORKSHEETS

CORE

MCT 1.3.4.1.2	Conduct Operational Support Airlift
MCT 4.3.8	Conduct Air Logistics Support

CORE PLUS

MCT 1.3.4	Conduct Assault Support Operations
MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites

CORE

MCT 1.3.4.1.2 Conduct Operational Support Airlift (OSA)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

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

Standards: (2/1 Aircraft)

Personnel

- 4/3 aircrews formed
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.
- 100% critical MOS fill

Equipment

- 70% Full Mission Capable (FMC) aircraft of PAA (2/1/1 aircraft)

  OR

  Upon establishment, 100 percent RFT entitlement IAW T/M/S standard.
- Operational support equipment fully supports MCT

Training

- 3/2 Crews EXP Mission Skill Proficient IAW T&R requirements

Output Standards

- 6/3 sorties daily sustained during contingency/combat operations

MCT 4.3.8 Conduct Air logistics Support (ALS)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

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

Standards: (2/1 Aircraft)

Personnel

- 4/3 aircrews formed
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.
- 100% critical MOS fill

Equipment

- 70% Full Mission Capable (FMC) aircraft of PAA (2/1/1 aircraft)

  OR

  Upon establishment, 100 percent RFT entitlement IAW T/M/S standard.
- Operational support equipment fully supports MCT

Training

- 3/2 Crews EXP Mission Skill Proficient IAW T&R requirements

Output Standards

- 6/3 sorties daily sustained during contingency/combat operations

CORE PLUS

MCT 1.3.4 Conduct Assault Support Operations (AS)

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

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

Standards: (2/1 Aircraft)

Personnel

- 4/3 aircrews formed
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.
- 100% critical MOS fill

Equipment

- 70% Full Mission Capable (FMC) aircraft of PAA (2/1/1 aircraft)
  OR

Upon establishment, 100 percent RFT entitlement IAW T/M/S standard.

- Operational support equipment fully supports MCT

Training

- 3/2 Crews EXP Mission Skill Proficient IAW T&R requirements

Output Standards

- 6/3 sorties daily sustained during contingency/combat operations

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

Conditions:

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

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

Standards: (2/1 Aircraft)

Personnel

- 4/3 aircrews formed
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.
- 100% critical MOS fill

Equipment

- 70% Full Mission Capable (FMC) aircraft of PAA (2/1/1 aircraft)
  OR

Upon establishment, 100 percent RFT entitlement IAW T/M/S standard.

- Operational support equipment fully supports MCT

Training

- 3/2 Crews EXP Mission Skill Proficient IAW T&R requirements

Output Standards

- 6/3 sorties daily sustained during contingency/combat operations

APPENDIX B

REFERENCE SOURCES

VMR UC-35C/D	
ABBREVIATIONS	
CORE	
CACT	COMMAND AIRCRAFT CREWTRAINING
ACAD	ACADEMICS
FAM	FAMILIARIZATION
NFAM	NIGHT FAMILIARIZATION
INST	INSTRUMENT
CP	CO-PILOT PROCEDURES
MISSION	
OSA	OPERATIONAL SUPPORT AIRLIFT
ALS	AIR LOGISTICS SUPPORT
CORE PLUS	
ASE	AIRCRAFT SURVIVABILITY EQUIPMENT
INT PROC	INTERNATIONAL PROCEDURES
MISSION PLUS	
AS	ASSAULT SUPPORT
EXP	EXPEDITIONARY SHORE-BASED OPERATIONS

CHAPTER 2

UC-35C/D PILOT/7554

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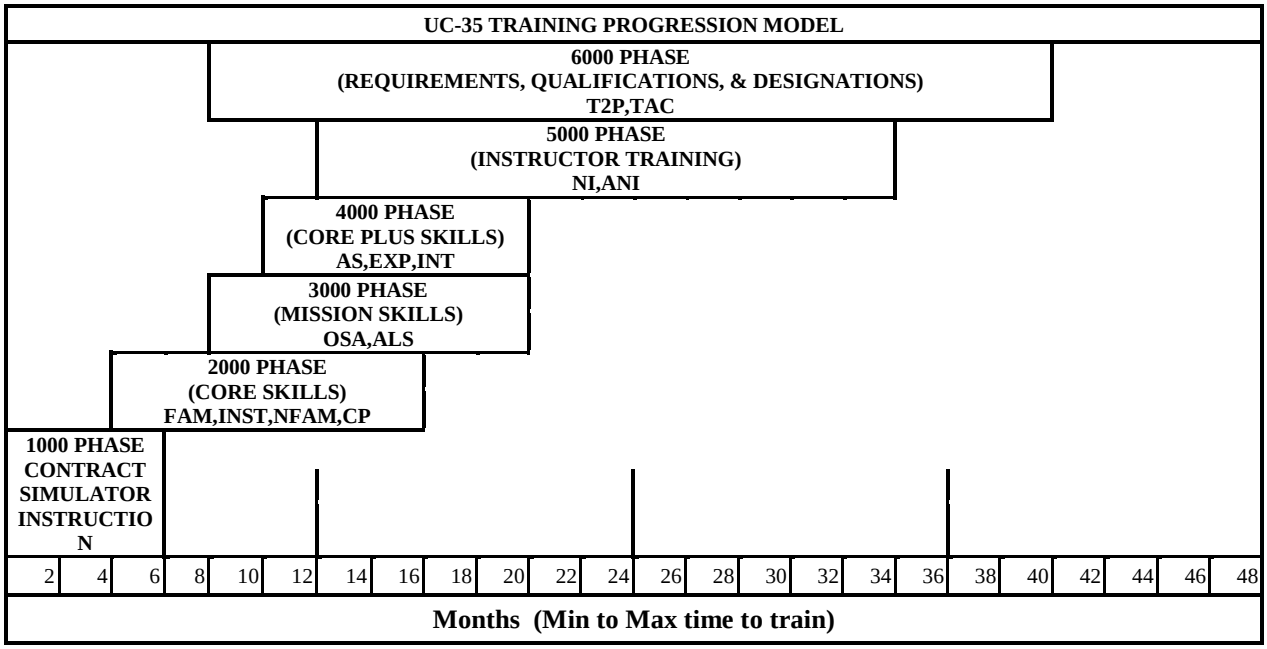
CHAPTER 2

UC-35 PILOT/7554

2.0 UC-35 PILOT/7554 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 war fighting capabilities.

2.1 UC-35 PILOT TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average UC-35 pilot crewmember. Units should use the model as a guide to generate individual training plans.



2.2 PROGRAMS OF INSTRUCTION (POI)

General. The time required to train a UC-35C/D Pilot to completion of the Core Plus phase will vary. Assignment to a specific POI is determined by previous Military Fixed-Wing experience and is listed in the UC-35C/D NATOPS Manual. Those aviators with less than 200 military Fixed-Wing hours* shall be assigned to the Basic (B) POI. Those aviators with more than 200 military Fixed-Wing hours* will normally be assigned to the Conversion (C) POI. Those aviators that have been previously designated a UC-35C/D TAC and are returning to a DIFOP status should be assigned to the Refresher(R) POI. When a crewmember completes a stage of training, that crewmember need only maintain proficiency in the R coded events for that stage to remain proficient.

*Note – See UC-35C/D NATOPS Manual for current flight hour requirements.

2.2.1 Basic (B) POI. Basic (B) Pilots shall fly the entire syllabus. Represents average time-to-train in weeks.

WEEKS	COURSE	PERFORMING ACTIVITY
8	Core Introduction Training	CACT
8	Core Training	VMR Det
36	Mission Training	VMR Det

2.2.2 Conversion (C) POI. Conversion (C) shall fly those events annotated with a C. Represents average time-to-train in weeks

WEEKS	COURSE	PERFORMING ACTIVITY
8	Core Introduction Training	CACT
8	Core Training	VMR Det
30	Mission Training	VMR Det

2.2.3 Refresher (R) POI. Refresher Pilots shall fly those events annotated with a R. Commanding officers/OICs will review the qualifications, previous experience, currency, and demonstrated ability of Refresher Pilots with a view towards combining required flights. Represents average time-to-train in weeks

WEEKS	COURSE	PERFORMING ACTIVITY
1-8	Core Introduction Training	CACT
6	Core Training	VMR Det
10	Mission Training	VMR Det

2.3 PROFICIENCY AND CURRENCY

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

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

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

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

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

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

2.3.3 Skill Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with NATOPS and OPNAV requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3.

2.4 CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES. The tables below delineate T&R events required to be completed to attain proficiency, 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. Certification, qualification and designation letters signed by the commanding officer shall be placed in Aircrew Performance Records (APR) and NATOPS. 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.

VMR UC-35C/D	
Designation	**Initial Event Designation Requirements**
ANI	5100,5101,5102,5103
NI	5100,5101,5102,5103
T2P	6300
TAC	6400,6401,6402
FCF	6500,6501,6009

VMR UC-35C/D	
Qualification	**Initial Event Qualification Requirements**
NATOPS	6000,6001,6002,6100
STANDARD INSTRUMENT	6003,6004,6005,6101
SPECIAL INSTRUMENT	6003,6004,6005,6102
CRM	6006,6007,6103

2.5 SYLLABUS NOTES

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

2.5.2 All flights shall terminate with a comprehensive debrief with emphasis on aircrew performance utilizing all evaluation techniques available.

2.5.3 An ATF is required for any initial event completed by a Basic or Refresher pilot, 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.

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

Code	DESCRIPTION (ENVIRONMENTAL CONDITION)
D	Shall be conducted during day
N*	Shall be conducted at night unaided, at least 30 minutes after official sunset
(N*)	May be conducted day or night. If at night, shall be unaided.

2.5.5 Device matrix. Only include applicable rows.

DEVICE	
Symbol	**Meaning**
A	Conducted in Aircraft
A/S	Aircraft Preferred/Simulator Optional
S	Conducted in Simulator
S/A	Simulator Preferred/Aircraft Optional

2.6 CORE INTRODUCTION PHASE

General

Core Skill Introduction training for the UC-35C/D is conducted by a Civilian Approved Contracted Training (CACT) facility. The UC-35C/D Syllabus Sponsor is responsible for contract negotiations and syllabus content/changes. Recommendations for CACT changes shall be submitted to the Syllabus Sponsor.

All academic requirements for this phase of training are incorporated into the CACT course.

All events in the Core Introduction phase shall be evaluated and documented by a civilian instructor The Syllabus Sponsor shall ensure standardization of civilian contracted instructors.

Event completion is predicated upon demonstrated proficiency. When an individual successfully accomplishes the requirements of an event per the performance standards, the individual should log completion of the event (enter the appropriate T&R code) in M-SHARP. When the event is entered into M-SHARP, the individual's proficiency date for that event is automatically updated to reflect the date the event was completed. When supervising individual events, unit instructors/leaders shall ensure that trainees demonstrate proficiency per T&R standards prior to logging successful event completion. Evaluating individual proficiency in an event

normally requires both objective and subjective assessment. If an individual fails to accomplish the requirements of an event per the performance standards, the individual should not log that event and the proficiency status for that event remains unchanged. Times indicated for each event are for planning purposes only.

Environmental Conditions. Pilots shall fly events annotated with an N at least 30 minutes after official sunset. Events shall be flown in accordance with environmental conditions listed in the matrix below:

Phase Overview

CORE INTRODUCTION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	2.7.1	2-6
CACT	2.7.2	2-7

2.7 CORE INTRODUCTION STAGES

2.7.1 Command Aircraft Crew Training (CACT) Ground School

ACAD-1000 55.0 * B,C CLRM

Goal. UC-35C/D Systems Initial.

Requirements. Per current contract.

Performance Standard. Per current contract.

ACAD-1001 12.0 365 B,C,R CLRM

Goal. UC-35C/D Systems Recurrent.

Requirements. Per current contract.

Performance Standard. Per current contract.

ACAD-1002 3.0 * B,C CLRM

Goal. RVSM.

Requirements. Per current contract.

Performance Standard. Per current contract.

ACAD-1003 2.0 365 B,C,R CLRM

Goal. Weather Radar.

Requirements. Per current contract.

Performance Standard. Per current contract.

ACAD-1004 21.0 * B,C CLRM

Goal. CACT International Procedures Initial.

Requirements. Per current contract.

Performance Standard. Per current contract.

ACAD-1005 4.0 365 R CLRM

Goal. CACT International Procedures Recurrent.

Requirements. Per current contract.

Performance Standard. Per current contract.

Prerequisite. 1002

2.7.2 Command Aircraft Crew Training (CACT) Simulator Training

CACT-1101	4.0	*	B,C	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1102	4.0	*	B,C	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1103	4.0	*	B,C	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1104	4.0	*	B,C	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1105	4.0	365	B,C,R	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1106	4.0	365	B,C,R	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

CACT-1107	4.0	365	B,C,R	SIM	S	(N*)

Goal. Per current contract.

Requirements. Per current contract.

Performance Standard. Per current contract.

2.8 CORE PHASE

Phase Overview

CORE PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	2.9.1	2-8
FAM	2.9.2	2-8
INST	2.9.3	2-9
NFAM	2.9.4	2-10
CP	2.9.5	2-10
REV	2.9.6	2-11

2.9 CORE STAGES

2.9.1 Core Skill Academic (ACAD)

Purpose. Introduce the Pilots to the UC-35C/D.

General. The Pilot should be CACT complete prior beginning this stage.

ACAD-2000 3.0 * B,C,R D A 1 UC-35

Goal. Introduce the UC-35 aircraft.

Requirements.

Brief. ADB, MEL/CDL, Chapter 29 Flight Crew Coordination, Pre-flight, Emergency Equipment, Egress Drill, Post Flight, M-Sharp, CP-Calc, Flight-planning, ORM, WX Brief, NOTAMS, Fuel Packet/Multi-use Card, OPARS, Short Field High Obstacle, CL-Calc. Discuss engine failure during critical phases of flight. Discuss Rapid decompression and time of useful consciousness. Discuss dual engine failure, ditching with two engines operative, single engine, and power off.

Performance Standard. After introduction of above listed item, demonstrate understanding of each subject.

External Syllabus Support. Static aircraft.

Prerequisite. 1101-1107

ACAD-2001 3.0 * B,C,R D A 1 UC-35

Goal. Introduce the UC-35 avionics and navigation systems on a powered aircraft.

Requirements. Demonstrate the power up, set up, and various functions of the FMS, radios and avionics.

Performance Standard. Show proficiency in the use of all navigation equipment and radios.

External Syllabus Support. Ground powered aircraft.

Prerequisite. 2000

2.9.2 Familiarization (FAM)

Purpose. Introduce Pilots to UC-35C/D FAM and CRM procedures.

General

Basic, Conversion, and Refresher Pilots shall be trained and evaluated in the appropriate seat.

Basic, Conversion, and Refresher Pilots shall complete the CACT prior to commencing flight training.

Crew Requirements. Shall be instructed/evaluated by an NI/ANI.

FAM-2100 2.0 * B D A 1 UC-35

Goal. Introduce the UC-35 aircraft.

Requirements.

Brief: Stall warning/AOA, flying AOA, aircraft handling, Take-off abort, landing techniques/landing profile, engine limitations, electrical limitations, airframe limitations.

Flight: Practice - start, taxi, take off, climbs/descents, steep turns, slow flight, stabilized approach, landing.

Performance Standard. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM, and FARs.

Prerequisite. 2000, 2001

FAM-2101 2.0 365 B,C,R,M D A 1 UC-35

Goal. Introduce expanded flight envelope.

Requirements.

Brief: Short Field/High Obstacles, Go-around Crew Coordination, Powerplant Malfunctions at V1, Crosswind Landing Techniques, Aerodynamic/Fuel/Autopilot Limitations. Discuss emergency evacuation of passengers and crew. Review emergency evacuation procedures.

Flight: Practice- Approach to Stall, Landing Pattern, Simulated Single-Engine Failure on Takeoff (NATOPS), Simulated Approach and Landing, Single-engine Go-Around, Two-Engine Go-Around, Emergency Descent, and Reduced Flap Landings (0/15)

Performance Standard. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. 2100

2.9.3 Instruments (INST)

Purpose. Introduce Pilots to UC-35C/D Instrument procedures.

General. Basic, Conversion, and Refresher Pilots shall be trained and evaluated in the left seat.

INST-2200 2.0 365 B,C,R,M (N*) A 1 UC-35

Goal. Introduce instrument flying in the UC-35.

Requirements

Brief: Set-up of FMS,MFD,PFD. Discuss Jeppesen approach plates, NAVFIG, Giant Report, discuss TCASII warnings and conflict resolution maneuvers, IFR minimums.

Flight: ILS (coupled/non-coupled), PAR, Standby Gyro approach, Go-around, VOR holding, FMS holding.

Performance Standard. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

INST-2201 2.0 365 B,C,R,M (N*) A 1 UC-35

Goal. Introduce expanded instrument flight and high altitude operations.

Requirements

Brief: RNAV/GPS, LNAV/MDA, LNAV/VNAV, VOR/TAC, ASR, B/C, GPS HOLDING, Instrument missed approach procedures, Standby Gyro Approach, NDB. Discuss volcanic ash hazards, recognition, and avoidance. Review pressurization system, rapid decompression. Discuss door seal warning, cabin door annunciation, emergency descent.

Flight: RNAV/GPS, LNAV/MDA, LNAV/VNAV, VOR/TAC, ASR, GPS holding, Instrument missed approach procedures, Standby Gyro Approach

Performance Standard. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

2.9.4 Night Familiarization (NFAM)

Purpose. Introduce Pilots to UC-35C/D Night Familiarization procedures.

General. Basic, Conversion, and Refresher Pilots shall be trained and evaluated in the left seat.

NFAM-2300	1.5	180	B,C,R,M	N*	A	1 UC-35

Goal. Introduce night flying in the UC-35.

Requirements

Brief: Cockpit management and lighting, night emergency procedures to include; electrical fire and electrical failure, emergency lighting pack, and visual illusions. Discuss enhanced ground proximity warning system, controlled flight into terrain hazards, recognition, and CFIT escape maneuver.

Flight: Landing pattern, instrument approaches, simulated single engine failures, and go-around (one and two engines).

Performance Standard. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

Prerequisite. 2101

2.9.5 Co-Pilot Responsibility (CP)

Purpose. Introduce UC-35C/D Co-Pilot responsibilities.

General. Basic, Conversion, and Refresher Pilots shall be trained and evaluated in the right seat.

CP-2400	2.0	*	B	(N*)	A	1 UC-35

Goal. Introduce right seat (pilot not flying) navigation, communication, and cockpit management duties. Introduce right seat approaches and landings.

Requirements

Brief: Aircraft servicing, NATOPS - Chapter 29 Flight Crew Coordination, ditching, weather radar, satellite phone, cabin ICS and audio capabilities, passenger/environmental comfort, passenger briefing/procedures, fuel planning (normal, long-range, over water). Discuss anti-icing system, airframe icing hazards.

Flight: Pilot not flying duties (normal procedures, normal checklists, simulated emergency procedures and abnormal checklists); Pilot Flying (approaches and landings).

Performance Standard. Demonstrate safe and proficient air work and effective cockpit management. Operate the aircraft according to the NFM, IFM and FARs.

CP-2401	2.0	60	B,C,R,M	(N*)	A	1 UC-35

Goal. Review right seat (pilot not flying) navigation, communication, and cockpit management duties. Review right seat approaches and landings.

Requirements.

Brief: Aircraft servicing, NATOPS - Chapter 29 Flight Crew Coordination, ditching, weather radar, satellite phone, cabin ICS and audio capabilities, passenger/environmental comfort, passenger briefing/procedures, fuel planning (normal, long-range, over water). Discuss windshear detection, avoidance, escape maneuver.

Flight: Review pilot not flying duties (normal procedures, normal checklists, simulated emergency procedures and abnormal checklists); Pilot Flying (approaches and landings).

Performance Standard. Demonstrate safe and proficient air work and effective cockpit management. Operate the aircraft according to the NFM, IFM and FARs.

Prerequisite. 2400

2.9.6 Familiarization Review (FAM REV)

Purpose. Review UC-35C/D FAM procedures.

General. Basic, Conversion, and Refresher Pilots shall be trained and evaluated in the left seat.

Crew Requirements. Shall be instructed/evaluated by an NI/ANI.

FAM REV-2500 2.0 * B D A 1 UC-35

Goal. Complete FAM Review.

Requirement. Conduct an objective review of the Pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures. Emphasis shall be placed on the aforementioned items with the addition of local course rules, unit SOP, and admin flight procedures. This review is the means to measure the Pilot's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. Review all previous requirements in preparation for upgrade/designation.

Performance Standard. Demonstrate satisfactory knowledge of aircraft operating procedures and limitations. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

Prerequisite. 2101, 2201, 2300, 2401

2.10 MISSION PHASE

General. All Mission Skill events shall be instructed by an NI or ANI.

Phase Overview

MISSION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
OSA	2.11.1	2-11
ALS	2.11.2	2-11

2.11 MISSION STAGES

2.11.1 Operational Support Airlift (OSA)

OSA-3100 2.0 60 B,R,C,M (N*) A 1 UC-35

Goal. Conduct an Operational Support Airlift (OSA) mission.

Requirements.

Brief: Mission and crew coordination, flight planning, weather, fuel requirements, weight and balance, aircraft performance factors, RON, passenger requirements, Scheduling agency coordination (JOSAC, MCB Japan), and emergency procedures.

Flight: Conduct an OSA mission.

Performance Standard. Demonstrate satisfactory knowledge of aircraft operating procedures and limitations. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

Prerequisite. 2000 Phase complete, 6100, 6101.

2. Air Logistics Support

ALS-3200 2.0 60 B,R,C,M (N*) A 1 UC-35

Goal. Conduct an Air Logistics Support (ALS) mission.

Requirements.

Brief: Mission and crew coordination, flight planning, weather, fuel requirements, weight and balance, aircraft performance factors, RON, Scheduling agency coordination (JOSAC, MCB Japan), cargo certification and handling, hazardous cargo considerations, and emergency procedures.

Flight: Conduct an ALS mission.

Performance Standard. Demonstrate satisfactory knowledge of aircraft operating procedures and limitations. Demonstrate safe and proficient air work and show the ability to recognize deviation from Airline Transport Pilot (ATP) standards and work towards correction. Operate the aircraft according to the NFM, IFM and FARs.

Prerequisite. 2000 Phase complete, 6100, 6101.

General

The Core Plus Phase consists of academic, skill, and mission training.

Core Plus training is defined as theater specific and/or low likelihood of occurrence training and should not be the focus of unit training.

The Pilot should be Core Skill Proficient prior to beginning the Core Plus Phase of training.

Shall be instructed/evaluated by an NI/ANI.

Phase Overview

CORE PLUS PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	2.13.1	2-12
AS	2.13.2	2-13
EXP	2.13.3	2-13
INT	2.13.4	2-13

2.13 CORE PLUS STAGES

2.13.1 Core Plus Academics (ACAD)

ACAD-4000 2.0 * B,R,C CLRM

General. At the publishing date of this manual, the ASE academic period of instruction is under development by the Syllabus Sponsor (VMR Det Andrews) and it will be distributed to the UC-35 community once completed.

ACAD-4001 4.0 * B,R,C CLRM

Goal. Pilot under instruction is introduced to mission planning for extended over water and overseas operations.

Requirements. The PUI will be introduced to mission planning for a multiday, long range (1,200 nm) flight that should include the crossing of international airspace. The following tools commonly used for mission planning in the international environment should be introduced: Optimum Path Aircraft Routing System (OPARS), Aircraft/Personnel Automated Clearance System (APACS), Foreign Clearance Guide, Area Planning/General Planning (AP/GP), Giant Report/Global Decision Support System 2 (GDSS2) account, Naval Flight Information Group (NavFIG), Jeppesen View and the validation and use of Jeppesen terminal approach procedures, Universal Flight Planning software for oceanic remote operations, North Atlantic/Pacific Tracks message, North Atlantic/North Pacific Track Oceanic Checklist, North Atlantic Minimum Navigation Performance Specification Airspace Operations Manual, Equal Time Point (ETP)/Point of No Return (PNR), and Aircraft Flight Manual (AFM) Supplement 63. The following contingency and emergency operations will also be discussed: engine failure (drift down), loss of pressurization, lost communication, and weather avoidance/contingency operations in an RVSM and or non radar environment. Review ditching, post ditching aircraft evacuation procedures.

Performance Standard. Successful completion of the course of instruction.

2.13.2 Assault Support (AS)

AS-4100	1.5	*	B,R,C	(N*)	A	1 UC-35

General. At the publishing date of this manual, the AS flight is under development by the Syllabus Sponsor (VMR Det Andrews) and it will be distributed to the UC-35 community once completed.

Prerequisite. 4000

2.13.3 Expeditionary Shore-Based Operations (EXP)

EXP-4200	2.0	*	B,R,C	(N*)	A	1 UC-35

Goal. Conduct expeditionary shore-based operations.

Requirements. Conduct aviation operations from other than home field. This event should be logged any time an OAS-4100 or ALS-3200 is logged.

Performance Standard. Same as OAS-4100 or ALS-3200.

2.13.4 International Procedures (INT)

INT PROC-4300	3.0	*	B,R,C	(N*)	A	1 UC-35

Goal. Pilot under instruction performs extended range operations and alternates between left and right seats throughout the mission in order to demonstrate flight leadership from either seat.

Requirement. PUI shall demonstrate the ability to supervise preflight preparation and manage a crew and aircraft away from home station on an operational mission that should include a RON.

Brief: mission coordination, flight planning, weather, fuel planning, load computations, performance, CRM.

Conduct: PUI shall demonstrate flight leadership and Crew Resource Management by acting as the TAC during an operational mission that includes a RON. During the trip, the PUI shall conduct a two-engine instrument approach.

Performance Standard. Operate the aircraft according to the NFM IFM, FARs and ICAO procedures.

Prerequisite. 4001

INT PROC-4301	3.0	365	B,C,R,C,M	D	A	1 UC-35

Goal. Pilot Under Instruction conducts overwater navigation. Evaluation leg should be conducted with the PUI in the left or right seat.

Requirement. PUI to demonstrate the ability to manage a crew and aircraft on an extended, overwater flight under ICAO rules.

Brief: Mission coordination, crew briefing, ATFP briefing coordination, flight planning, weather brief, fuel planning, weight and balance, aircraft inspection, cargo inspection (as required), manifest inspection, trip aircraft clearance, foreign clearance guide review, survival gear inspection, fuel computations, performance, customs, and agriculture inspection.

Conduct: PUI to conduct overwater navigation in accordance with ICAO, FAR and NATOPS convention. The following contingency and emergency operations will also be discussed: engine failure (drift down), loss of pressurization, lost communication, and weather avoidance/contingency operations in an RVSM and or non radar environment. During the trip, the PUI shall conduct a two-engine instrument approach and landing from the left seat.

Performance Standard. Operate the aircraft according to the NFM IFM, FARs and ICAO procedures.

Prerequisite. 4001, 4300

2.14 INSTRUCTOR TRAINING PHASE

General. The Instructor Phase consists of four events leading to NATOPS Instructor and Assistant NATOPS Designations.

Phase Overview

INSTRUCTOR TRAINING PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
IUT	2.15.1	2-14

2.15 INSTRUCTOR TRAINING STAGES

2.15.1 Instructor Under Training (IUT)

IUT-5100 1.5 * B,C D A 1 UC-35

Goal. NI/ANI Training

Requirements

Introduce the IUT to the skills required to correct common student errors and prepare the IUT to conduct T&R syllabus and NATOPS/Instrument evaluation flights IAW Chap. 30 of the NATOPS Manual and OPNAV 3710.7.

Brief: Training Areas, Maneuver Descriptions, Operating Limitations, EP/Abnormals, Aeromedical Factors, Aerodynamics

Flight: Flight Planning, Weight & Balance, Performance Planning, Flight/Mission Briefing, Preflight/Postflight, Start, Taxi & Takeoff, Steep Turns, Slow Flight, Stalls, Fuel Management, Emergency Descent, Holding, Precision Approach, Wave Off(s), Non-Precision Approaches, Single Engine Work, Reduced Flap Landings, Contract Maintenance Procedures

Performance Standard. The IUT shall be evaluated on the ability to correctly brief the flight, demonstrate and introduce maneuvers in accordance with applicable directives, correct student deficiencies, conduct proper debrief and display appropriate subject matter expertise.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. Qualified TAC, Standardization Board recommendation

IUT-5101 1.5 * B,C D A 1 UC-35

Goal. NI/ANI Training

Requirements

Introduce the IUT to the skills required to correct common student errors and prepare the IUT to conduct T&R syllabus and NATOPS/Instrument evaluation flights from the right seat IAW Chap. 30 of the NATOPS Manual and OPNAV 3710.7.

Brief: Operating Limitations, EP/Abnormals, Aeromedical Factors, Aerodynamics

Flight: Flight Planning, Weight & Balance, Performance Planning, Flight/Mission Briefing, Preflight/Postflight, Start, Taxi & Takeoff, Steep Turns, Slow Flight, Stalls, Fuel Management, Emergency Descent, Holding, Precision Approach, Wave Off(s), Non-Precision Approaches, Single Engine Work, Reduced Flap Landings, Contract Maintenance Procedures

Performance Standard. The IUT shall be evaluated on the ability to correctly brief the flight, demonstrate and introduce maneuvers in accordance with applicable directives, correct student deficiencies, conduct proper debrief and display appropriate subject matter expertise.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. 5100

IUT-5102 1.5 * B,C D A 1 UC-35

Goal. NI/ANI Training

Requirements

IUT shall refine the skills required to correct common student errors and prepare to conduct T&R syllabus and NATOPS/Instrument evaluation flights IAW Chap. 30 of the NATOPS Manual and OPNAV 3710.7.

Brief: Operating Limitations, EP/Abnormals, Aeromedical Factors, Aerodynamics

Flight: Flight Planning, Weight & Balance, Performance Planning, Flight/Mission Briefing, Preflight/Postflight, Start, Taxi & Takeoff, Steep Turns, Slow Flight, Stalls, Fuel Management, Emergency Descent, Holding, Precision Approach, Wave Off(s), Non-Precision Approaches, Single Engine Work, Reduced Flap Landings, Contract Maintenance Procedures

Performance Standard. The IUT shall be evaluated on the ability to correctly brief the flight, demonstrate and introduce maneuvers in accordance with applicable directives, correct student deficiencies, conduct proper debrief and display appropriate subject matter expertise.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. 5101

IUT-5103 2.0 * B,R,C D A 1 UC-35

Goal. NI/ANI Check

Requirements

IUT shall be evaluated on the skills required to correct common student errors and conduct T&R syllabus and NATOPS/Instrument evaluation flights from the right seat IAW Chap. 30 of the NATOPS Manual and OPNAV 3710.7. Flight should be completed in conjunction with a NATOPS/Instrument evaluation.

Brief: Operating Limitations, EP/Abnormals, Aeromedical Factors, Aerodynamics

Flight: Flight Planning, Weight & Balance, Performance Planning, Flight/Mission Briefing, Preflight/Postflight, Start, Taxi & Takeoff, Steep Turns, Slow Flight, Stalls, Fuel Management, Emergency Descent, Holding, Precision Approach, Wave Off(s), Non-Precision Approaches, Single Engine Work, Reduced Flap Landings, Contract Maintenance Procedures

Performance Standard. The IUT shall be evaluated on the ability to correctly brief the flight, demonstrate and introduce maneuvers in accordance with applicable directives, correct student deficiencies, conduct proper debrief and display appropriate subject matter expertise.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. 5102

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

Phase Overview

RCQD PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	2.17.1	2-15
NTPS	2.17.2	2-17
INST	2.17.3	2-17
T2P	2.17.4	2-18
TAC	2.17.5	2-18
FCP	2.17.6	2-19

2.17 RCQD STAGES

2.17.1 RCQD Academics

ACAD-6000 3.0 365 B,R,CM E Open Book NATOPS Examination

Goal. The open book examination shall consist of, but not be limited to the question bank. The purpose of the open book examination is to evaluate the Pilot's knowledge of the appropriate publications and the aircraft.

Performance Standard. Achieve a minimum score of 3.5 on the open book examination.

ACAD-6001 1.0 365 B,R,C,M E Closed Book NATOPS Examination

Goal. The purpose of the closed book examination is to evaluate the Pilot's knowledge of normal/emergency procedures and aircraft limitations.

Performance Standard. Achieve a minimum score of 3.3 on the closed book examination.

Prerequisite. 6000

ACAD-6002 2.0 365 B,R,C,M E Oral NATOPS Examination

Goal. The oral examination shall consist of, but not be limited to the question bank. The instructor may draw upon their experience to ask questions of a direct and objective nature to evaluate the Pilot's knowledge of normal/emergency procedures, aircraft limitations, and performance.

Performance Standard. Achieve a minimum grade of qualified on the oral examination.

Prerequisite. 6000,6001

ACAD-6003 8.0 365 B,R,C,M E Instrument Ground School

Goal. The Instrument Ground School shall be an approved Commander Naval Air Forces (CNAF) syllabus.

Performance Standard. Achieve a minimum grade of qualified for Instrument Ground School.

ACAD-6004 1.0 365 B,R,C,M E Instrument Examination

Goal. Successful completion of the Instrument Examination.

Performance Standard. Achieve a minimum passing score on the Instrument Examination.

ACAD-6005 2.0 365 B,R,CM E Instrument Oral Examination

Goal. The oral NATOPS instrument examination shall consist of, but not be limited to the question bank in addition to any subject listed for coverage in OPNAVINST 3710.7.

Performance Standard. Achieve a minimum grade of qualified on the oral NATOPS instrument examination.

Prerequisite. 6004

ACAD-6006 1.0 365 B,R,C,M E CRM BASIC

Goal. Introduce multi-piloted Crew Resource Management.

Requirement. This course of instruction is included in initial CACT.

ACAD-6007 1.0 365 B,RC,M E CRM T/M/S

Goal. This course of instruction is under development by VMR Det Andrews and will be distributed to the UC-35 community once completed.

ACAD-6009 2.0 365 B,R,C,M E FCP Open Book Examination

Goal. The open book examination shall consist of 20 to 30 questions, including, but not limited to information from Chapter 10 of NATOPS. The purpose of the open book examination is to evaluate the Pilot's knowledge of FCF procedures and the aircraft systems and limitations.

Performance Standard. Achieve a minimum score of 3.5 on the open book examination.

ACAD-6010 1.0 30 B,R,C,M E Monthly EP Examination

Goal. Successfully complete the UC-35C/D Monthly Emergency Procedures Examination.

Requirement. Pass the Monthly Emergency Procedures Examination.

Performance Standard. Achieve a passing score on the Monthly Emergency Procedures Examination.

2.17.2 NATOPS Evaluation

NTPS-6100	2.0	365	B,R,C,M	E	(N*)	S/A	1 UC-35

Goal. Complete annual NATOPS flight evaluation. Conduct an objective evaluation of the Pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures. Emphasis shall be placed on the aforementioned items with the addition of local course rules, unit SOP, and admin flight procedures. The NATOPS evaluation is intended to evaluate compliance with NATOPS procedures. The NATOPS evaluation is the means to measure the Pilot's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. The NATOPS evaluation process should be as much a learning tool and/or experience as it is an evaluation.

Requirement. Demonstrate comprehensive knowledge and understanding of NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS and applicable manuals. Complies with unit SOP and local course rules.

Prerequisite. Core Skill and Mission Skill Phase should be complete, ACPM 83XX Phase complete; 6000, 6001, 6002.

NTPS-6103	1.0	90	B,R,C,M	E	(N*)	A	1 UC-35 (static)

Goal. Quarterly NATOPS static aircraft emergency procedures review.

Requirement. This review should cover selected aircraft emergencies in a static aircraft. This event can be completed in conjunction with a flight. Demonstrate comprehensive knowledge and understanding of NATOPS emergencies.

Performance Standard. Executes the review in accordance with NATOPS.

2.17.3 Instrument Evaluations

INST-6101	2.0	365	B,R,C,M	E	(N*)	A/S	1 UC-35

Goal. Complete standard instrument flight evaluation. Following completion of the ground evaluation events, a standard instrument flight evaluation event shall be flown and completed with a grade of "Qualified." Conduct an objective evaluation of the airman's knowledge of flight planning, filing, briefing, and conduct of flight under normal operating conditions, emergency procedures, closing out flight plans, and debriefing.

Requirement. Demonstrate comprehensive knowledge and understanding of instrument flight procedures, NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS, NATOPS Instrument Flight Manual, and training rules.

Prerequisite. 6003, 6004, 6005

INST-6102	2.0	365	B,R,C,M	E	(N*)	A/S	1 UC-35

Goal. Complete special instrument flight evaluation. Following completion of the ground evaluation events, a special instrument flight evaluation event shall be flown and completed with a grade of "Qualified." Conduct an objective evaluation of the airman's knowledge of flight planning, filing, briefing, and conduct of flight under normal operating conditions, emergency procedures, closing out flight plans, and debriefing.

Requirement. Demonstrate comprehensive knowledge and understanding of instrument flight procedures, NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS, NATOPS Instrument Flight Manual, and training rules.

Prerequisite. Meets OPNAVINST 3710.7 Special Instrument requirements, recommended by Stan Board, 6003, 6004, 6005

2.17.4 Transport 2 Pilot (T2P)

T2P-6300	1.5	365	B,R,C,M	E	(N*)	A	1 UC-35

Goal. Complete T2P flight evaluation. Conduct an objective evaluation of the Pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures. Emphasis shall be placed on the aforementioned items with the addition of local course rules, unit SOP, and admin flight procedures. The T2P evaluation is intended to evaluate and measure the Pilot's ability to perform T2P functions and responsibilities.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS and applicable manuals. Complies with unit SOP and local course rules.

Prerequisite. Core Skill Phase should be complete, ACPM 83XX Phase complete; 2500, 6000, 6001, 6002.

2.17.5 Transport Aircraft Commander (TAC)

TAC-6400	1.5	*	B,R,C	E	(N*)	A	1 UC-35

Goal. Complete TAC Mission Procedures Review. Pilot Under Instruction will plan, brief, execute, and debrief an OSA mission. Factors to review include, but are not limited to fuel planning, route planning, weather considerations, DV handling, weight & balance, aircraft performance, and JOSAC coordination.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS and applicable manuals. Complies with unit SOP and local course rules.

Prerequisite. 6300

TAC-6401	1.5	*	B,R,C	E	D	A	1 UC-35

Goal. Complete TAC review flight. Conduct a review of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures. Emphasis shall be placed on the aforementioned items with the addition of local course rules, unit SOP, and admin flight procedures. The TAC review is intended to review and assess the Pilot's ability to perform TAC functions and responsibilities.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS and applicable manuals. Complies with unit SOP and local course rules.

Prerequisite. 6400

TAC-6402	1.5	365	B,R,C,M	E	(N*)	A	1 UC-35

Goal. Complete TAC flight evaluation. Conduct an objective evaluation of the Pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures. Emphasis shall be placed on the aforementioned items with the addition of local course rules, unit SOP, and admin flight procedures. The TAC evaluation is intended to evaluate and measure the Pilot's ability to perform TAC functions and responsibilities.

Requirements. Demonstrate comprehensive knowledge and understanding of NATOPS, unit SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7, NATOPS and applicable manuals. Complies with unit SOP and local course rules.

Prerequisite. 6000, 6001, 6002, 6401

2.17.6 Functional Check Pilot (FCP)

FCP-6500 3.5 * B,C,R D A 1 UC-35

Goal. Instruct the TAC on the safe and proper conduct of an FCF. This does not necessarily entail conducting an entire "A" profile in flight.

Requirements. The flight shall consist of execution and/or discussion of all "A" profile functional check flight procedures from the left seat and be instructed by a qualified FCP Pilot.

Brief: FCP Responsibilities, Briefing, Check Fight Profiles, Crew Coordination, Aircraft Limitations, Preflight, Start Procedures, Checklists, Stall/Spin Recovery, Airstart Procedures, Operating Limitations; Engine Performance, Pressurization, Bleed Air System, Aerodynamic, Avionic/Flight Instrument, Hydraulic System, and Electrical System Checks; Approach and Recovery, and Landing

Flight: Preflight, Start Procedures, Checklists, Approach to Stalls, Airstart Procedures, Operating Limitations; Engine Performance, Pressurization, Bleed Air System, Aerodynamic, Avionic/Flight Instrument, Hydraulic System, and Electrical System Checks; Approach and Recovery, and Landing

Performance Standard. Satisfactorily execute procedures per the NFM and IAW OPNAVINST 3710.7_.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. 6009,6402

FCP-6501 3.5 * B,R,C D A 1 UC-35

Goal. FCP Evaluation/Designation

Requirements. The flight shall consist of execution and/or discussion of all "A" profile functional check flight procedures from the right seat and be evaluated by a qualified FCP Pilot.

Brief: FCP Responsibilities, Briefing, Check Fight Profiles, Crew Coordination, Aircraft Limitations, Preflight, Start Procedures, Checklists, Stall/Spin Recovery, Airstart Procedures, Operating Limitations; Engine Performance, Pressurization, Bleed Air System, Aerodynamic, Avionic/Flight Instrument, Hydraulic System, and Electrical System Checks; Approach and Recovery, and Landing

Flight: Preflight, Start Procedures, Checklists, Approach to Stalls, Airstart Procedures, Operating Limitations; Engine Performance, Pressurization, Bleed Air System, Aerodynamic, Avionic/Flight Instrument, Hydraulic System, and Electrical System Checks; Approach and Recovery, and Landing

Performance Standard. Satisfactorily execute procedures per the NFM and IAW OPNAVINST 3710.7_.

External Syllabus Support. Approved working area or restricted area.

Prerequisite. FCP 6500

2.18 AVIATION CAREER PROGRESSION MODEL (8000 PHASE)

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:

Marine Air Command and Control System (MACCS)
Aviation Ground Support
Joint Air Operations
ACE Battle Staff
MAGTF

Seabased Operations
Combatant Commander Organizations

All tactical T/M/S T&R manuals have ACPM training requirements embedded within the progressive training phases, including the flight leadership POI. If not already completed prior to assignment to VMR-1 or a VMR det (C-9, UC-35, C-12, or C-20), pilots assigned to an OSA platform shall complete ACPM training requirements as outlined per their original T/M/S MOS T&R manual. Refer to NAVMC 3500.14, Aviation T&R Program Manual, as a primary reference for ACPM training requirements.

General

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.

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

VMR-1 VMR Det (UC-35)				
ACPM TO UC-35 T&R MATRIX				
STAGE	**EVENT NUMBER**	**CLASS**	**ACPM DESCRIPTION**	**PREREQUISITE TO (PHASE/STAGE/EVENT)**
ACPM	8200	(U)	MACCS AGENCIES, FUNCTIONS AND CONTROL OF AIRCRAFT AND MISSLES	2000 PHASE
ACPM	8201	(U)	MWCS BRIEF	2000 PHASE
ACPM	8202	(U)	ACA AND AIRSPACE	2000 PHASE
ACPM	8210	(U)	AVIATION GROUND SUPPORT	2000 PHASE
ACPM	8230	(U)	ACE BATTLESTAFF	2000 PHASE
ACPM	8231	(U)	BATTLE COMMAND DISPLAY	2000 PHASE
ACPM	8240	(U)	SIX FUNCTIONS OF MARINE AVIATION	2000 PHASE
ACPM	8241	(U)	JTAR/ASR INTRODUCTION AND PRACTICAL APPLICATION CLASS	2000 PHASE
ACPM	8242	(U)	SITE COMMAND PRIMER	2000 PHASE
ACPM	8250	(U)	THEATER AIR GROUND SYSTEM (TAGS)	2000 PHASE
ACPM	8300	(U)	AIR DEFENSE	3000 PHASE
ACPM	8310	(U)	FORWARD ARMING AND REFUELING POINT (FARP) OPERATIONS	3000 PHASE
ACPM	8311	(U)	MARINE CORPS TACTICAL FUEL SYSTEMS	3000 PHASE
ACPM	8320	(U)	ACE BATTLE STAFF	3000 PHASE
ACPM	8321	(U)	JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEVELOPMENT	3000 PHASE
ACPM	8322	(U)	JOINT AIR TASKING CYCLE PHASE 2: TARGET DEVELOPMENT	3000 PHASE
ACPM	8323	(U)	JOINT AIR TASKING CYCLE PHASE 3: WEAPONING AND ALLOCATION	3000 PHASE
ACPM	8324	(U)	JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PRODUCTION	3000 PHASE
ACPM	8325	(U)	JOINT AIR TASKING CYCLE PHASE 5:	3000 PHASE
ACPM	8326	(U)	FORCE EXECUTION	3000 PHASE
ACPM	8340	(U)	JOINT AIR TASKING CYCLE PHASE 6: COMBAT ASSESMENT	3000 PHASE
ACPM	8350	(U)	INTEGRATING FIRES AND AIRSPACE WITHIN THE MAGTF	3000 PHASE
ACPM	8351	(U)	ESTABLISHING CONTROL ASHORE	3000 PHASE
ACPM	8630	(U)	TACRON ORGANIZATIONS AND FUNCTIONS	6000 PHASE
ACPM	8660	(U)	TACTICAL AIR COMMAND CENTER (TACC)	6000 PHASE
ACPM	8640	(U)	JOINT OPS INTRO	6000 PHASE
ACPM	8641	(U)	JOINT DATA NETWORK	6000 PHASE
ACPM	8620	(U)	ESG/CSG INTEGRATION	6000 PHASE

2.19 UC-35C/D PILOT T&R SYLLABUS MATRIX

UC-35 PILOT T&R MATRIX																	
SKILL	**TRNG CODE**	**T&R DESCRIPTION**	**POI**	**E**	**DEVICE**	**# OF A/C**	**CON**	**RE FLY**	**# OF ACAD**	**ACAD TIME**	**# OF SIM**	**SIM TIME**	**# OF FLTS**	**FLT TIME**	**PREREQUISITE**	**NOTES**	**CHAINING**	**EVENT CONV**
CORE INTRODUCTION TRAINING (1000 PHASE EVENTS)																		
CORE INTRODUCTION ACADEMICS																		
ACAD	**1000**	**CACT SYSTEM INITIAL**	B,C					*		**55.0**								1000
ACAD	**1001**	**CACT SYSTEM REC**	R					365		**12.0**								1001
ACAD	**1002**	**RVSM**	B,C					*		**3.0**								1002
ACAD	**1003**	**WEATHER RADAR**	B,C,R					365		**2.0**								1003
ACAD	**1004**	**CACT INTERNATIONAL**	B,C					*		**21.0**								1004
ACAD	**1005**	**CACT INTERNATIONAL**	R					365		**8.0**					1002			1005
ACAD TOTAL									6	**101.0**	0	**0.0**	0	**0.0**				
CACT INTIAL SIMULATOR (CACT SIM)																		
CACT	**1101**	**CACT SIM 1**	B,C		**S**		(N*)	*				**4.0**						1101
CACT	**1102**	**CACT SIM 2**	B,C		**S**		(N*)	*				**4.0**						1102
CACT	**1103**	**CACT SIM 3**	B,C		**S**		(N*)	*				**4.0**						1103
CACT	**1104**	**CACT SIM 4**	B,C		**S**		(N*)	*				**4.0**						1104
CACT	**1105**	**CACT SIM 5**	B,C,R		**S**		(N*)	365				**4.0**						1105
CACT	**1106**	**CACT SIM 6**	B,C,R		**S**		(N*)	365				**4.0**						1106
CACT	**1107**	**CACT SIM 7**	B,C,R		**S**		(N*)	365				**4.0**						1107
CACT INT SIM TOTAL									0	**0.0**	7	**28.0**	0	**0.0**				
CORE INTRODUCTION TRAINING (1000 PHASE EVENTS) TOTAL									4	**0.0**	7	**28.0**	0	**0.0**				
CORE TRAINING (2000 PHASE EVENTS)																		
CORE ACADEMICS (ACAD)																		
ACAD	**2000**	**INTRO LOCAL PROC**	B,C,R		**A**	1	D	*		**3.0**					1101-1107			2000
ACAD	**2001**	**FMS PROCEDURES**	B,C,R		**A**	1	D	*		**3.0**					2000			2001
TOTAL ACAD STAGE									2	**6.0**	0	**0.0**	0	**0.0**				
FAMILIARIZATION (FAM)																		
FAM	**2100**	**INTRO UC-35 A/C**	B		**A**	1	D	*						**2.0**	2000,2001			2100
FAM	**2101**	**INTRO EXP ENVELOPE**	B,C,R,M		**A**	1	D	365						**2.0**	2100			2101
TOTAL FAM STAGE									0	**0.0**	0	**0.0**	2	**4.0**				
INSTRUMENTS (INST)																		
INST	**2200**	**INTRO INST NAV**	B,C,R,M		**A**	1	(N*)	365						**2.0**				2200
INST	**2201**	**HIGH ALT OPS**	B,C,R,M		**A**	1	(N*)	365						**2.0**			2200	2201
TOTAL INST STAGE									0	**0.0**	0	**0.0**	2	**4.0**				
NIGHT FAMILIARIZATION (NFAM)																		
NFAM	**2300**	**INTRO NIGHT OPS**	B,C,R,M		**A**	1	N*	180						**1.5**	2101			2300
TOTAL NFAM STAGE									0	**0.0**	0	**0.0**	1	**1.5**				
CO-PILOT RESPONSIBILITIES (CP)																		
CP	**2400**	**INTRO CP RESP**	B		**A**	1	(N*)	*						**2.0**		RS		2400
CP	**2401**	**PRACTICE CP RESP**	B,C,R,M		**A**	1	(N*)	60						**2.0**	2400	RS		2401
TOTAL CP STAGE									0	**0.0**	0	**0.0**	2	**4.0**				

UC-35 PILOT T&R MATRIX																	
SKILL	TRNG CODE	T&R DESCRIPTION	POI	E	DEVICE	# OF A/C	CON	RE FLY	# OF ACAD	ACAD TIME	# OF SIM	SIM TIME	# OF FLTS	FLT TIME	PREREQUISITE	NOTES	CHAINING	EVENT CONV
FAMILIARIZATION REVIEW (FAM REV)																		
REV	**2500**	**PRAC FAM MANEUVERS**	B		**A**	1	D	*						**2.0**	2101,2201,2300,2401		2101,2401	2500
TOTAL REV STAGE									0	**0.0**	0	**0.0**	1	**2.0**				
CORE TRAINING (2000 PHASE EVENTS) TOTAL									2	**6.0**	0	**0.0**	8	**14.0**				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																		
OPERATIONAL SUPPORT AIRLIFT (OSA)																		
OSA	**3100**	**OSA**	B,R,C,M		**A**	1	(N*)	60						**2.0**	2000 PHASE COMPLETE,6100,6101	PAX	2201,2401,3200,2300~N,2101	3100
TOTAL OSA STAGE									0	**0.0**	0	**0.0**	1	**2.0**				
AIR LOGISTICS SUPPORT (ALS)																		
ALS	**3200**	**ALS**	B,R,C,M		**A**	1	(N*)	60						**2.0**	2000 PHASE COMPLETE,6100,6101	CARGO	2201,2401,3100,2300~N,2101	3200
TOTAL ALS STAGE									0	**0.0**	0	**0.0**	1	**2.0**				
TOTAL MISSION TRAINING (3000 PHASE EVENTS)									0	**0.0**	0	**0.0**	2	**4.0**				
CORE PLUS TRAINING (4000 PHASE EVENTS)																		
CORE PLUS ACADEMICS																		
ACAD	**4000**	**ASE Academics**	B,R,C		**G**			*		**2.0**								4000
ACAD	**4001**	**International Procedures**	B,R,C,M		**G**			730		**2.0**								4001
TOTAL ACAD STAGE									2	**4.0**	0		0					
ASSAULT SUPPORT (AS)																		
AS	**4100**	**TAC PROCEDURES**	B,R,C		**A**	1	(N*)	*						**1.5**	4000	ASE	3100,3200	4100
TOTAL AS STAGE									0	**0.0**	0	**0.0**	1	**1.5**				
EXPEDITIONARY SHORE-BASED OPERATIONS (EXP)																		
EXP	**4200**	**EXP SHORE BASED OPS**	B,R,C		**A**	1	(N*)	*					1	**2.0**			3100,3200	4200
TOTAL EXP STAGE									0	**0.0**	0	**0.0**	1	**2.0**				
INTERNATIONAL PROCEDURES (INT)																		
INT	**4300**	**INTL OSA**	B,R		**A**	1	(N*)	*					1	**3.0**	4001		3100,3200,2201,2401,2300~N,4301	4300
INT	**4301**	**INTL ALS**	B,R		**A**	2	(N*)	*					1	**3.0**	4001,4300		3100,3200,2201,2401,2300~N,4300	4301
TOTAL INT STAGE									0	**0.0**	0	**0.0**	2	**6.0**				
INSTRUCTOR TRAINING (500 PHASE EVENTS)																		
INSTRUCTOR UNDER TRAIING (IUT)																		
IUT	**5100**	**INTRO FAM/INST MAN**	B,C		**A**	1	D	*						**1.5**	TAC, STAN Board Rec			5100
IUT	**5101**	**PRAC FAM/INST MAN**	B,C		**A**	1	D	*						**1.5**	5100	RS		5101
IUT	**5102**	**INST TECHNIQUES**	B,C		**A**	1	D	*						**1.5**	5101			5102
IUT	**5103**	**IUT EVAL**	B,R,C		**A**	1	D	*						**2.0**	5102	RS		5103
TOTAL IUT STAGE									0	**0.0**	0	**0.0**	4	**6.5**				
INSTRUCTOR TRAINING (5000 PHASE EVENTS) TOTAL									0	**0.0**	0	**0.0**	4	**6.5**				

UC-35 PILOT T&R MATRIX																	
SKILL	TRNG CODE	T&R DESCRIPTION	POI	E	DEVICE	# OF A/C	CON	RE FLY	# OF ACAD	ACAD TIME	# OF SIM	SIM TIME	# OF FLTS	FLT TIME	PREREQUISITE	NOTES	CHAINING	EVENT CONV
REQUIREMENT, QUALIFICATIONS, AND DESIGNATIONS (RQD) (6000 PHASE)																		
RQD ACADEMICS (ACAD)																		
ACAD	**6000**	**NATOPS Open Book Exam**	B,R,C,M					365		**3.0**								6000
ACAD	**6001**	**NATOPS Closed Book**	B,R,C,M					365		**1.0**					6000			6001
ACAD	**6002**	**NATOPS Oral Exam**	B,R,C,M					365		**2.0**					6000,6001			6002
ACAD	**6003**	**Instrument Ground School**	B,R,C,M					365		**8.0**								6003
ACAD	**6004**	**Instrument Exam**	B,R,C,M					365		**1.0**								6004
ACAD	**6005**	**Instrument Oral Exam**	B,R,C,M					365		**2.0**					6004			6005
ACAD	**6006**	**CRM BASIC**	B,R,C,M					365		**1.0**								6006
ACAD	**6007**	**CRM T/M/S**	B,R,C,M					365		**1.0**								6007
ACAD	**6009**	**FCP RESPONSIBILITIES**	B,R,C,M					365		**2.0**								6009
ACAD	**6010**	**Monthly EP Exam**	B,R,C,M					30		**1.0**								6010
TOTAL ACAD STAGE									10	**22.0**	0	**0.0**	0	**0.0**				
NATOPS																		
NATOPS	**6100**	**NATOPS Evaluation**	B,R,C,M		**S/A**	1	(N*)	365				**2.0**		**0.0**	6000,6001,6002, see event			6100
NATOPS	**6103**	**Quarterly EP Eval**	B,R,C,M		**A**	A	(N*)	90		**0.0**				**1.0**				6103
NATOPS TOTAL									0	**0.0**	1	**2.0**	1	**1.0**				
INSTRUMENT (INST)																		
INST	**6101**	**Standard Instrument Eval**	B,R,C,M		**A/S**	1	(N*)	365						**2.0**	6003,6004,6005			6101
INST	**6102**	**Special Instrument Eval**	B,R,C,M		**A/S**	1	(N*)	365						**2.0**	6003,6004,6005		6101	6102
TOTAL INST STAGE									0	**0.0**	0	**0.0**	2	**4.0**				
TRANSPORT 2 PILOT (T2P)																		
T2P	**6300**	**T2P**	B,R,C,M		**A**	1	D	365						**1.5**	6000,6001,6002			6200
TOTAL T2P STAGE									0	**0.0**	0	**0.0**	0	**1.5**				
TRANSPORT AIRCRAFT COMMANDER (TAC)																		
TAC	**6400**	**TAC REV**	B,C,R		**A**	1	(N*)	*						**1.5**	6300			6400
TAC	**6401**	**TAC REV**	B,C,R		**A**	1	D	*						**1.5**	6400			6401
TAC	**6402**	**TAC EVAL**	B,C,R,M		**A**	1	(N*)	365						**1.5**	6000,6001,6002,6401		6300	6402
TOTAL TAC STAGE									0	**0.0**	0	**0.0**	3	**4.5**				
FUNCTIONAL CHECK PILOT (FCP)																		
FCP	**6500**	**FCP REVIEW**	B,C		**A**	1	D	*						**3.5**	6009,6402			6500
FCP	**6501**	**FCP EVAL**	B,C,R		**A**	1	D	*						**3.5**	6500			6501
TOTAL FAC STAGE									0	**0.0**	0	**0.0**	2	**7.0**				

AVIATION CAREER PROGRESSION MODEL (ACPM)																			
ACPM	8200	MACCS						*		0.5					2000 PHASE			8200
ACPM	8201	MWCS BRIEF						*		0.5					2000 PHASE			8201
ACPM	8202	ACA AND AIRSPACE						*		0.8					2000 PHASE			8202
ACPM	8210	AVIATION SUPPORT						*		0.7					2000 PHASE			8210
ACPM	8230	ACE BATTLESTAFF						*		TBD					2000 PHASE			8230
ACPM	8231	BATTLE COMMAND						*		TBD					2000 PHASE			8231
ACPM	8240	SIX FUNCTIONS						*		1.7					2000 PHASE			8240
ACPM	8241	JTAR/ASR						*		1.3					2000 PHASE			8241
ACPM	8242	SITE COMMAND						*		TBD					2000 PHASE			8242
ACPM	8250	(TAGS)						*		0.9					2000 PHASE			8250
ACPM	8300	AIR DEFENSE						*		0.9					3000 PHASE			8300
ACPM	8310	(FARP) OPERATIONS						*		0.8					3000 PHASE			8310
ACPM	8311	TACTICAL FUEL						*		0.9					3000 PHASE			8311
ACPM	8320	ACE BATTLE STAFF						*		1.0					3000 PHASE			8320
ACPM	8321	JOINT AIR TASKING 1						*		0.4					3000 PHASE			8321
ACPM	8322	JOINT AIR TASKING 2						*		0.4					3000 PHASE			8322
ACPM	8323	JOINT AIR TASKING 3						*		0.4					3000 PHASE			8323
ACPM	8324	JOINT AIR TASKING 4						*		0.4					3000 PHASE			8324
ACPM	8325	JOINT AIR TASKING 5						*		0.4					3000 PHASE			8325
ACPM	8326	FORCE EXECUTION						*		0.4					3000 PHASE			8326
ACPM	8340	JOINT AIR TASKING 6						*		0.5					3000 PHASE			8340
ACPM	8350	INTEGRATING FIRES						*		0.9					3000 PHASE			8350
ACPM	8351	CONTROL ASHORE						*		TBD					3000 PHASE			8351
ACPM	8630	TACRON						*		1.0					6000 PHASE			8630
ACPM	8660	(TACC)						*		0.5					6000 PHASE			8660
ACPM	8640	JOINT OPS INTRO						*		0.9					6000 PHASE			8640
ACPM	8641	JOINT DATA NETWORK						*		1.3					6000 PHASE			8641
ACPM	8620	ESG/CSG INTEGRATION						*		TBD					6000 PHASE			8620
TOTAL ACPM STAGE									23	17.5	0	0.0	0	0.0				

CHAPTER 3

UC-35C/D TRANSPORT AIRCREWMAN (TA)/6247

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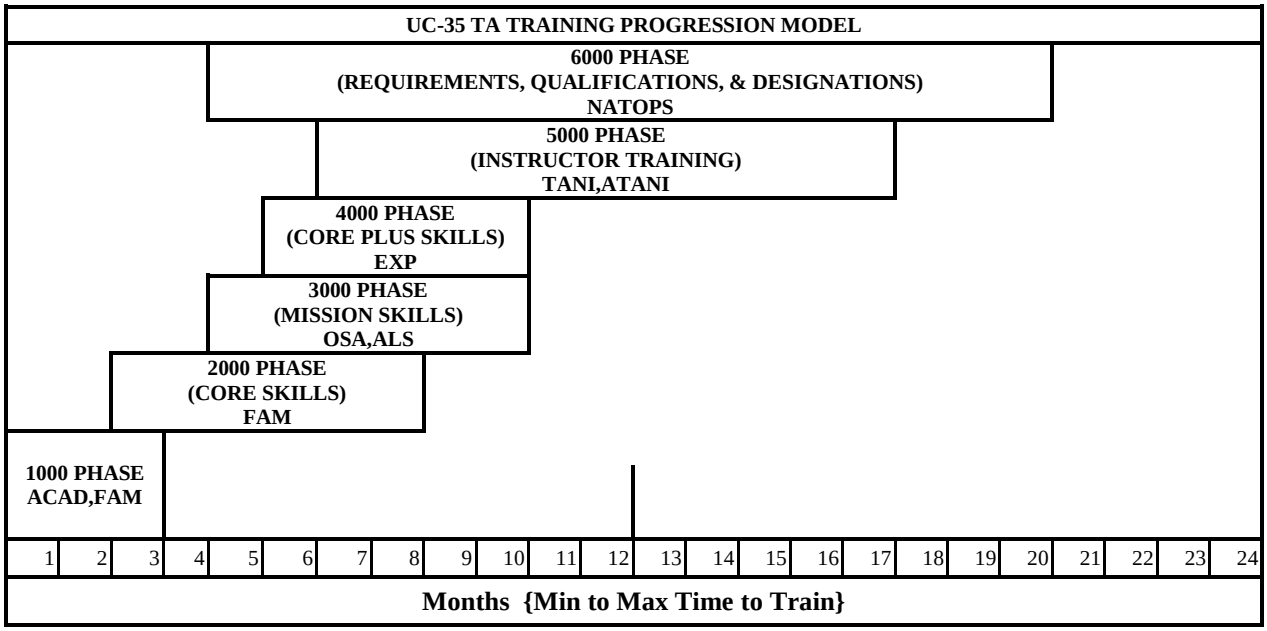
CHAPTER 3

UC-35 TRANSPORT AIRCREWMAN (TA)/6247

3.0 UC-35 TRANSPORT AIRCREWMAN (TA)/6247 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core, Mission and Core Plus Skills. The goal of this chapter is to develop individual and unit war fighting capabilities.

3.1 UC-35 TRANSPORT AIRCREWMAN TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average UC-35 Transport Aircrewman crewmember. Units should use the model as a guide to generate individual training plans.



3.2 PROGRAMS OF INSTRUCTION (POI)

General

The time required to train a UC-35C/D Transport Aircrewman to completion of the Core Plus Phase is based off of flight hour requirements that are published in the UC-35 NATOPS manual. Assignment to a specific POI is determined by previous Aircrew experience. Transport Aircrewman Under Instruction (TAUI) without prior Naval Aircrew experience shall be assigned to the Basic (B) POI and shall continue to fly 2000 Phase level codes until the minimum flight hour requirement as delineated in NAVAIR 01-C35CAA-1 is met. TANI who were previously designated Naval Aircrew shall be assigned to the Basic (B) POI and may be designated as UC-35 TA upon successful completion of the Basic (B) POI. Those Aircrewman who were previously designated UC-35C/D TA's and are returning to a VMR shall be assigned to the Refresher (R) POI. When a crewmember completes a stage of training, that crewmember needs only to maintain proficiency in the (R) coded events for that stage to remain proficient.

All 1000 Phase level codes shall be instructed by a TANI. TAUI who are flying their 2000 Phase level codes to obtain their minimum flight hour requirement may fly with a qualified TA, TANI, or any qualified Pilot. 3000 Phase Level codes may be flown in place of 2000 level codes to obtain minimum flight hour requirements but shall be flown with a qualified TANI.

3.2.1 Basic (B) POI. Basic (B) Transport Aircrewman shall fly the entire syllabus.

WEEKS	COURSE	PERFORMING ACTIVITY
2	Core Introduction Training	VMR Det
3	Core Training	VMR Det
4	Mission Training	VMR Det

3.2.2 Refresher (R) POI. Refresher Transport Aircrewman shall fly those events annotated with a R. Commanding officers/OICs will review the qualifications, previous experience, currency, and demonstrated ability of Refresher Transport Aircrewman with a view towards combining required flights.

WEEKS	COURSE	PERFORMING ACTIVITY
2	Core Introduction Training	VMR Det
2	Core Training	VMR Det
3	Mission Skill Training	VMR Det

3.3 PROFICIENCY AND CURRENCY

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

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

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

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

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

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

3.3.3 Skill Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with NATOPS and OPNAV requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3.

3.4 CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES. The tables below delineate T&R events required to be completed to attain proficiency, 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. Certification, qualification and designation letters signed by the commanding officer shall be placed in Aircrew Performance Records (APR) and NATOPS. 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.

VMR UC-35C/D	
INDIVIDUAL DESIGNATION REQUIREMENTS	
Designation	**Initial Event Designation Requirements**
TA	6100
TANI	5000,5001,5002
ATANI	5000,5001,5002

VMR UC-35C/D	
INDIVIDUAL QUALIFICATION REQUIREMENTS	
Qualification	**Initial Event Qualification Requirements**
NATOPS	6000,6001,6002,6100
CRM	6003

3.5 SYLLABUS NOTES

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

3.5.2 All flights shall terminate with a comprehensive debrief with emphasis on aircrew performance utilizing all evaluation techniques available.

3.5.3 An ATF is required for any initial event completed by a Basic or Refresher pilot, 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.

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

Code	DESCRIPTION (ENVIRONMENTAL CONDITION)
D	Shall be conducted during day
(N)	May be conducted day or night. If at night, aided or unaided.
N*	Shall be conducted at night unaided, at least 30 minutes after official sunset
(N*)	May be conducted day or night. If at night, shall be unaided.

3.5.5 Device matrix. Only include applicable rows.

DEVICE	
Symbol	**Meaning**
A	Conducted in Aircraft

3.6 CORE INTRODCUTION PHASE

General

Core Skill Introduction training for the UC-35C/D is conducted at the squadron/unit.

The purpose is to introduce Transport Aircrewman Under Instruction (TAUI) to the UC-35C/D. The focus shall be on Aircraft systems, handling, servicing, inspections and logistics

All events in the Core Skill Introduction phase shall be evaluated and documented by a TANI. The Syllabus Sponsor shall ensure standardization of all TANIs.

Event completion is predicated upon demonstrated proficiency. When an individual successfully accomplishes the requirements of an event per the performance standards, the individual should log completion of the event (enter the appropriate T&R code) in M-SHARP. When the event is entered into M-SHARP, the individual's proficiency date for that event is automatically updated to reflect the date the event was completed. When supervising individual events, unit instructors/leaders shall ensure that trainees demonstrate proficiency per T&R standards prior to logging successful event completion. Evaluating individual proficiency in an event normally requires both objective and subjective assessment. If an individual fails to accomplish the requirements of an event per the performance standards, the individual should not log that event and the proficiency status for that event remains unchanged. Times indicated for each event are for planning purposes only.

Environmental Conditions. Transport Aircrewman shall fly events annotated with an N at least 30 minutes after official sunset. Events shall be flown in accordance with environmental conditions listed in the matrix below:

Phase Overview

CORE INTRODUCTION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	3.7.1	3-6
FAM	3.7.2	3-6

3.7 CORE INTRODUCTION STAGES

3.7.1 Academic Ground School (ACAD) (1000 PHASE)

ACAD-1000 3.0 * B D CLRM 1 UC35 (Static)

Goal. Introduce ground procedures, and aircraft systems.

Requirements. Discuss aircraft mission, qualification requirements, CRM, aircraft publications, flight publications, flight schedule, flight advisory, NAVFLIR, Logbooks, M-Sharp. Discuss UHF/SATCOM Operation, IFF Transponder Operation, HF Operation, ICS/Radio procedures. Discuss aircraft weight limitations; center of gravity limitations; weight and balance terms and definitions; fuel imbalance limitations and baggage loading.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

External Syllabus Support. Static aircraft with ground power unit.

ACAD-1001 2.0 * B D CLRM 1 UC-35 (Static)

Goal. Introduce ground procedures, and aircraft systems.

Requirements. Introduce Flight line safety, aircraft danger areas. Introduce aircraft discrepancy book, contract maintenance personnel, general aircraft description, C/D differences, preflight, aircraft security, and aircraft parking. Introduce radio procedures, aircraft fueling, and engine oil servicing procedures. Introduce safety equipment, fire bottle location, survival equipment, ASE equipment and use, primary and emergency exit, O2 masks, egress, lavatory, coffee station, cabin preparation for flight, and seat operation. Review baggage loading.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

External Syllabus Support. Static aircraft with ground power unit.

Prerequisite. 1000

3.7.2 Familiarization (FAM)

Purpose. Introduce Transport Aircrewman to UC-35C/D FAM and CRM procedures.

Crew Requirements. Shall be instructed/evaluated by a TANI.

FAM-1100 1.5 * B D A 1 UC-35

Goal. Introduce Operation of UC-35 aircraft.

Requirements. Introduce aircrew coordination/situational awareness. Perform Weight and Balance; and aircrew brief. Introduce normal and emergency checklist, flight packet, communication during critical phases of flight, lookout doctrine crew coordination, icing considerations, aircraft lighting, basic cockpit familiarization, and duties during an emergency. Introduce single-point and over the wing refueling procedures. Introduce preflight and post-flight inspections.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

Prerequisite. 1000, 1001

FAM-1101 1.5 * B D A 1 UC-35

Goal. Familiarization with aircraft systems and emergency procedures.

Requirements. Familiarize TAUI with aircrew coordination/situational awareness. Perform Weight and Balance; and aircrew brief. Familiarize normal and emergency checklist, flight packet, communication during critical phases of flight, lookout doctrine crew coordination, icing considerations, aircraft lighting, basic cockpit operation, and duties during an emergency. Familiarize single-point and over the wing refueling procedures at civil airfields, Familiarize preflight and post-flight inspections.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

Prerequisite. 1100

FAM-1102 1.5 * B,R N* A 1 UC-35

Goal. Familiarization with aircraft systems and emergency procedures during night operations.

Requirements. Familiarize TAUI with nighttime aircrew coordination/situational awareness. Perform Weight and Balance; and aircrew brief. Familiarize TAUI with normal and emergency checklist, flight packet, communication during critical phases of flight, lookout doctrine crew coordination. Discuss night time considerations, icing considerations, aircraft lighting, basic cockpit operation, and duties during an emergency. Familiarize TAUI with single-point and over the wing refueling procedures at civil airfields, familiarize preflight and post-flight inspections.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

Prerequisite. 1101

3.8 CORE PHASE

General

Purpose. Familiarize the TAUI with the Operational Support Aircraft mission. The TAUI shall continue to fly these codes under actual or simulated conditions until minimum flight hour requirement is met IAW NAVAIR 01-C35CAA-1.

Crew Requirements. Shall be instructed/evaluated by a TANI.

Phase Overview

CORE PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
FAM	3.9.1	3-7

3.9 CORE STAGES

3.9.1 Familiarization (FAM)

Purpose. Introduce Transport Aircrewman to UC-35C/D FAM and CRM procedures.

General. Basic, and Refresher Transport Aircrewman shall be trained and evaluated in their respective crew position.

Crew Requirements. Shall be instructed/evaluated by a TANI.

FAM-2100 1.5 * B,R (N*) A 1 UC-35

Goal. Familiarization with Aircraft systems and radio operation.

Requirements. Familiarize TAUI in the operation of aircraft systems to include pressurization, communication, navigation, UHF and HF radio operation, and aircraft satellite phone. Practice normal procedures and simulated emergency procedures.

Performance Standard. After introduction of above listed items, demonstrate understanding and operation of each subject.

Prerequisite. 1102

FAM-2101 1.5 365 B,R D A 1 UC-35

Goal. Familiarization with DV passenger procedures.

Requirements. Familiarize TAUI with DV passenger procedures under simulated conditions. Discuss military appearance, customs and courtesies. DV Passenger comfort, baggage handling, passenger manifest, and passenger safety. Perform passenger brief.

Performance Standard. After introduction of above listed items, demonstrate understanding of each subject.

Prerequisite. 2100

3.10 MISSION PHASE

General

Purpose. Conduct Operational Support Airlift and Air Logistics Support missions as a Transport Aircrewman. TAUI may only fly these codes with a qualified Transport Aircrewmen. Initial codes shall be flown with a TANI/ATANI.

Crew Requirements. Shall be instructed/evaluated by a TANI.

Phase Overview

MISSION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
OSA	3.11.1	3-8
ALS	3.11.2	3-8

3.11 MISSION STAGES

3.11.1 Operational Support Airlift (OSA)

OSA-3100 1.5 60 B,R (N*) A 1 UC-35

Goal. Conduct an Operational Support Airlift (OSA) Mission.

Requirements. Conduct OSA mission: Crew coordination, fuel requirements, weight and balance, baggage handling, passenger comfort and safety, RON, normal and emergency procedures, passenger brief.

Performance Standard. Conduct flight IAW NAVAIR 01-C35CAA-1. Assist pilots as required with all normal and emergency procedures.

Prerequisite. 2101

3.11.2 Air Logistics Support ALS

ALS-3200 1.5 60 B,R (N*) A 1 UC-35

Goal. Conduct an Air Logistics Support (ALS) Mission.

Requirements. Conduct ALS mission: Crew coordination, fuel requirements, weight and balance, cargo certification and handling, hazardous cargo considerations, RON, normal and emergency procedures.

Performance Standard. Conduct flight IAW NAVAIR 01-C35CAA-1. Assist pilots as required with all normal and emergency procedures.

Prerequisite. 2101

3.12 CORE PLUS (4000 PHASE

General

The Core Plus Phase consists of academics, skill, and mission training.

Core Plus training is defined as theater specific and/or low likelihood of occurrence training and should not be the focus of unit training.

Phase Overview

MISSION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
EXP	3.13.1	3-9

3.13.1 Expeditionary Shore-Based Operations (EXP)

EXP-4200 1.5 365 B,R (N*) A 1 UC-35

Goal. Conduct expeditionary shore-based operations.

Requirements. Conduct aviation operations when deployed OCONUS. This event should be logged in conjunction with OAS-3100 or ALS-3200 when performed during contingency operations.

Performance Standard. Conduct flight IAW NAVAIR 01-C35CAA-1 and Theatre specific SPINS.

Prerequisite. 6100,6200

3.14 INSTRUCTOR TRAINING PHASE

General. The Instructor Phase consists of three events leading to the Transport Aircrewman NATOPS Instructor and Transport Aircrewman Assistant NATOPS Designations.

Phase Overview

CORE PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
IUT	3.15.1	3-9

3.15 INSTRUCTOR TRAINING STAGES

3.15.1 Instructor Under Training (IUT)

3.15.2 INSTRUCTOR TRAINING (5000)

1. General. The Instructor Phase consists of three events leading to the Transport Aircrewman NATOPS Instructor and Transport Aircrewman Assistant NATOPS Designations.

2. Instructor Under Training (IUT)

IUT-5000 1.5 * B,R, (N*) A 1 UC-35

Goal. TA NATOPS Instructor Familiarization.

Requirements. Introduce the TANI under instruction (UI) to the skills required to correct common errors and prepare the TANI(UI) to conduct T&R syllabus and NATOPS evaluation flights IAW Chap 30 of NAVAIR 01-C35CAA-1. Discuss Instructional techniques and conducting a NATOPS Evaluation. Review all academic requirements, C/D differences. Review passenger procedures, night considerations, icing considerations, weight and balance, aircraft servicing and emergency procedures.

Performance Standard. After introduction of above listed item, demonstrate understanding of each subject.

Prerequisite. 6200

IUT-5001 1.5 * B,R, (N*) A 1 UC-35

Goal. TA NATOPS Instructor Review.

Requirements. Review passenger manifest, passenger briefing, passenger procedures, DV procedures, hazardous cargo, aircraft handling, fueling, all weather operations and RON procedures. Discuss environmental system, pressurization system, oxygen system, anti-ice/de-ice systems and aircraft lighting. Practice preflight and postflight, checklists, all normal and emergency procedures, TA duties and responsibilities.

Performance Standard. Demonstrate satisfactory knowledge of passenger handling procedures and passenger brief. Assist pilots as required with all normal and emergency procedures.

Prerequisite. 5000

IUT-5002 1.5 365 B,R (N*) A 1 UC-35

Goal. TA NI/ANI designation evaluation flight.

Requirements. TANI(UI) is to brief and conduct a NATOPS evaluation on the TANI. TANI(UI) must show a thorough knowledge of all academic and flight requirements of a Transport Aircrewman and demonstrate the ability to instruct a student on the requirements.

Performance Standard. Demonstrate a thorough knowledge of and be able to effectively instruct all aircraft systems, limitations, normal and emergency procedures, and TA responsibilities.

Prerequisite. 5001

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

Phase Overview

MISSION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ACAD	3.17.1	3-10
NTPS	3.17.2	3-11
TA	3.17.3	3-11

3.17 RCQD STAGES

3.17.1 UC-35C/D RQD Academics (ACAD)

ACAD-6000 4.0 365 B,R,M E Open Book NATOPS Examination

Goal. The open book examination shall consist of, but not be limited to the question bank found in the NAVAIR 01-C35CAA-1. The purpose of the open book examination is to evaluate the TA's knowledge of the appropriate publications and the aircraft.

Performance Standard. Achieve a minimum score of 3.5 on the open book examination.

ACAD-6001 2.0 365 B,R,M E Closed Book NATOPS Examination

Goal. The purpose of the closed book is to evaluate the TA's knowledge of normal and emergency procedures and aircraft limitations.

Performance Standard. Achieve a minimum score of 3.3 on the closed book examination.

Prerequisite. 6000

ACAD-6002 2.0 365 B,R,M E Oral NATOPS Examination

Goal. The oral examination shall consist of, but not be limited to the question bank found in the NAVAIR 01-C35CAA-1. The instructor may draw upon their own experience to ask questions of a direct and objective nature to evaluate the TA's knowledge of normal and emergency procedures and aircraft limitations.

Performance Standard. Achieve a minimum grade of qualified on the oral examination.

Prerequisite. 6000,6001

ACAD-6003 2.0 365 B,R,M E CRM BASIC

Goal. This course of instruction is under development by VMR Det Andrews and will be distributed to the UC-35 community once completed.

Requirements.

ACAD-6004 1.0 30 B,R,M E Monthly EP Examination

Goal. Successfully complete the UC-35C/D Monthly Emergency Procedures Examination.

Requirement. Pass the Monthly Emergency Procedures Examination.

Performance Standard. Achieve a passing score on the Monthly Emergency Procedures Examination.

3.17.2 NATOPS Evaluation (NTPS)

NTPS-6100 1.5 365 B,R,M E (N*) A 1 UC-35

Goal. Complete annual NATOPS flight evaluation. Conduct an evaluation of the TA's knowledge of mission and normal operating procedures (flight and ground), CRM, aircraft systems, emergency procedures.

Requirements. Demonstrate a comprehensive knowledge and understanding of NATOPS, and SOP.

Performance Standard. Achieve a minimum grade of qualified on the evaluation.

Prerequisite. 6000,6001,6002,6003

3.17.3 Transport Aircrewman (TA)

TA-6200 0.0 * B,R Transport Aircrewman Tracking Code

Goal. Transport Aircrewman designation tracking code. This code will be utilized when the (B) under instruction attains the hours required in model aircraft (as delineated in the NAVAIR 01-C35CAA-1) to be designated a TA.

Requirements. Demonstrate a comprehensive knowledge and understanding of the TA's mission aboard the UC-35

Performance Standard. This code will be flown in conjunction with the NATOPS 6200 for initial designation.

Prerequisite. 6100, 3000 Phase complete

3.18. UC-35 TRANSPORT AIRCREWMAN (TA) T&R SYLLABUS MATRIX

UC-35 TA T&R MATRIX																	
SKILL	TRNG CODE	T&R DESCRIPTION	POI	E	DEVICE	# OF A/C	CON	RE FLY	# OF ACAD	ACAD TIME	# OF SIM	SIM TIME	# OF FLTS	FLT TIME	PREREQUISITE	NOTES	CHAINING	EVENT CONV
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																		
CORE SKILL ACADEMICS																		
ACAD	**1000**	**GROUND PROCEDURES**	B					*		3.0								1000
ACAD	**1001**	**AIRCRAFT SYSTEMS**	B					*		3.0					1000			1001
TOTAL CORE SKILL INTRODUCTION ACADEMICS									2	6.0	0	0.0	0	0.0				
FAMILIARIZATION (FAM)																		
FAM	**1100**	**INTRO UC-35**	B		**A**	1	D	*						**1.5**	1000,1001			1100
FAM	**1101**	**A/C SYSTEMS EPs**	B		**A**	1	D	*						**1.5**	1100			1101
FAM	**1102**	**NIGHT FAM**	B,R		**A**	1	N*	*						**1.5**	1101			1102
TOTAL FAM STAGE									0	0.0	0	0.0	3	4.5				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) TOTAL									2	6.0	0	0.0	3	4.5				
CORE SKILL TRAINING (2000 PHASE EVENTS)																		
FAMILIARIZATION (FAM)																		
FAM	**2100**	**A/C SYSTEMS & RADIOS**	B,R		**A**	1	(N*)	*						**1.5**	1102			2100
FAM	**2101**	**INTRO DV PROCEDURES**	B,R,M		**A**	1	D	365						**1.5**	2100			2101
TOTAL FAM STAGE									0	0.0	0	0.0	2	3.0				
CORE SKILL TRAINING (2000 PHASE EVENTS) TOTAL									0	0.0	0	0.0	2	3.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																		
OPERATIONAL SUPPORT AIRLIFT (OSA)																		
OSA	**3100**	**OSA**	B,R,M		**A**	1	(N*)	60						**1.5**	2101	PAX	2101,3200	3100
TOTAL OSA STAGE									0	0.0	0	0.0	1	1.5				
AIR LOGISTICS SUPPORT (ALS)																		
ALS	**3200**	**ALS**	B,R,M		**A**	1	(N*)	60						**1.5**	2101	CARGO	2101,3100	3200
TOTAL ALS STAGE									0	0.0	0	0.0	1	1.5				
TOTAL MISSION SKILL TRAINING (3000 PHASE EVENTS)									0	0.0	0	0.0	2	3.0				
CORE PLUS TRAINING (4000 PHASE EVENTS)																		
EXPEDITIONARY SHORE-BASED OPERATIONS (EXP)																		
EXP	**4200**	**EXP OPERATIONS**	B,R		**A**	1	(N*)	365						**1.5**	6100,6200		3100,3200,2101	4200
TOTAL EXP STAGE									0	0.0	0	0.0	1	1.5				
CORE PLUS TRAINING (4000 PHASE EVENTS) TOTAL									0	0.0	0	0.0	1	1.5				

UC-35 TA T&R MATRIX																	
SKILL	**TRNG CODE**	**T&R DESCRIPTION**	**POI**	**E**	**DEVICE**	**# OF A/C**	**CON**	**RE FLY**	**# OF ACAD**	**ACAD TIME**	**# OF SIM**	**SIM TIME**	**# OF FLTS**	**FLT TIME**	**PREREQUISITE**	**NOTES**	**CHAINING**	**EVENT CONV**
INSTRUCTOR TRAINING (500 PHASE EVENTS)																		
INSTRUCTOR UNDER TRAIING (IUT)																		
IUT	**5000**	**INTRO FAM**	B,R		**A**	1	(N*)	*						**1.5**	6200			5000
IUT	**5001**	**INSTRUCTOR FAM**	B,R		**A**	1	(N*)	*						**1.5**	5000			5001
IUT	**5002**	**EVAL**	B,R		**A**	1	(N*)	*						**1.5**	5001			5002
TOTAL IUT STAGE									0	**0.0**	0	**0.0**	3	**4.5**				
INSTRUCTOR TRAINING (5000 PHASE EVENTS) TOTAL									0	**0.0**	0	**0.0**	3	**4.5**				
REQUIREMENT, QUALIFICATIONS, AND DESIGNATIONS (RQD) (6000 PHASE)																		
RQD ACADEMICS (ACAD)																		
ACAD	**6000**	**NATOPS Open Book Exam**	B,R,M		**G**			365		**4.0**								6000
ACAD	**6001**	**NATOPS Closed Book**	B,R,M		**G**			365		**2.0**					6000			6001
ACAD	**6002**	**NATOPS Oral Exam**	B,R,M		**G**			365		**2.0**					6000,6001			6002
ACAD	**6003**	**CRM BASIC**	B,R,M		**G**			365		**2.0**								6003
ACAD	**6004**	**Monthly EP Exam**	B,R,M		**G**			30		**1.0**								6004
TOTAL ACAD STAGE									5	**11.0**	0	**0.0**	0	**0.0**				
NATOPS																		
NATOPS	**6100**	**NATOPS Evaluation**	B,R,M	**E**	**A**	1	(N*)	365						**1.5**	6000,6001,6002,6003			6100
NATOPS TOTAL									0	**0.0**	0	**0.0**	1	**1.5**				
TRANSPORT AIRCREWMAN (TA)																		
TA	**6200**	**TA TRACKING CODE**	B,R												6100, 3000 Phase Comp			6200
TOTAL T3P STAGE									0	**0.0**	0	**0.0**	0	**0.0**				