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From: Commandant of the Marine Corps
To: Distribution List

Subj: KC-130J TRAINING AND READINESS (T&R) MANUAL

Ref: (a) NAVMC 3500.14B

Encl: (1) KC-130J T&R Manual

1. Purpose. To revise standards and regulations regarding the training of KC-130J aircrew per the reference.

2. Cancellation. NAVMC 3500.53

3. Scope. Significant changes in this revision include the following:

a. Revision of metrics and standards for aircrew readiness reporting in Chapter 1.

b. Removal of all references in Chapter 3 to enlisted taxiing of aircraft and addresses a right-seat taxi observer syllabus.

c. Addition of Chapter 5, Crewmaster.

4. Information. Recommended changes to this Manual are invited and may be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General (CG), Training and Education Command (TECOM), Aviation Training Division (ATD) using standard Naval Correspondence or the Automated Message Handling System plain language address: CG TECOM ATD.

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

6. Certification. Reviewed and approved this date.

R. C. FOX
By direction

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CHAPTER 1

KC-130J TRAINING AND READINESS UNIT REQUIREMENTS

CHAPTER 1

KC-130J TRAINING AND READINESS UNIT REQUIREMENTS

100. VMGR TRAINING AND READINESS UNIT 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 Mission Essential Tasks (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.

101. VMGR MISSION. Support the MAGTF Commander by providing air-to-air refueling and assault support, day or night under all weather conditions during expeditionary, joint, or combined operations.

102. VMGR TABLE OF ORGANIZATION (T/O). As of this publication date, VMGR units are authorized:

Squadron

15 Aircraft
49 Pilots [30 TPC/19 CP (T2P or T3P)]
83 Crew Masters*
* During transition from LM and CC to CM, VMGR units are authorized to fill vacant CM billets with up to 41 LMs and 42 CCs until all CCs and LMs have been converted to CM.

12 Aircraft Detachment

38 Pilots [24 TPC/14 CP (T2P or T3P)]
67 Crew Masters*
* During transition from LM and CC to CM, VMGR units are authorized to fill vacant CM billets with up to 33 LMs and 34 CCs until all CCs and LMs have been converted to CM.

9 Aircraft Detachment

27 Pilots [18 TPC/9 CP (T2P or T3P)]
51 Crew Masters*
* During transition from LM and CC to CM, VMGR units are authorized to fill vacant CM billets with up to 25 LMs and 26 CCs until all CCs and LMs have been converted to CM.

3 Aircraft Detachment

11 Pilots [6 TPC/5 CP (T2P or T3P)]
16 Crew Masters*
* During transition from LM and CC to CM, VMGR units are authorized to fill vacant CM billets with up to 8 LMs and 8 CCs until all CCs and LMs have been converted to CM.

VMGR AIRCREW TRAINING UNIT (ATU)

5 Pilots (5 TPC)
9 Crew Masters*
* During transition from LM and CC to CM, VMGR units are authorized to fill vacant CM billets with up to 6 LMs and 3 CCs until all CCs and LMs have been converted to CM.

103. VMGR SKILLS ABBREVIATIONS. Shading indicates Core Plus/Mission Plus Skills.

ALZ	ASSAULT LANDING ZONE
TN	TACTICAL NAVIGATION
TR	THREAT REACTION
CPL	CARGO AND PASSENGER LOADING
CPT	COCKPIT PROCEDURES TRAINING
LAT	LOW ALTITUDE TACTICS
LRN	LONG RANGE NAVIGATION
NS(H)	NIGHT SYSTEMS HIGH
AAR	AIR REFUELING
RGR	RAPID GROUND REFUELING
AD	AIR DELIVERY
DT	DEFENSIVE TACTICS
NS(L)	NIGHT SYSTEMS LOW
BI	BATTLEFIELD ILLUMINATION

104. VMGR MISSION ESSENTIAL TASK LIST (METL)

1. Core METL. The METL is a list of specified tasks a VMGR squadron is designed to perform. Core METs, standardized by type unit, are drawn from the Marine Corps Task List (MCTL) and are used for unit readiness. Core Plus METs are additional METs that are theater specific and/or have a low likelihood of occurrence. Core Plus METs may be included in readiness reporting when contained within an Assigned Mission METL. An Assigned Mission METL consists of only the selected MCTs (drawn from Core and Core Plus METs) necessary for that Assigned Mission.

Core METL

MCT 1.3.3.3.2	Conduct Aviation Operations From Expeditionary Shore-Based Sites
MCT 1.3.4.1	Conduct Combat Assault Transport
MCT 1.3.4.2	Conduct Air Refueling
MCT 1.3.4.2.1	Provide Aviation-Delivered Ground Refueling
MCT 4.3.4	Conduct Air Delivery

Core Plus MET

MCT 1.3.4.3	Provide Aviation Delivered Battlefield Illumination

2. VMGR MET Output Standards. MET output standards are the required level of performance a VMGR unit must be capable of sustaining during contingency/combat operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training events. A core capable KC-130J unit is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The

sortie rates are based on 2.6 hour average sortie duration and assumes > 70 percent FMC aircraft and > 90 percent T/O aircrew on hand. If unit FMC aircraft < 70 percent or T/O aircrew < 90 percent, core capability will be degraded by a like percentage. A core capable unit is able to accomplish all tasks designated in the unit METL from a main base or expeditionary base.

MET Output Standards **15 Aircraft Squadron/12 Aircraft Det/ 9 Aircraft Det / 3 Aircraft Det**			
MCT	**MET**	**OUTPUT STANDARD**	
		MAXIMUM DAILY SORTIES	**MAXIMUM DAILY SORTIES**
MCT 1.3.3.3.2 **ALZ**	Conduct Aviation Operations From Expeditionary Shore-Based Sites	20/16/12/4	13/10/6/3
MCT 1.3.4.1 **CPL**	Conduct Combat Assault Transport		20/16/12/4
MCT 1.3.4.2 **AAR**	Conduct Air Refueling		20/16/12/4
MCT 1.3.4.2.1 **RGR**	Provide Aviation-Delivered Ground Refueling		2 Points*
MCT 4.3.4 **AD**	Conduct Air Delivery		8/6/5/1
Core Plus MET Output Standards			
MCT	**MET**	**OUTPUT STANDARD**	
		MAXIMUM DAILY SORTIES	**SORTIES**
MCT 1.3.4.3 **BI**	Provide Aviation Delivered Battlefield Illumination	8/6/5/1	8/6/5/1

* The output standard for Aviation-Delivered Ground Refueling is not stated in sorties but on refueling points provided.

105. VMGR MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILLS MATRIX. This matrix provides a pictorial view of the relationship between the unit Mission Essential Task (MET) and each Core/Mission/Core Plus/Mission Plus Skill required to perform the MET. Shading indicates a Core Plus MET and corresponding Core Plus/Mission Plus Skill.

VMGR MET TO CORE/MISSION/CORE PLUS/MISSION PLUS MATRIX

METL	CORE SKILLS 2000 PHASE							MISSION SKILLS 3000 PHASE					CORE PLUS 4000 PHASE SKILLS						MISSION PLUS
	NS (H)	LRN	TN	LAT	SEC FORM	DIV FORM	IR TR	ALZ	CPL	AAR	RGR	AD	TN	NS(L)	RF TR	DT	AAR	AD	BI
MCT 1.3.3.3.2 Conduct Aviation Ops From Expeditionary Shore-Based Sites	X						X	X							X	X			
MCT 1.3.4.1 Conduct Combat Assault Transport	X	X	X	X	X	X	X		X					X	X	X			
MCT 1.3.4.2 Conduct Air Refueling	X		X		X	X	X			X			X		X	X	X		
MCT 1.3.4.2.1 Provide Aviation Delivered Ground Refueling	X										X								
MCT 4.3.4 Conduct Air Delivery	X		X		X	X	X					X	X		X	X		X	
CORE PLUS																			
MCT 1.3.4.3 Provide Aviation Delivered Battlefield Illumination	X						X								X	X			X

106. VMGR CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS. The CMMR is the optimum number of aircrew to execute each stage of flight as detailed below. The numbers associated with each crew position column reflect the number of proficient aircrew required.

KC-130J CORE MODEL MINIMUM REQUIREMENT (CMMR) 15 PLANE SQUADRON				
CORE SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (H)	30	15	15	30
LRN	30	15	15	30
TN	22	11	11	22
LAT	10	5	5	10
SEC FORM	22	N/A	N/A	N/A
DIV FORM	10	N/A	N/A	N/A
IR TR	30	15	15	30
MISSION SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
ALZ	16	8	8	16
CPL	N/A	N/A	21	21
AAR	30	15	30	45
RGR	16	24		24
AD	10	5	10	15
CORE PLUS SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (L)	8	4	8	12
TN	8	N/A	N/A	N/A
RF TR	8	N/A	N/A	N/A
DT	6	3	3	6
AAR	10	N/A	N/A	N/A
AD	6	N/A	6	6
MISSION PLUS SKILL	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
BI	10	5	15	20

* During transition from LM and CC to CM, any LM or CC can substitute a CM number; not to exceed the quantity in the CC or LM column.

KC-130J CORE MODEL MINIMUM REQUIREMENT (CMMR) 12 PLANE DETACHMENT				
CORE SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (H)	24	12	12	24
LRN	24	12	12	24
TN	16	8	8	16
LAT	8	4	4	8
SEC FORM	18	N/A	N/A	N/A
DIV FORM	8	N/A	N/A	N/A
IR TR	24	12	12	24
MISSION SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
ALZ	12	6	6	12
CPL	N/A	N/A	16	16
AAR	24	12	24	36
RGR	12	18		18
AD	8	4	8	12
CORE PLUS SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (L)	6	3	6	9
TN	6	N/A	N/A	N/A
RF TR	6	N/A	N/A	N/A
DT	4	2	2	4
AAR	8	N/A	N/A	N/A
AD	4	N/A	4	4
MISSION PLUS SKILL	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
BI	8	4	12	16

* During transition from LM and CC to CM any LM or CC can substitute a CM number, not to exceed the quantity in the CC or LM column.

KC-130J CORE MODEL MINIMUM REQUIREMENT (CMMR) 9 PLANE DETACHMENT				
CORE SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (H)	18	9	9	18
LRN	18	9	9	18
TN	10	5	5	10
LAT	6	3	3	6
SEC FORM	14	N/A	N/A	*N/A*
DIV FORM	6	N/A	N/A	N/A
IR TR	18	9	9	18
MISSION SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
ALZ	8	4	4	8
CPL	N/A	N/A	11	11
AAR	18	9	18	27
RGR	8	12		12
AD	6	3	6	9
CORE PLUS SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (L)	4	2	4	6
TN	4	N/A	N/A	N/A
RF TR	4	N/A	N/A	N/A
DT	2	1	1	2
AAR	4	N/A	N/A	N/A
AD	2	N/A	2	2
MISSION PLUS SKILL	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
BI	6	3	9	12

* During transition from LM and CC to CM any LM or CC can substitute a CM number, not to exceed the quantity in the CC or LM column.

KC-130J CORE MODEL MINIMUM REQUIREMENT (CMMR) 3 PLANE DETACHMENT				
CORE SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (H)	6	3	3	6
LRN	6	3	3	6
TN	6	3	3	6
LAT	2	1	1	2
SEC FORM	4	N/A	N/A	N/A
DIV FORM	0	N/A	N/A	N/A
IR TR	6	3	3	6
MISSION SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
ALZ	4	2	2	4
CPL	N/A	N/A	5	5
AAR	6	3	6	9
RGR	4	6		6
AD	2	1	2	3
CORE PLUS SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (L)	2	1	2	3
TN	0	N/A	N/A	N/A
RF TR	2	N/A	N/A	N/A
DT	2	1	1	2
AAR	2	N/A	N/A	N/A
AD	2	N/A	2	2
MISSION PLUS SKILL	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
BI	2	1	3	4

* During transition from LM and CC to CM any LM or CC can substitute a CM number, not to exceed the quantity in the CC or LM column.

FRS CORE MODEL MINIMUM REQUIREMENT (CMMR)				
CORE SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (H)	5	3	6	9
LRN	5	3	6	9
TN	5	3	6	9
LAT	5	3	6	9
SEC FORM	3	N/A	N/A	N/A
DIV FORM	2	N/A	N/A	N/A
IR TR	5	3	6	9
MISSION SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
ALZ	5	3	6	9
CPL	N/A	N/A	6	6
AAR	5	3	6	9
RGR	5	3	6	9
AD	5	3	6	9
CORE PLUS SKILLS	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
NS (L)	2	1	1	2
TN	2	N/A	N/A	N/A
RF TR	3	N/A	N/A	N/A
DT	2	1	1	2
AAR	5	N/A	N/A	N/A
AD	5	3	6	9
MISSION PLUS SKILL	**PILOT**	**CREW CHIEF**	**LOAD MASTER**	**CREW MASTER***
BI	5	3	6	9

* During transition from LM and CC to CM any LM or CC can substitute a CM number, not to exceed the quantity in the CC or LM column.

107. VMGR READINESS REPORTING. The paragraphs and tables below delineate the minimum aircrew qualifications and designations required to contribute to unit readiness. Chapter 7 of the Aviation T&R Program Manual provides additional guidance and a detailed description of readiness reporting using the Defense Readiness Reporting System – Marine Corps (DRRS-MC) and the Current Readiness program.

1. Combat Leadership requirements for readiness reporting are per paragraph 109.1.

2. Crew requirements for specific missions may be balanced by the experience level of the crew and are at the discretion of the commanding officer. For readiness reporting purposes, the table delineates the minimum crew definition qualifications and designations as well as the number of crews required per MET. Designated instructors may be used to offset specific training deficits when forming crews for readiness reporting. The number of crews formed, using the below minimum standards per crew, capture the readiness capability of a squadron to perform the MET sortie under all light levels and will be compared to the CMMR requirement for crews when reporting readiness.

KC-130J MINIMUM CREW QUALIFICATIONS / DESIGNATIONS REQUIRED FOR MET CAPABILITY							
CORE METS	**CREW POSITION**			**CREWS REQUIRED PER MET (CREW CMMR)**			
MCT	PILOT	COPILOT	CM*	**SQD**	**DET 12**	**DET 9**	**DET 3**
1.3.3.3.2 (ALZ)	MSP, TPC	MSP	3 x MSP	8	6	4	2
1.3.4.1 (CPL)	N/A	N/A	2 x MSP	21	16	11	5
1.3.4.2 (AAR)	MSP, TPC	MSP	3 x MSP	15	12	9	3
1.3.4.2.1 (RGR)	MSP, TPC	MSP	3 x MSP**	8	6	4	2
4.3.4 (AD)	MSP, TPC	MSP	3 x MSP	5	4	3	1
CORE PLUS METS				**SQD**	**DET 12**	**DET 9**	**DET 3**
1.3.4.3 (BI)	MSP, TPC	MSP	4 x MSP***	5	4	3	1

* A CC/LM may replace a CM during the Crew Master transition.
** One Crew Master shall be a Refueling Supervisor.
*** One Crew Master shall be a Quality Assurance Safety Officer.

108. INSTRUCTOR REQUIREMENTS. A VMGR unit should possess the following numbers of aircrew with the instructor designations listed in the matrix. NSLAT and DT instructors are resident within the MAWTS-1 KC-130 Division.

INSTRUCTOR REQUIREMENTS (5000 PHASE)										
	PILOT					CREW MASTER*				
	AIRCRAFT					AIRCRAFT				
DESIGNATION	15	12	9	3	FRS	15	12	9	3	FRS
NI/ANI	5	4	3	1	4	10	8	6	2	2
FRSI	3	3	0	0	5	N/A	N/A	N/A	N/A	N/A
NSI	5	4	3	1	2	10	8	6	2	2
LATI	5	4	3	1	2	N/A	N/A	N/A	N/A	N/A
NSLATI	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A
DTI	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A
FLSE	2	2	1	0	2	N/A	N/A	N/A	N/A	N/A
WTI	2	2	1	1	0	N/A	N/A	N/A	N/A	N/A
CCI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LMI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CPLI	N/A	N/A	N/A	N/A	N/A	12	10	8	1	6
FAMI	N/A	N/A	N/A	N/A	N/A	12	10	8	1	6
PCI	N/A	N/A	N/A	N/A	N/A	12	10	8	1	6
ADI	N/A	N/A	N/A	N/A	N/A	7	6	5	1	6

*CM - During the transition from LM/CC to CM - any LM/CC NI/ANI and NSI can substitute a CM NI/ANI or NSI number, not to exceed the quantity in the CC or LM quantity. Any LMI may count towards the CPLI instructor requirements, any LMI or CCI may count towards the FAMI instructor requirements, any CCI may count towards the PCI instructor requirements, and any LMI may count against the ADI instructor requirements.

INSTRUCTOR REQUIREMENTS (5000 PHASE)										
	CREW CHIEF					LOADMASTER				
	AIRCRAFT					AIRCRAFT				
DESIGNATION	15	12	9	3	FRS	15	12	9	3	FRS
NI/ANI	5	4	3	1	1	5	4	3	1	1
FRSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NSI	5	4	3	1	1	5	4	3	1	1
LATI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NSLATI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DTI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FLSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTI	N/A	N/A	N/A	N/A	N/A	5	4	3	1	0
CCI	7	6	5	1	3	N/A	N/A	N/A	N/A	N/A
LMI	N/A	N/A	N/A	N/A	N/A	7	6	5	1	6
CPLI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FAMI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

109. VMGR QUALIFICATIONS AND DESIGNATIONS

1. CMMR Combat Leadership Requirements. At a minimum, in order to be considered Core Competent, a VMGR unit must possess the following number of listed combat leadership designations.

VMGR CMMR COMBAT LEADERSHIP REQUIREMENTS(6000 PHASE)				
DESIGNATIONS	**15 AIRCRAFT**	**12 AIRCRAFT**	**9 AIRCRAFT**	**3 AIRCRAFT**
TPC	23	18	13	5
SEC LDR	10	8	6	2
DIV LDR	5	4	3	1
TAC RAC	7	6	5	1
STRAT RAC	4	3	2	1
QASO	5	4	3	1
RS	8	6	4	2

2. Qualifications and Designations

VMGR CMMR QUALIFICATIONS (6000 PHASE)				
QUALIFICATIONS	**15 Aircraft**	**12 Aircraft**	**9 Aircraft**	**3 Aircraft**
FCF (Pilot)	5	4	3	1
FCF (Crew Master)*	5	4	3	1

* May be substituted with a CC who is FCF qualified.

3. FRS Qualifications and Designations

VMGR FRS FLIGHT LEADERSHIP (6000 PHASE)	
DESIGNATIONS	**PILOTS**
TPC	5
SEC LDR	3
DIV LDR	2

110. VMGR ORDNANCE REQUIREMENTS. See KC-130J CCRM (Ordnance Module) for specific squadron requirements.

111. VMGR EVENT REQUIREMENTS

1. Device Options

Code	Requirement
A	Event performed in aircraft.
S	Event performed in simulator or a simulated practical application.
A/S	Event performed in aircraft preferred/simulator optional.
S/A	Event performed in simulator preferred/aircraft optional.
TEN	Tactical Environment Network.

2. Event Conditions

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

3. All flights annotated with an “E” shall be evaluated per NAVMC 3500.14.

4. Minimum required Refresher flights are indicated with an “R”. Additional guidance concerning Refresher pilots is contained in NAVMC 3500.14.

5. The intent of NS events is to conduct the events with use of NVDs. This should not restrict aircrews from executing events between sunset and end of nautical twilight or beginning of nautical twilight and sunrise when NVDs are less effective. Use of NVDs during these periods shall be at the discretion of the aircraft commander with safety and the NS intent in mind.

6. For NS(H) operations, the fixed-wing minimum altitudes delineated in NAVMC 3500.14 shall be adhered to in all phases of flight except for ALZ operations and airdrops from IP inbound, at which point a descent to airdrop altitude or final approach procedure may be conducted. Minimum altitudes for Air Delivery and ALZ operations shall be as per the appropriate KC-130 ANTTP.

112. VMGR AIRCREW TRAINING REFERENCES. The following references shall be utilized to ensure safe and standardized training procedures, grading criteria, and aircraft operation:

Federal Aviation Regulations/Aeronautical Information Manual (FAR/AIM)
OPNAVINST 3710.7 NATOPS General Flight and Operating Instructions
OPNAVINST 1542.7 Crew Resource Management Program
NAVMC 3500.14 Aviation Training and Readiness Program Manual
NATOPS Flight Manuals (NFM)
NAVAIR 00-80T-112 NATOPS Instrument Flight Manual
NTRP 3-22.2-KC-130 (Secret)
NTRP 3-22.4-KC-130
ANTTP 3-22.1-KC-130 (Secret)
ANTTP 3-22.3-KC-130
MAWTS-1 KC-130J Course Catalog
MCO 3500.109 USMC Aviation Weapons and Tactics Training Program
MAWTS-1 TACAIR NVD Manual
MCRP 3-25 Multi-Service Brevity Codes
AFI 13-217 Drop Zone and Landing Zone Operations
AFI 11-231 Computed Air Release Point Procedures
Allied Tactical Publication – 56(B) Air to Air Refueling
ATU Courseware, CBTs and Student Guides

113. TRAINING EVENT PERFORMANCE REQUIREMENTS

1. Purpose. To familiarize the student with general syllabus expectations, definitions, and the observation scale found on the aircrew training form (ATF).

2. General

a. This Manual generalizes mission guidance to allow for local conditions and to allow this Manual to remain unclassified. HQMC (DC AVN) and CG MCCDC encourage squadrons to use the full range of tactics contained in the tactical manuals and adopt the latest developed and proven tactics.

b. The 1000 Phase includes all emergencies that are indicated with warnings, all emergency procedures with critical memory items, those with associated warnings, land as soon as practical or land as soon as possible emergencies, and those that refer to any of the above. Aircrew will be expected to memorize critical memory items and warnings associated with emergency procedures. They will be familiar with and be able to quickly look up other (non-memory) emergency procedures and their notes and cautions. To reinforce the latter, during flight briefs, aircrew will open PCLs to the appropriate page to review notes, cautions, and other non-memory items.

c. Aircrew shall be familiar with, but will not be required to memorize numerical system limitations for those systems whose indications are displayed with a green, yellow or red scale on a HDD.

d. All flights shall terminate with a comprehensive debrief with emphasis on aircrew performance and procedures or systems discussed. Instructors should use all available debriefing techniques.

e. Definitions

(1) Discuss

(a) The instructor shall discuss a system, procedure, or maneuver during the brief, in flight, or debrief.

(b) The student shall demonstrate an understanding of all discussed items listed in the event description.

(c) Demonstrate/Introduce flight events shall be discussed during the brief.

(d) Emergencies listed in the event description are treated as discussion items during the brief and may be simulated during the flight at the option of the instructor and in accordance with unit SOP. EPs for Simulator events will be treated as Demonstrate/Introduce items on the event in which they are listed and are subject to review during any subsequent event.

(2) Demonstrate

(a) Instructor performs the maneuver with accompanying description. At instructor discretion, the aircrew may perform the maneuver, but is not graded. Playback of recorded demonstrations may be used during simulator events.

(b) The student observes the maneuver and is responsible for knowledge of the procedures during the brief.

(3) Introduce

(a) At his option, the instructor may perform the maneuver with an accompanying description followed by the student conducting the maneuver, or he may instruct the student through the maneuver without demonstration.

(b) The student shall perform the maneuver with instruction as necessary and is responsible for knowledge of the procedures prior to the flight. In general, the expectation is that the student will not consistently recognize errors and will frequently be outside performance standards.

(4) Review

(a) The instructor observes and grades the maneuver with only minimal instruction.

(b) The student is expected to perform the maneuver with minimal instruction and with only minor procedural errors. In general, the expectation is that the student will consistently recognize errors; however corrections may not be timely and there may be some excursions outside performance standards.

(5) Evaluate

(a) The instructor observes and grades the maneuver without instructing the student. An airborne critique of the student's performance is at the option of the instructor.

(b) The student is expected to perform the maneuver without instruction, with minor or no procedural errors, and at a level acceptable to warrant progress in the syllabus. The expectation is that the student will consistently apply timely corrections with very few and quickly corrected excursions outside performance standards.

(6) Expose

(a) The instructor shall expose the student to the procedure or consideration during the brief, in flight or debrief.

(b) The student is not responsible for the knowledge of the procedure or consideration prior to the flight.

f. Observation Scale. The following table describes the numerical observations assigned for graded events. The comments that relate to each score are designed to assist instructors in assigning the correct observation based upon a student's demonstrated performance.

Observation Scale				
Observation	Level of Learning	General	Training as an Individual	Training as a Crew Member*
5	Correlation	Proactive. Ahead of the situation. Reacts correctly with changing conditions. And/or changing mission.	Performance is correct, efficient and skillful. Deviations are very minor. The student initiates corrections, if required, and they are appropriate, smooth, and rapid.	Proactive management of resources in dynamic environment. Mission effectiveness and safety enhanced by planning and coordination.
4	Application	Self/crew recognition of errors. Correct application of resources.	Self-Assess and corrects errors in time. Deviations are brief and minor. Corrections are appropriate and timely.	Active Management. Recognize and Correct Errors. Maintain crew redundancy to improve mission effectiveness and reduce risk.
3	Understanding	Minor errors not detected. Crew redundancy diminished.	Errors not detected and/or corrected in a timely manner. Corrections noticeably lag deviations.	Minor errors not detected and/or corrected. Risk unchanged.
2	Rote	Task accomplished mechanically and/or with limited situational awareness. Crew redundancy lost. Risk Increased.	Errors not recognized and/or corrected.	Errors not recognized and/or corrected.
1	Unfamiliar	Unable.	Skills not up to task.	Skills not up to task.
*The instructor must consider, based on their current performance, how well could they handle an unexpected increase in task loading, cumulative conditions, or crew factors?				

CHAPTER 2

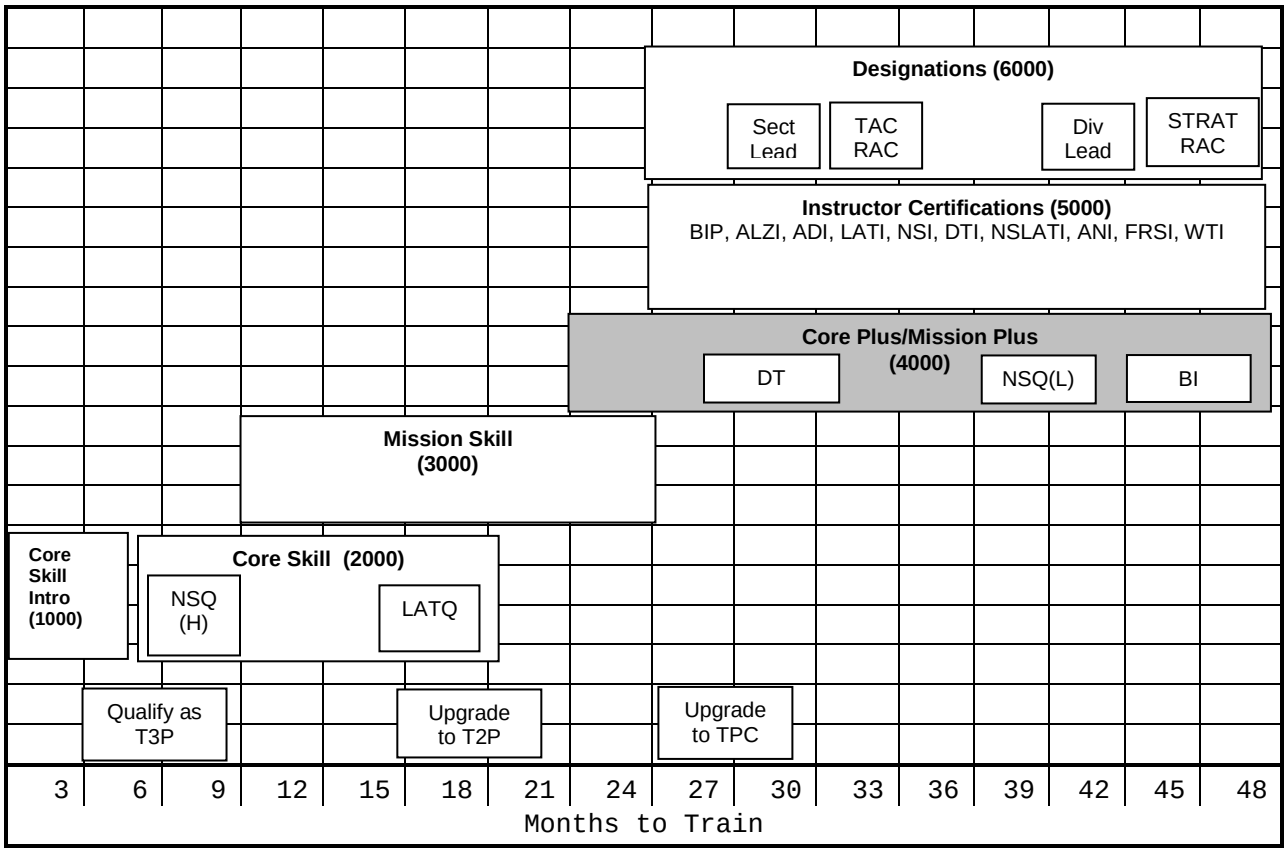
KC-130J PILOT (MOS 7556/7557)

CHAPTER 2

KC-130J PILOT MOS 7556/7557

200. KC-130J PILOT 7556/7557 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R Syllabus is based on specific goals and performance standard designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

201. KC-130J PILOT TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average KC-130J Pilot. Units should use the model as a point of departure to generate individual training plans.



202. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. A CSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual CSP. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated in the below paragraphs.

1. Events Required to Attain Individual CSP. To initially attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) ATTAIN TABLE KC-130J Pilot 7557/7556						
T&R events required to Attain CSP (2000 Phase)						
NS(H)	**LRN**	**TN**	**LAT**	**SEC FORM**	**DIV FORM**	**TR**
2150R	2160	2200R	S2260	2300R	2301R	2400R
2151R	2161	2201R	2261R	2350R		
	2162R	2250R				
		2251R				
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

2. Events Required to Maintain Individual CSP. To maintain CSP in a Core Skill, an individual must maintain proficiency in all 2000 phase T&R events listed for that Core Skill:

NOTE

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

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) MAINTAIN TABLE KC-130J Pilot 7557/7556						
T&R events required to Maintain CSP (2000 Phase)						
NS(H)	**LRN**	**TN**	**LAT**	**SEC FORM**	**DIV FORM**	**TR**
2151R	2162R	2251R	2261R	2350R	2301R	2400R
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

203. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. A MSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual MSP. To be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated in the below paragraphs.

1. Events Required to Attain Individual MSP. To initially attain MSP in a Mission Skill, an individual must simultaneously have a proficient status in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE KC-130J Pilot 7557/7556				
T&R events required to Attain MSP (3000 Phase)				
ALZ	**CPL**	**AAR**	**RGR**	**AD**
3500R		3600R	3660R	S3700
3501R		3601R		S3701
3502R		3650R		3702R
3503R				3703R
3550R				3704R
				3705R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

2. Events Required to Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 phase T&R events listed for that Mission Skill:

NOTE

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

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE KC-130J Pilot 7557/7556				
T&R events required to Maintain MSP (3000 Phase)				
ALZ	**CPL**	**AAR**	**RGR**	**AD**
3501R		3600R	3660R	3702R
3502R		3650R		3703R
3550R				3704R
				3705R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

3. Events Required to Attain Individual Proficiency in Core Plus / Mission Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus Skills is at the discretion of the unit commanding officer. To initially attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events listed for that Core Plus Skill:

INDIVIDUAL CORE PLUS SKILL PROFICIENCY ATTAIN TABLE KC-130J Pilot 7557/7556						
T&R events required to Attain Core Plus Proficiency (4000 Phase)						
CORE PLUS SKILLS						**MISSION PLUS**
TN	**NS(L)**	**TR**	**DT**	**AAR**	**AD**	**BI**
4200R	S4250R	S4400	4410R	S4600R	4700R	4710R
	4251R	4401R	4411R		4701R	
					4702R	
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

4. Events Required to Maintain Individual Proficiency in Core Plus / Mission Plus Skills. To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

NOTE

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

INDIVIDUAL CORE PLUS SKILL PROFICIENCY MAINTAIN TABLE KC-130J Pilot 7557/7556						
T&R events required to Maintain Core Plus Proficiency (4000 Phase)						
CORE PLUS SKILLS						MISSION PLUS
TN	NS(L)	TR	DT	AAR	AD	BI
4200R	4251R	4401R	4410R 4411R	S4600R	4700R 4701R 4702R	4710R
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

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

INDIVIDUAL QUALIFICATION REQUIREMENTS	
Qualification	**Event Requirements**
LEFT SEAT QUAL	IAW command specific directives.
NSQ(H)	NS(H)-2150, NS(H)-2151, TN-2250, TN-2251, 10 hours total NVD time (minimum 5 hours LLL).
NSQ(L)	NS(L)-4250, NS(L)-4251, NSQ(H), and LATQ.
LATQ	LAT-2260 and LAT-2261.
DTQ	TR-2400, DT-4410, DT-4411, and LATQ.

INDIVIDUAL DESIGNATION REQUIREMENTS	
Designation	**Event Requirements**
T3P	NTPS-6010, NTPS-6011, NTPS-6012, NTPS-6110 and Core Skill Introduction Phase Complete.
T2P	NTPS-6010, NTPS-6011, NTPS-6012, NTPS-6013, NTPS-6111, ACPM-82XX Phase complete and IAW NATOPS and command specific directives.
TPC	NTPS-6010, NTPS-6011, NTPS-6012, NTPS-6112 through NTPS-6118, Core Skill and Mission Skill Phases should be complete, ACPM 83XX Phase Complete and IAW NATOPS and command specific directives.
Standard Instrument	INST-6030, INST-6031, INST-6130, and IAW OPNAVINST 3710.7_.
Special Instrument	INST-6030, INST-6031, INST-6131, and IAW OPNAVINST 3710.7_.
Instrument Flight Board Member	INST-6130, and either ANI, NI, GNE or NE.
BIP	TN-2200, TN-2201, AAR–3600, AAR-3601, AAR-3650, RGR-3660, NSQ(H), LATQ, BIP-6100, BIP-6101 and 100 TPC hours in series.

PARTIAL FCP	FCP-6005, FCP-6105 and IAW OPNAVINST 4790 and command specific directives.
FCP	FCP-6106, with 150 TPC hrs in series, a minimum 3 FCFs (2 "A" Profiles), and IAW OPNAVINST 4790 and command specific directives.
ANI/NI/GNE	NI-5140 and NI-5141. NI requires certification by the Group NATOPS Evaluator or Model Manager. GNE is designated by the group commanding officer.
FRSI	NI-5141, FRSI-5145, FRSI-5146, and FRSI-5147.
NSI	BIP, NS(H)-5150, NS(H)-5151, NS(H)-5152 and 100 hours total NVD time (minimum 50 hours LLL). Refer to MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a NSI by the commanding officer.
LATI	TR-2400, TR-4400, LAT-5210, LAT-5211, LAT-5212, BIP, and LATQ. Refer to MAWTS-1 KC-130J Course Catalog.
NSLATI	NSI, WTI, NS(L)-5250, and NS(L)-5251. Refer to MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a NSLATI by the commanding officer.
SEC LEAD	Mission Skill Phase should be complete, NSQ(H), 100 TPC hours, Minimum 2 flights as TPC/Wingman, SL-6300, SL-6301, and Section Lead Academics complete.
DIV LEAD	200 TPC hours, 2 flights as a designated SL, DL-6303, DL-6304, and Division Lead Academics complete.
TACTICAL RAC	RAC-6310, RAC-6311, TACRAC Academics complete, evaluation flight may flown in conjunction with SL-6300 or SL-6301, the commanding officer may designate the pilot a Tactical RAC after or in conjunction with designation as SL.
STRATEGIC RAC	Division Lead, TACRAC, RAC-6313, RAC-6314, and STRATRAC Academics complete.
FLSE	Division Lead, FLSE-5320, and a designation letter signed by the group commanding officer. FLSE requires certification by the program coordinator.
DTI	LATQ, DTQ, DT-5410, DT-5411, and DT-5412. Refer to MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a DTI by the commanding officer.
ALZI	ALZ-3500, ALZ-3501, ALZ-3502, ALZ-3503, ALZ-3550, ALZ-5500, BIP, and either ANI/NI or NSI.
ADI	BIP, AD-3702, AD-3703, AD-3704, AD-3705, BI-4710, AD-5700, AD-5701 and either AD-4700, AD-4701, or AD-4702.
WTI	Refer to MAWTS-1 WTI Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a WTI by the commanding officer.

205. PROGRAMS OF INSTRUCTION (POI)

1. Basic/Transition (B/T) POI. The Transition POI mirrors the Basic POI.

WEEKS	COURSE	PERFORMING ACTIVITY
1-18	Core Skill Introduction Training	USMC KC-130J ATU
19	Core Skill Introduction Training	Tactical Squadron
20-81	Core Skill Training	Tactical Squadron
82-156	Mission Skill Training	Tactical Squadron
157-181	Core Plus Skill Training	Tactical Squadron

2. Series Conversion (SC) POI

WEEKS	COURSE	PERFORMING ACTIVITY
1-16	Core Skill Introduction Training	USMC KC-130J ATU
17	Core Skill Introduction Training	Tactical Squadron
18-57	Core Skill Training	Tactical Squadron
58-82	Mission Skill Training	Tactical Squadron
83-107	Core Plus Skill Training	Tactical Squadron

3. Modified Refresher/Refresher (MR/R) POI. The MR POI mirrors the R POI.

WEEKS	COURSE	PERFORMING ACTIVITY
1-3	Core Skill Introduction Training	USMC KC-130J ATU
4	Core Skill Introduction Training	Tactical Squadron
5-34	Core Skill Training	Tactical Squadron
35-39	Mission Skill Training	Tactical Squadron
40-50	Core Plus Skill Training	Tactical Squadron

4. Fleet Replacement Squadron and NATOPS/Assistant NATOPS POI

WEEKS	COURSE	PERFORMING ACTIVITY
1	NATOPS/Assistant NATOPS Instructor	Tactical Squadron
1	Fleet Replacement Squadron Instructor	Tactical Squadron

5. Basic Instructor Pilot and Stage Instructor POI

WEEKS	COURSE	PERFORMING ACTIVITY
2	Basic Instructor Pilot	Tactical Squadron
1	Assault Landing Zone Stage	Tactical Squadron
1	Air Delivery Stage	Tactical Squadron

6. MAWTS-1 Level Instructor POI

WEEKS	COURSE	PERFORMING ACTIVITY
1	Night Systems Instructor	MAWTS-1
1	Low Altitude Tactics Instructor	Tactical Squadron
1	Night Systems LAT Instructor	MAWTS-1
1	Defensive Tactics Instructor	MAWTS-1
7	Weapons and Tactics Instructor	MAWTS-1

7. Flight Leadership POI

WEEKS	COURSE	PERFORMING ACTIVITY
1	Section Leader	Tactical Squadron
1	Division Leader	Tactical Squadron
1	Tactical Refueling Area Commander	Tactical Squadron
1	Strategic Refueling Area Commander	Tactical Squadron
1	Flight Leadership Standardization Evaluator	Group Designated

206. ACADEMIC TRAINING

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

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

COURSE	ACTIVITY
Survival, Evasion, Resistance, and Escape (SERE) Course	NAS Brunswick ME NAS North Island CA
NITE lab	Any Approved Course
Weapons and Tactics Instructor (WTI)	MAWTS-1
Environmental Survival Courses	Regional/Seasonal Survival Schools
Advanced Airlift Tactics Training Course (AATTC)	AATTC, St. Joseph MO
Combat Aircrew Training	MAC CATS, Nellis AFB
Pilot Instructor Course (PIN3)	USAF JMATS, Little Rock AFB
Basic Instructor Training Course (BITC)	Local MATSS

207. CORE SKILL INTRODUCTION PHASE (1000)

1. General. Upon completion of this phase of training, the pilot will be a NATOPS qualified pilot, MOS designated 7556. The pilot will be capable of basic aircraft operation to include instrument flight, normal and emergency procedures, Crew Resource Management, and computer-based mission planning. This phase also introduces tactical flight operations. Any code not required for a particular Program of Instruction (POI)(SC,R) shall not be considered a prerequisite for progression to the next syllabus event. Pilots will brief for 1.5 hours prior to all CPT and FAM simulator events and debrief for .5 hours following. Pilots will brief for 2.5 hours prior to all other simulator events and debrief for .5 hours following.

a. Stages. CPT, FAM, NS(H), LRN, TN, FORM, TR, ALZ, AAR, and AD.

b. Crew Requirements. Events conducted in the simulator require either a Fleet Replacement Squadron Instructor (FRSI) or Contract Instructor (CI) with the required designations. Events that are conducted in the aircraft shall be with an FRSI with the required designations.

c. The KC-130J Model Manager shall be responsible for Core Skill Introduction Phase standardization. Tactical Squadrons shall maintain qualified FRSIs in order to conduct 1000 phase training in accordance with NAVMC 3500.14.

d. KC-130J CIs represent varying aviation backgrounds and experience levels and shall be qualified in accordance with para 11.1, section 211 of this Manual prior to administering the Core Skill Introduction syllabus.

e. Instructors shall be responsible for mission briefs. Students may conduct a mission brief only after observing the instructor brief a mission in that specific stage.

2. Cockpit Procedures Training (CPT)

a. Purpose. To familiarize the pilot with the cockpit and aircraft systems; NATOPS normal flows, procedures, and checklists; and emergency procedures and checklists.

b. General. In the event of WST nonavailability, events should be conducted in the aircraft.

c. Academic/Ground Training. ATU approved ground training curriculum.

CPT-1100 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to normal cockpit checklist procedures and the aircraft lighting and oxygen system.

Requirement. The flight will introduce the KC-130J cockpit environment. The instructor will discuss and introduce aircraft seats, parking brakes, lighting, oxygen system, and normal checklist procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with the general cockpit environment.
2) Using Chapter 7 of the NFM as a reference, be able to follow the instructor through an overview demonstration of each of the basic cockpit triggers, flows, checklists and procedures.
3) Demonstrate the ability to identify basic facts, terms and procedures associated with performing cockpit flows and checklists.

Prerequisite. ATU approved ground training curriculum.

References. NFM.

CPT-1101 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to cockpit systems and instrument panels, CNI-MU and CNBP, and basic data entry.

Requirement. The flight will introduce basic Communication/Navigation/Identification-Management System (CNI-MS) and Communication Navigation Breaker Panel (CNBP) operations. The instructor will discuss and introduce CNI-MS and CNBP operations. The student will practice normal checklist procedures.

Performance Standards
1) Demonstrate the ability to follow the instructor through an introduction of basic CNI-MU and CNBP operations.
2) Identify basic facts, terms and procedures associated with the CNI-MU and the CNBP.
3) With assistance from the instructor and reference to the NFM, perform basic cockpit flows and checklist procedures.

Prerequisite. CPT-1100 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1102 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to radio tuning and navigation alignment procedures.

Requirement. The flight will introduce radio tuning and navigation alignment procedures. The instructor will discuss and introduce aircraft communication and navigation radio systems. The student will practice normal checklist procedures. Review Items: CNI-MS initialization and CNBP operations.

Performance Standards
1) Demonstrate the ability to follow the instructor through an introduction of radio tuning and navigation alignment procedures using the CNI-MU and CNBP.
2) Identify basic facts, terms and procedures associated with radio and NAVAID tuning.
3) Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to the NFM.

Prerequisite. CPT-1101 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1103 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to AMU and HDD operations.

Requirement. The flight will introduce Avionics Management Unit (AMU) and Heads Down Display (HDD) operations. The instructor will discuss and introduce AMU, HDD, aircraft soft panels, and designated avionics systems. The student will practice normal checklist procedures and CNI-MS operations. Review: CNBP operations.

Performance Standards
1) Demonstrate the ability to follow the instructor through an introduction to the AMU and HDDs design and operations.
2) Identify basic facts, terms and procedures associated with the AMU and HDDs.
3) Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to the NFM.

Prerequisite. CPT-1102 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1104 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to HUD operations.

Requirement. The flight will introduce Heads Up Display (HUD) operations. The instructor will discuss and introduce HUDs. The student will practice normal checklist procedures and CNI-MS operations. Review Items: AMU, HDD, aircraft soft panels, and designated avionics systems.

Performance Standards
1) Demonstrate the ability to follow the instructor through an introduction to HUD operations and identify associated basic facts, terms and procedures.
2) Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to the NFM.

Prerequisite. CPT-1103 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1105 3.0 * B,SC 1 WST/KC-130J S/A D

Goal. Introduce flight plan entry, monitoring, and modification.

Requirement. The flight will emphasize flight route entry, monitoring, and modification via the CNI-MS. The instructor will discuss and introduce CNI-MS flight plan operations including airspace/airways navigation and holding. The student will practice normal checklist procedures. Review Item: HUD.

Performance Standards
1) Demonstrate the ability to follow the instructor through an introduction to flight plan entry, monitoring, and modification procedures.

2) Identify basic facts, terms and procedures associated with CNI-MU flight plan programming and manipulation.

3) Demonstrate the ability to complete basic cockpit flows and checklist procedures with limited instructor intervention and limited reference to the NFM.

Prerequisite. CPT-1104 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1106 3.0 * B,SC 1 WST S D

Goal. Introduce the pilot to additional instrument flight functions and CNI-MS recovery procedures.

Requirement. The flight will emphasize CNI-MS arrival procedures. The instructor will discuss and introduce Standard Terminal Arrival (STAR), high altitude penetration programming, and CNI-MS malfunctions. The student will practice normal checklist procedures. Review Item: Overall CNI-MS operations.

Performance Standards
1) Demonstrate a basic level of familiarity with the procedures for programming STARs into the CNI-MU, CNI-MS recovery procedures, and CNI-SP failure procedures.
2) Demonstrate the ability to complete basic cockpit flows and checklist procedures with limited instructor intervention and limited reference to the NFM.

Prerequisite. CPT-1105 and ATU approved ground training curriculum.

References. NFM and CNI Manual.

CPT-1107 3.0 * B,SC,R 1 WST/KC-130J S/A D

Goal. Practice normal checklist procedures. Introduce emergency checklist procedures. Introduce fuel, APU, engine systems, and related emergencies.

Requirement. The flight will introduce fuel, APU, and engine systems operations. The instructor will discuss and introduce fuel, APU, and engine systems operations, and designated emergency procedures. Auxiliary/External transfer pump failures: A minimum of one auxiliary transfer pump failure and one external transfer pump failure will be performed. The student will practice normal checklist procedures. Review Items: Interior Inspection and Power Up Checks.

Performance Standards
1) Demonstrate a basic level of familiarity with fuel, APU, and engine system operations and emergency procedures.
2) Identify basic facts, terms and operating procedures associated with each introduced system.
3) Complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to the NFM.

Prerequisite. CPT-1106 and ATU approved ground training curriculum.

References. NFM.

CPT-1108 3.0 * B,SC,R 1 WST/KC-130J S/A D

Goal. Practice normal and emergency checklist procedures. Introduce propulsion and hydraulic systems and related emergencies.

Requirement. The instructor will discuss and introduce propeller and hydraulic systems operations, designated

emergency procedures, and touch and go procedures. The student will practice normal checklist procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with propulsion and hydraulic system operations and emergency procedures.
2) Identify basic facts, terms and operating procedures associated with each introduced system.
3) Demonstrate the ability to complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to the NFM.

Prerequisite. CPT-1107 and ATU approved ground training curriculum.

References. NFM.

CPT-1109	3.0	*	B,SC,R	1 WST/KC-130J	S/A	D

Goal. Practice normal and emergency checklist procedures. Introduce electrical system and related emergencies. Introduce BIU backup mode operations.

Requirement. The instructor will discuss and introduce electrical system operations and designated emergency procedures. The student will practice normal checklist and touch and go procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with electrical system operations, electrical system emergency procedures, and BIU backup mode operations.
2) Identify basic facts, terms and operating procedures associated with each introduced system.
3) Demonstrate the ability to complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to the NFM.

Prerequisite. CPT-1108 and ATU approved ground training curriculum.

References. NFM.

CPT-1110	3.0	*	B,SC,R	1 WST/KC-130J	S/A	D

Goal. Practice normal and emergency checklist procedures. Introduce bleed air, environmental, and ice protection systems and related emergencies.

Requirement. The instructor will discuss and introduce bleed air, environmental, and ice protection systems operation and designated emergencies. Bleed air emergency procedures: A minimum of one Wing Bleed Air Leak (or not isolated), one Cross-Ship Bleed Air Leak (or not isolated), one Underfloor Bleed Air Leak (or not isolated), and one Nacelle Bleed Air Leak (or not isolated) will be performed. The student will practice normal checklist and touch and go procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with the bleed air, environmental control, and ice protection systems and related emergencies.
2) Identify basic facts, terms and procedures associated with each introduced system.
3) Complete basic cockpit flows and checklist procedures without instructor intervention and with limited reference to the NFM.

Prerequisite. CPT-1109 and ATU approved ground training curriculum.

References. NFM.

CPT-1111	3.0	*	B,T,SC,R,MR	1 WST/KC-130J	S/A	D

Goal. Review normal checklist procedures. Introduce autoflight and flight control systems and related emergencies. Introduce fuel management procedures. Practice selected emergency procedures.

Requirement. The instructor will discuss and introduce flight control and Automatic Flight Control System (AFCS) operations and fuel management procedures. The student will practice touch and go procedures. Review normal checklist procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with the flight control systems, the Automatic Flight Control System (AFCS), fuel management procedures, and related emergency procedures.
2) Identify basic facts, terms and operating procedures associated with each introduced system.
3) Complete all basic cockpit flows and checklist procedures without instructor intervention or reference to the NFM.

Prerequisite. CPT-1110 and ATU approved ground training curriculum.

References. NFM.

3. Familiarization (FAM)

a. Purpose. Introduce the pilot to Familiarization Core Introduction skills. Upon completion of this stage, the pilot will be proficient in the use of cockpit controls, aircraft systems, selected aircraft maneuvers, and execution of NATOPS normal and emergency checklists and procedures.

b. General. Pilots in the Basic, and Series Conversion POIs shall fly a minimum of two simulator flights under night conditions. Students will brief for 1.5 hours prior to all WST events and debrief for .5 hours following.

c. Academic/Ground Training. ATU approved ground training curriculum. Review NFM, NATOPS flight manual (NFM) supplements, FAR/AIM, and appropriate aircraft systems CBT/IBT lessons.

FAM-1112 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Introduce basic KC-130J visual flight maneuvers. Practice and review selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce basic KC-130J visual flight operations. Instruction will concentrate on basic flight maneuvers to include takeoffs, airwork, visual approaches, and landings. The student will practice touch and go procedures, fuel management procedures, and designated emergencies.

Performance Standards
1) Demonstrate a basic level of familiarity with the normal takeoff, climbout, stall recovery, unusual attitude recovery, visual approach, full stop landing and touch and go procedures IAW the NFM.
2) Basic air work standards include +/- 10 KIAS, 200 ft of assigned altitude, 10 degrees of assigned heading, and angle of bank within 10 degrees during steep turns.
3) For approach to stall maneuvers, after the first indication of stall, recover with less than 200 feet loss of altitude.
4) During approach to landing maneuvers, maintain positive control of aircraft speed, power, and rate of descent.
5) Align aircraft with runway, maintain aircraft in trim and touchdown within the first third of the runway. Maintain directional control throughout the flare, touchdown, and rollout.
6) Demonstrate a basic level of familiarity with CRM procedures as established in Chapter 16 of the NFM.

Prerequisite. CPT-1111 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1113 4.0 * B 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J visual flight maneuvers. Introduce and practice selected aircraft maneuvers and emergencies.
Requirement. The flight will emphasize basic KC-130J visual flight operations. The instructor will discuss performance data and designated emergency procedures. The student will practice basic flight maneuvers to include takeoffs, airwork, visual approaches, landings, fuel management, and designated emergency procedures.

Performance Standards
1) In addition to the standards established for FAM-1112 above, demonstrate a working knowledge of and perform Takeoff Abort and Four-Engine Flameout Emergency Procedures IAW the NFM.
2) Demonstrate the ability to conduct fuel management procedures with limited instructor intervention.

Prerequisite. FAM-1112 and ATU approved ground training curriculum.

References. NFM, PERF, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1114 4.0 * B,R 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J visual flight maneuvers. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J visual flight operations. The instructor will discuss and introduce crosswind procedures, flaps up landings, and designated emergency procedures. The student will practice basic flight maneuvers to include takeoffs, visual approaches, landings, fuel management, and designated emergency procedures.

Performance Standard. In addition to the standards established for FAM-1112 and 1113 above, demonstrate a working knowledge of and perform crosswind takeoff and landing procedures, flaps up landings, high speed landings, and selected emergency procedures IAW the NFM.

Prerequisite. FAM-1113 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1115 4.0 * B,SC 1 WST/KC-130J S/A N*

Goal. Develop proficiency in KC-130J night visual flight maneuvers. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce KC-130J night visual flight operations. The instructor will discuss and introduce designated emergency procedures and the Windshear/Ground Collision Avoidance System (GCAS) PULL UP Alert Recovery Procedure. The student will practice basic flight maneuvers to include crosswind takeoffs and landings, visual approaches,

fuel management, and designated emergency procedures. Review Item: Touch and go procedures.

Performance Standards
1) In addition to the standards established for FAM 1112-1114 above, demonstrate a working knowledge of and perform basic visual flight maneuvers during night VMC conditions.
2) Demonstrate competence with touch and go procedures IAW the NFM and without instructor intervention.

Prerequisite. FAM-1114 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1116 4.0 * B,SC,R 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J instrument flight operations. Introduce selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce KC-130J instrument flight operations. The instructor will discuss and introduce Instrument Flight Rules (IFR) mission planning and basic IFR procedures to include takeoffs, unusual attitudes, holding, instrument/missed approaches, and designated emergencies. Review Items: Landings.

Performance Standards
1) Refine basic air work standards include +/- 5 KIAS, 100 ft of assigned altitude, 5 degrees of assigned heading.
2) Demonstrate a working knowledge of and perform an ITO, holding procedures, ILS and NDB approach programming, and perform designated emergencies IAW the NFM.
3) Demonstrate competence with landing procedures IAW the NFM.

Prerequisite. FAM-1115 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1117 4.0 * B,SC 1 WST/KC-130J S/A N*

Goal. Develop proficiency in KC-130J instrument flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J instrument flight operations. The instructor will discuss hot weather operating procedures and discuss/introduce Localizer-Back Course (LOC-BC) procedures, Holding in Lieu of Procedure Turn procedures, and Procedure Track procedures. The student will practice basic IFR procedures to include takeoffs, holding, instrument/missed approaches, and designated emergencies. Review Items: Landings.

Performance Standards
1) In addition to the basic air work standards established in FAM-1116 above, demonstrate a working knowledge of TACAN, VOR, Localizer and Localizer Back Course approach programming.
2) Comply with published holding procedures, missed approach instructions and designated emergencies IAW the NFM.
3) Demonstrate competence with 100% and 50% flap landings and touch and go procedures.

Prerequisite. FAM-1116 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1118 4.0 * B 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J instrument flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J instrument flight operations. The instructor will discuss and introduce radar approaches, circling approaches, reverse taxi, and the wing fire emergency procedure. The student will practice basic IFR procedures to include takeoffs, holding, missed approaches, and designated emergencies. Review Items: Landings.

Performance Standards
1) In addition to the basic air work standards established in FAM-1117 above, demonstrate a working knowledge of reverse taxi operations, PAR, ASR, and circling approach procedures.
2) Do not descend below minimums during instrument approaches.
3) Demonstrate competence with 100%, 50%, and flaps up landings and touch and go procedures.

Prerequisite. FAM-1117 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1119 4.0 * B 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J instrument flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce KC-130J instrument flight en route operations. The instructor will discuss cold weather operating procedures and discuss/introduce Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), Traffic Alert and Collision Avoidance System (TCAS) escape procedures, and designated emergencies. The student will practice basic IFR procedures to include instrument takeoff, instrument approaches, and missed approaches. Review Items: Airspace/Airways navigation and landings.

Performance Standards
1) In addition to the basic air work standards established in FAM-1118 above, demonstrate a working knowledge of Standard Instrument Departure procedures, TCAS operations, and airspace/airways navigation, and selected emergency procedures.
2) Do not descend below minimums during instrument approaches.
3) Demonstrate competence with 100%, 50%, and flaps up landings and touch and go procedures.

Prerequisite. FAM-1118 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, NA 00-80T-112, and AIM.

FAM-1120	4.0	*	B,SC,R	1 WST/KC-130J	S/A	N*

Goal. Develop proficiency in KC-130J instrument flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J instrument flight en route operations. The instructor will discuss and introduce high altitude approach procedures and designated emergencies. The student will practice basic IFR procedures to include takeoff, SID, airspace/airways navigation, CNI-MS programming, and instrument/missed approaches. Review Items: Airspace/Airways navigation and landings.

Performance Standards
1) In addition to the basic air work standards established in FAM-1119 above, demonstrate a working knowledge of penetration approach procedures and selected emergency procedures.
2) Demonstrate competence with basic instrument approach procedures, normal 100% and 50% landings and touch and go procedures.

Prerequisite. FAM-1119 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1121	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Develop proficiency in KC-130J asymmetric flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce KC-130J asymmetric engine configuration operations. The instructor will discuss and introduce engine failures on takeoff, One Engine Inoperative (OEI) approach/landing/go-around procedures, airstarts, and designated emergency procedures. Review Item: Fuel management procedures and instrument takeoffs.

Performance Standards
1) Demonstrate a working knowledge of One-Engine-Inoperative Air Minimum Control Speeds, Engine Failure on Takeoff procedures, Airstart procedures, and approach, landing and go-around procedures with one engine inoperative.
2) Demonstrate competence with basic instrument approach and fuel management procedures.

Prerequisite. FAM-1120 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1122 4.0 * B,SC,R 1 WST S D

Goal. Develop proficiency in KC-130J asymmetric flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J asymmetric engine configuration operations. The instructor will discuss and introduce two engines inoperative approach/landing/go-around procedures. The student will practice instrument approaches, One Engine Inoperative procedures, and designated emergency procedures. Review Items: Fuel management procedures, ITO.

Performance Standards
1) Demonstrate a working knowledge of Two-Engine-Inoperative Air Minimum Control Speeds, fuel dumping, and approach, landing and go-around procedures with two engines inoperative.
2) Demonstrate competence with ITO, basic instrument approach and fuel management procedures.

Prerequisite. FAM-1121 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1123 4.0 * B 1 WST S N*

Goal. Develop proficiency in KC-130J asymmetric flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J asymmetric engine configuration operations. The instructor will discuss and introduce designated emergency procedures. The student will practice instrument approaches, One Engine Inoperative procedures, Two Engines Inoperative procedures, and designated emergency procedures. Review Item: Aborted takeoffs.

Performance Standards
1) Demonstrate a basic level of competence with Aborted Takeoff procedures, one and two engine inoperative procedures in VFR and IFR conditions.
2) Demonstrate CRM IAW the NFM.
Prerequisite. FAM-1122 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1124 4.0 * B,SC 1 WST S D

Goal. Develop proficiency in KC-130J special procedures. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will introduce KC-130J flight manual special procedures. The instructor will discuss and introduce

emergency APU start, engine start without AC electrical power, Automatic Thrust Control System (ATCS) inoperative takeoff, flaps up takeoff, three-engine takeoff, airstarts, and designated emergency procedures. The student will practice a One Engine Inoperative instrument approach and designated emergency procedures. Review Item: Landings.

Performance Standards
1) Demonstrate a basic level of competence with special procedures, (ATCS inoperative takeoff, flaps up takeoff, three engine takeoff).
2) Demonstrate competence in no flap landings and OEI in VFR conditions.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1123 and ATU approved ground training curriculum.

References. NFM.

FAM-1125 4.0 * B,SC 1 WST S D

Goal. Develop proficiency in KC-130J flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J electrical, flap system, and propulsion emergency procedures. The instructor will discuss designated emergency procedures. The student will practice normal and One Engine Inoperative (OEI) instrument/missed approaches and designated emergency procedures. Review Item: Landings and OEI landings/go-arounds.

Performance Standards
1) Demonstrate competence in One-Engine-Inoperative Approaches, missed approaches, and landings in low visibility.
2) Demonstrate No HUD procedures by maintaining altitude within 200 feet, airspeed within 15 KIAS and heading within 15 degrees.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1124 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1126 4.0 * B 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J hydraulic and flight control emergency procedures. The instructor will discuss and introduce designated emergency procedures. The

student will practice instrument/missed approaches and designated emergency procedures. Review Item: Landings.

Performance Standards
1) Demonstrate competence in One-Engine-Inoperative Approaches, missed approaches, and landings in low visibility.
2) Demonstrate proper technique, coordination, and knowledge of handling hydraulic emergencies.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1125 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1127 4.0 * B 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J flight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J landing gear emergency procedures. The instructor will discuss and introduce designated emergency procedures. The student will practice instrument/missed approaches and designated emergency procedures. Review Items: Landings and touch and go procedures.

Performance Standards
1) Demonstrate competence in One-Engine-Inoperative Approaches, missed approaches, and landings in low visibility.
2) Demonstrate proper technique, coordination, and knowledge of handling landing gear malfunctions.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1126 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1128 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Develop proficiency in KC-130J autoflight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J instrument flight en route operations. The instructor will discuss autoflight operations. The student will practice basic IFR procedures assisted by autoflight systems to include SID, airspace/airways navigation, CNI-MS programming, TCAS escape procedures, holding, instrument/missed approaches, and designated emergencies. Review Items: ITO and landings.

Performance Standards
1) Demonstrate competence in the automation pyramid (level of automation used at any specific time being the most appropriate for the situation).
2) Demonstrate competence in One-Engine-Inoperative Approaches, missed approaches, and landings in low visibility.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1127 and ATU approved ground training curriculum.

References. NFM, CNI, OPNAVINST 3710.7, and NA 00-80T-112.

FAM-1129 4.0 * B 1 WST/KC-130J S/A N*

Goal. Develop proficiency in KC-130J autoflight operations. Introduce and practice selected aircraft maneuvers and emergencies.

Requirement. The flight will emphasize KC-130J instrument flight en route operations. The instructor will discuss autoflight operations. The student will practice basic IFR procedures assisted by autoflight systems to include SID, airspace/airways navigation, CNI-MS programming, instrument/missed approaches, and designated emergencies. Review Items: ITO and landings.

Performance Standards
1) Demonstrate competence in the automation pyramid (level of automation used at any specific time being the most appropriate for the situation).
2) Demonstrate competence in One-Engine-Inoperative Approaches (OEI), missed approaches, and landings in low visibility.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1128 and ATU approved ground training curriculum.

References. NFM, OPNAVINST 3710.7, NA 00-80T-112, and AIM.

FAM-1130 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Review selected aircraft maneuvers and emergencies.

Requirement. The flight will review KC-130J flight operations in preparation for the Aircrew Training Unit (ATU) FAM evaluation. The student will review selected visual/instrument maneuvers and designated emergencies.

Performance Standards
1) Demonstrate competence with 100%, 50%, and flaps up landings and touch and go procedures.
2) Demonstrate competence in clearance execution, crew briefing, ITO, emergency return, air work IAW FAM-105, OEI instrument approaches, and OEI missed approaches.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1131 4.0 * B,SC,R E 1 WST/KC-130J S/A D

Goal. Demonstrate proficiency in selected aircraft maneuvers and emergencies.

Requirement. This flight is the ATU FAM evaluation. The student will demonstrate proficiency in selected visual/instrument maneuvers and designated emergencies.

Performance Standards
1) Demonstrate competence with 100%, 50%, and flaps up landings and touch and go procedures.
2) Demonstrate competence in clearance execution, crew briefing, ITO, emergency return, air work IAW FAM-105, OEI instrument approaches, OEI missed approaches ,No HUD approaches, and circling approaches.
3) Demonstrate CRM IAW the NFM.

Prerequisite. FAM-1130 and ATU approved ground training curriculum.

References. NFM and NA 00-80T-112.

FAM-1132 3.0 * B,SC 1 KC-130J A D

Goal. Introduce aircraft emergency and miscellaneous equipment.

Requirement. This lesson is designed to provide the ATU student with hands-on exposure to the KC-130J aircraft. The instructor will discuss and introduce aircraft exterior inspection, cargo compartment lighting, emergency and miscellaneous equipment, and emergency exits.

Performance Standard. Demonstrate competence of emergency equipment and knowledge of preflight responsibilities.

Prerequisite. CPT-1111 and ATU approved ground training curriculum.

External Syllabus Support. KC-130J.

References. NFM.

4. Night Systems High (NS(H))

a. Purpose. Introduce the pilot to operating aircraft at night using night vision devices in a non-LAT environment.

b. Crew Requirements. FRSI NSI or CI NSI.

c. Academic/Ground Training. Attend NITE lab, MAWTS-1 NVD ASPs and ATU approved ground training curriculum.

NS(H)-1150	4.0	*	B,SC	1 WST/KC-130J	S/A	NS

Goal. Introduce NVD procedures.

Requirement. The flight will introduce KC-130J Night Systems (NS) operations under High Light Level (HLL) (at or above .0022 LUX) and Low Light Level (LLL) (below .0022 LUX) conditions. The instructor will discuss NVD operations, to include the use of oxygen mask with helmets/NVDs, aircraft lighting considerations, and sandy/dusty conditions operating procedures and introduce designated visual maneuvers with NVDs donned. The effects of shadowing, cultural lighting, and weather on NVD performance will be emphasized. The student will perform a minimum of four touch and go landings and one full stop landing under various lighting conditions.

Performance Standards
1) Demonstrate competence with 100% and 50% landings and touch and go procedures while on goggles.
2) Demonstrate competence in goggle/degoggle considerations and procedures, aircraft lighting ,differences in HLL and LLL, and SLAP data.

Prerequisite. FAM-1129, NITE Lab, MAWTS-1 NVD ASPs, and ATU approved ground training curriculum.

External Syllabus Support. NITE Lab.

References. NFM, NA 00-80T-112, ANTTP, and NVD Manual.

5. Long Range Navigation (LRN)

a. Purpose. Introduce the pilot to long range, overwater, International Civil Aviation Organization (ICAO) environment procedures.

b. Crew Requirements. FRSI or CI LRNI.

c. Academic/Ground Training. ATU approved ground training curriculum.

LRN-1160	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Introduce long range, overwater, ICAO environment procedures.

Requirement. The flight will introduce KC-130J long range, overwater, ICAO environment procedures. The instructor will discuss mission planning and aircraft radios utilized in the overwater, nonradar environment. The instructor will discuss/introduce long range flight procedures, border clearance procedures, fuel management procedures, ICAO instrument procedures, and designated emergency procedures. The student will practice alternate fuel management procedures. Review Item: Fuel management.

Performance Standards
1) Demonstrate competence in utilizing OPARS and CFPS in producing overwater flight plan.
2) Demonstrate competence in fuel planning, master flight plan and master plotting chart.
3) Demonstrate competence in coast out, waypoint, and coast in procedures.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM, DOD FLIP General Planning, FCG, Performance Manual, SOP, OPNAVINST 3710.7, NA 00-80T-112, DOD FLIP Area Planning, and FLIP Enroute IFR Supplement.

6. Tactical Navigation (TN)

a. Purpose. Introduce the pilot to Tactical Navigation (TN) operations.

b. Crew Requirements. FRSI BIP or CI TNI.

c. Academic/Ground Training. ATU approved ground training curriculum.

TN-1200	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Introduce TN procedures.

Requirement. The flight will introduce KC-130J low level flight operations. The instructor will discuss low level mission planning and use of applicable aircraft systems (HUD, GCAS, and the Digital Map Display System) in the low level environment. The instructor will discuss and introduce low level flight, time control, and combat entry/exit checklist procedures. The flight will be conducted on a Military Training Route (MTR) and contain a minimum of six waypoints. Flight altitude will be per the T&R Program Manual non-Low Altitude Tactics (LAT) minimums.

Performance Standards
1) Demonstrate competence in CFPS generated flight plan route, Falcon view area planning chart and flip charts.
2) Demonstrate competence in time navigation by arriving at the objective within +/-30 seconds.
3) Demonstrate CRM IAW the NFM and ANTTP.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM, ANTTP, and CNI Manual.

TN-1201	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Advanced TN procedures.

Requirement. The purpose of the flight is to practice KC-130J advanced time control procedures. The instructor will discuss time control procedures with emphasis on in-flight mission

updates. The student will practice low level flight; time control procedures, including in-flight time over target and threat scenario updates; and combat entry/exit checklist procedures. The flight will be conducted on a MTR and contain a minimum of six waypoints. Flight altitude will be per the T&R Program Manual non- LAT minimums.

Performance Standards
1) Demonstrate competencies established in TN-1200.
2) Demonstrate competence in the Digital MAP Display System.
3) Demonstrate competence in advanced time navigation by arriving at the objective within +/- 15 seconds.
4) Demonstrate CRM IAW the NFM and ANTTP.

Prerequisite. TN-1200 and ATU approved ground training curriculum.

References. NFM, ANTTP, and CNI Manual.

TN-1202	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Introduce tactical maneuvering.

Requirement. The flight will introduce KC-130J low level tactical maneuvering. The instructor will discuss low level mission planning pertaining to aircraft limitations, high load factors, and energy management during tactical maneuvering. Use of the HUD during tactical maneuvering will be discussed. The instructor will discuss and introduce jinks, bunts, ridgeline and open area crossings, zoom climbs, climbs to cope, and hard/break turns. The student will practice low level operations and combat entry/exit checklist procedures. Flight altitude will be per the T&R Program Manual non- LAT minimums.

Performance Standards
1) Demonstrate competencies established in TN-1200 and TN-1201.
2) Demonstrate competence in tactical maneuvering.
3) Demonstrate competence in advanced time navigation by arriving at the objective within +/- 5 seconds.
4) Demonstrate CRM IAW the NFM and ANTTP.

Prerequisite. TN-1201 and ATU approved ground training curriculum.

References. NFM, ANTTP, and CNI Manual.

7. Formation (FORM)

a. Purpose. Introduce the pilot to section formation operations.

b. Crew Requirements. FRSI Section Leader or CI FORMI.

c. Academic/Ground Training. ATU approved ground training curriculum.

FORM-1300 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Introduce section formation procedures.

Requirement. The flight will introduce KC-130J section formation operations. The instructor will discuss/introduce section formation taxi, takeoff, cruise, and recovery procedures.

Performance Standards
1) Demonstrate a basic level of familiarity with the formation takeoff, climbout, cruise positions, and break maneuver.
2) Demonstrate competence in parade echelon and parade trail.
3) Demonstrate competence in turns into, turns away, and break up and rendezvous.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. ANTTP, 14 CFR 91, ATP-56(B), and NA 00-80T-112.

8. Threat Reaction (TR)

a. Purpose. Introduce the pilot to Threat Reaction (TR) against ground-based Infrared (IR) and Radar (RF) threats.

b. Crew Requirements. FRSI LATI or CI IR or RF TRI.

c. Academic/Ground Training. ATU approved ground training curriculum.

TR-1400 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Introduce TR against ground-based IR threats.

Requirement. The flight will introduce KC-130J TR against ground-based IR threats. The instructor will discuss HUD missile launch warning cues. The instructor will discuss and introduce AN/ALE-47 Countermeasures Dispensing System (CMDS) operations, AN/ALQ-157 IR Countermeasures (IRCM) System operations, AN/AAR-47 Missile Warning System (MWS) operations, and tactics/maneuvers for use against IR Surface-to-Air Missile (SAM) threats. The student will be exposed to a variety of threats in the takeoff, low level, and approach phases of flight utilizing both the automatic and manual functions of the AN/ALE-47 CMDS.

Performance Standards
1) Demonstrate competencies established in TN-1200 through TN-1202.
2) Demonstrate competence in IR TR.
3) Demonstrate competence in set up and operation of defensive systems.
4) Demonstrate CRM IAW the NFM and ANTTP.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM and ANTTP.

9. Assault Landing Zone (ALZ)

a. Purpose. Introduce the pilot to improved Assault Landing Zone (ALZ) operations and tactical arrivals.

b. Crew Requirements. FRSI ALZI or CI ALZI.

c. Academic/Ground Training. ATU approved ground training curriculum.

ALZ-1500 4.0 * B 1 WST/KC-130J S/A D

Goal. Introduce ALZ procedures.

Requirement. The flight will introduce KC-130J ALZ operations. The instructor will discuss mission planning and performance data. The instructor will discuss/introduce maximum effort takeoffs/climbouts/landings, combat offload procedures, Engine Running Onload/Offload (ERO) procedures, and passenger combat loading procedures. A minimum of four maximum effort takeoffs will be performed. A minimum of six maximum effort landings, with at least four to a full stop, will be performed. Two landings will be performed at an aircraft gross weight of ~110,000 and two at a gross weight of ~125,000. Review Items: Aborted takeoff and engine failure (takeoff).

Performance Standards
1) Demonstrate competence in maximum effort TOLD performance calculations.
2) Demonstrate competence in maximum effort landings to touch down within the first 500 feet of runway.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM, ANTTP, and PERF.

ALZ-1501 4.0 * B,SC 1 WST/KC-130J S/A D

Goal. Introduce tactical arrivals.

Requirement. The flight will introduce KC-130J tactical arrivals to ALZs. The instructor will discuss the Integrated Precision Radar Approach (IPRA) System. The instructor will discuss/introduce random high, random low/shallow, Infrared (IR)-cooled, and self-contained approaches. The student will practice maximum effort takeoffs, climbouts, and landings. A minimum of two maximum effort takeoffs will be performed. A minimum of four maximum effort landings, with at least two to a full stop, will be performed. Review Items: Anti-skid system failure, brake system failure, ground evacuation.

Performance Standards
1) Demonstrate competence established in ALZ-1500.

2) Demonstrate competence in IPRA approach planning and procedures.
3) Demonstrate competence in random high and low approaches to maintain airspeed within +/- 10 KIAS, altitude +/- 100 feet, and heading +/- 10 degrees.

Prerequisite. ALZ-1500 and ATU approved ground training curriculum.

References. NFM, ANTTP, CNI Manual and Performance Manual.

10. Air to Air Refueling (AAR)

a. Purpose. Introduce the pilot to FW, TR, and Helicopter AAR operations.

b. Crew Requirements. FRSI BIP or CI AARI.

c. Academic/Ground Training. ATU approved ground training curriculum.

AAR-1600 4.0 * B 1 WST/KC-130J S/A D

Goal. Introduce FWAAR / TRAAR procedures.

Requirement. The flight will introduce KC-130J single tanker to FW and TR receiver AAR procedures. The instructor will discuss and introduce AAR system checks, FW/TR rendezvous procedures, join-up procedures, AAR procedures, breakaway procedures, post AAR procedures, and designated emergencies.

Performance Standards
1) Demonstrate competence in CFPS generated flight plan to include orbit point and fuel offload.
2) Demonstrate competence in AAR system.
3) Demonstrate competence in FWAAR and TRAAR procedures and voice communication.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM, ANTTP, ATP-56B, 14 CFR 91, FIH, and CNI Manual.

AAR-1601 4.0 * B 1 WST/KC-130J S/A D

Goal. Introduce HAAR procedures.

Requirement. The flight will introduce KC-130J single tanker to Helicopter AAR procedures. The instructor will discuss/introduce helicopter rendezvous procedures and designated emergencies. The student will practice AAR system checks, join-up procedures, AAR procedures, post AAR procedures, and designated emergencies.

Performance Standards
1) Demonstrate competence established in AAR-1601.

2) Demonstrate competence in HAAR procedures and voice communication.

Prerequisite. AAR-1600 and ATU approved ground training curriculum.

References. NFM, ANTTP, and ATP-56B.

11. Air Delivery (AD)

a. Purpose. Introduce the pilot to Air Delivery operations.

b. Crew Requirements. FRSI ADI or CI ADI.

c. Academic/Ground Training. ATU approved ground training curriculum.

AD-1700	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Introduce AD procedures.

Requirement. The flight will introduce KC-130J AD operations. The instructor will discuss/introduce personnel, Heavy Equipment (HE), and Container Delivery System (CDS) airdrops. The student will perform a CDS airdrop with a racetrack to an HE airdrop with a final racetrack to a personnel airdrop. The initial ingress will be via low level.

Performance Standards
1) Demonstrate competencies established in TN-1200 through TN-1202.
2) Demonstrate competence in CAPS generated CARP solution and CARP summary.
3) Demonstrate competence in CNI-MU CARP mission pages.
4) Demonstrate competence in run in to Drop Zone to remain within 150 yards laterally, within 200 feet above drop altitude, and within either 10% below or 200 feet below whichever is the lesser amount.

Prerequisite. FAM-1129 and ATU approved ground training curriculum.

References. NFM and ANTTP.

12. Familiarization (FAM)

a. Purpose. Introduce the pilot to Familiarization Core Introduction skills in the aircraft. Upon completion of this stage, the pilot will be proficient in the use of cockpit controls, aircraft systems, selected aircraft maneuvers, execution of NATOPS normal and emergency checklists and procedures and be prepared for a T3P NATOPS and Instrument check.

b. Academic/Ground Training. Review NFM, NFM supplements, FAR/AIM, and appropriate aircraft systems CBT/IBT lessons.

FAM-1800 2.0 * B,SC,R 1 KC-130J A D

Goal. Develop crewmember technical proficiency and refine KC-130J CRM skills by familiarizing students with basic handling qualities of the KC-130J, practicing ground taxi operations, and practice visual traffic pattern and landings.

Requirement. Practice a rolling takeoff, takeoff abort, general aircraft handling, steep turns, power off stalls, slow flight, ATCS operation, side-slip recovery, TCAS warning procedures, visual traffic patterns, 50% and 100% landings. Operate the fuel system IAW primary fuel management procedures. Apply skill-based CRM principles during all mission phases.

Performance Standards
1) Demonstrate competence in normal takeoff, climbout, stall recovery, visual approach, full stop landing and touch and go procedures IAW the NFM.
2) Basic air work standards include +/- 10 KIAS, 200 ft of assigned altitude, 10 degrees of assigned heading, and angle of bank within 10 degrees during steep turns.
3) For approach to stall maneuvers, after the first indication of stall, recover with less than 200 feet loss of altitude.
4) During approach to landing maneuvers, maintain positive control of aircraft speed, power, and rate of descent.
5) Align aircraft with runway, maintain aircraft in trim and touchdown within the first third of the runway. Maintain directional control throughout the flare, touchdown, and rollout.
6) Demonstrate a basic level of familiarity with CRM procedures as established in Chapter 16 of the NFM.

Prerequisite. FAM-1131 and FAM-1132.

External Syllabus Support. SUA coordination.

FAM-1801 2.0 * B,SC 1 KC-130J A (N*)

Goal. Refine technical proficiency in data entry and management (emphasizing instrument approach setup). Refine KC-130J CRM principles and use of HUD and flight director. Perform instrument approaches using full aircraft automation.

Requirement. Fly multiple precision and non-precision instrument approaches using all available navaids and aircraft automation. Practice 4-engine missed approach, visual traffic patterns, and 50% and 100% landings. Practice performance data manipulation and associated impacts on TOLD, trip fuel, and enroute time. Apply skill-based CRM principles during all mission phases.

Performance Standards
1) Refine basic air work standards.
2) Demonstrate a proficiency in CNI-MU approach building for precision and non-precision approaches.
3) Demonstrate competence flying instrument approaches using automation within air work standards.

Prerequisite. FAM-1800.

FAM-1802 2.0 * B,SC,R 1 KC-130J A (N*)

Goal. Refine technical proficiency in data entry and management (emphasizing instrument approach setup). Refine KC-130J CRM principles and use of HUD and flight director. Perform instrument approaches using full aircraft automation.

Requirement. Fly multiple precision and non-precision instrument approaches emphasizing execution of procedure turns, holding, arcing and circling. If available, practice LOC BC, DP's, and STAR's. Practice 4-engine missed approach, visual traffic patterns, and 50% and 100% landings. Operate the digital map and radar systems to practice weather avoidance and windshear procedures; practice navigation position updates. Apply skill-based CRM principles during all mission phases.

Performance Standards
1) Demonstrate competencies established in FAM-1801.
2) Demonstrate proficiency in holding, arcing, procedure turn, and circling approaches.
3) Demonstrate competence in radar and digital map operation.

Prerequisite. FAM-1801.

FAM-1803 2.0 * B,SC 1 KC-130J A D

Goal. Practice aircraft handling through engine out situations, emergency checklist procedures to successfully maneuver the aircraft to land. Refine KC-130J CRM principles.

Requirement. Practice instrument approaches and visual traffic patterns through 1-engine inoperative scenarios, and 3-engine go-around procedures. Practice flight using oxygen mask/smoke goggles. Discuss Hydraulic system failures. Apply skill-based CRM principles during all mission phases.

Performance Standards
1) Demonstrate competencies established in FAM-1802.
2) Demonstrate competence in One-Engine-Inoperative Air Minimum Control Speeds, Engine Failure on Takeoff Procedures, Airstart procedures, and approach, landing and go-around procedures with one engine inoperative.
3) Demonstrate competence in No HUD and smoke mask approach procedures.

Prerequisite. FAM-1802.

FAM-1804 2.0 * B,SC,R 1 KC-130J A (N*)

Goal. Review aircraft handling through engine out situations, emergency checklist procedures, and CRM to successfully maneuver the aircraft to land. Refine KC-130J CRM principles.

Requirement. Review instrument approaches and visual traffic patterns through 1-engine inoperative scenarios, 3-engine go-around procedures, and takeoff aborts. Review the interpretation and management of multiple ACAWS messages, flight using the PFD, and use of oxygen mask/smoke goggles. Asterisked emergency procedures will be emphasized. Practice operation of the ice protection system. A zero flap landing will be demonstrated. Apply skill-based CRM principles during all mission phases.

Performance Standards
1) Demonstrate competencies established in FAM-1803.
2) Demonstrate competence in asterisked emergency procedures.
3) Demonstrate competence in prioritizing multiple ACAWS messages.

Prerequisite. FAM-1803.

208. CORE SKILL PHASE (2000)

1. General. Upon completion of this phase of training, the pilot will be qualified to operate day or night in the Core Skill Phase.

a. Stages. NS(H), LRN, TN, LAT, FORM, and IR TR. Refer to the MAWTS-1 Course Catalog for all stage pre-requisite academic support packages (ASPs).

b. Pilots entering the Core Skill Phase shall have completed the Core Skill Introduction Phase.

c. Pilots receiving initial training as the PF or PM shall be instructed by a BIP, LATI, NSI, or WTI as specified in the stage or event. Once a pilot has completed the initial event, subsequent events may be flown with proficient aircrew for that event.

d. Pilots conducting NS(H) training shall be instructed by an NSI (with appropriate stage instructor designations) for all NVD events until qualified NSQ(H).

e. Simulator events shall be conducted with either an appropriate stage instructor or an appropriately qualified Contract Instructor (CI).

f. In the event of simulator non-availability, simulator events should be conducted in the aircraft. Appropriate Operational Risk Management (ORM) policies should be used to reduce risk associated with not using a simulator.

2. Night Systems High (NS(H))

a. Purpose. To attain and maintain the Night Systems High Core Skill. Upon completion of this phase, the pilot will be capable of operations using NVDs during HLL or LLL conditions in the NSQ(H) non-LAT environment.

b. General. The NSQ(H) qualification syllabus consists of NS(H)-2150, NS(H)-2151, TN-2250, TN-2251 and requires 10 hours of total NVD time with at least 5 hours of Low Light Level (LLL) time. The initial 10 hours shall be flown in the aircraft. Pilots successfully completing these requirements shall be issued a NS(H) qualification letter by the squadron commanding officer.

c. Crew Requirements. Shall be instructed by a NSI or WTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, MAWTS-1 TACAIR NVD Manual, and KC-130 ANTTP.

NS(H)-2150	2.0	90	B,SC,R	1 KC-130J/WST	A/S	NS

Goal. HLL NVD procedures.

Requirement. Preflight shall include a flight station, cargo compartment and exterior lighting demonstration with NVDs. Emphasize the interaction between aircraft lighting with normal, NVIS and covert modes. Donning NVDs, and the use of oxygen mask with helmets/NVDs shall be practiced to proficiency. Ground operations shall include NVD taxi procedures. Flight procedures shall include takeoff, cockpit orientation at altitude, landings, aircraft operations, and NVD aircrew coordination. The flight should be conducted to emphasize variations that occur with different terrain/water, cultural lighting and altitudes (above 1000 AGL). Conduct a minimum of 4 touch-and-go landings and 1 full stop landing on a hard surface runway as the PF. Initial event shall be conducted in the aircraft.

Performance Standards
1) Demonstrate competence in takeoff, climbout, visual approach, full stop landing and touch and go procedures IAW the NFM with NVDs donned.
2) Basic air work standards include +/- 5 KIAS and 100 ft of assigned altitude.
3) Align aircraft with runway, maintain aircraft in trim and touchdown within the first third of the runway. Maintain directional control throughout the flare, touchdown, and rollout.
4) Demonstrate a basic level of familiarity with NVD operations.

Range Requirement. Airfield capable of covert runway lights or extinguished runway lighting environment.

NS(H)-2151	2.0	90	B,SC,R	1 KC-130J/WST	A/S	NS

Goal. LLL NVD procedures.

Requirement. Conduct all operations included in NS(H)-2150 under LLL conditions. Initial event shall be conducted in the aircraft.

Performance Standards
1) Demonstrate competencies established in NS(H)-2150.
2) Demonstrate a understanding of the Aviation T&R Program Manual and OPNAV 3710.7 as they pertain to NVD operations.

Prerequisite. NS(H)-2150.

Range Requirement. Airfield capable of covert runway lights or extinguished runway lighting environment.

3. Long Range Navigation (LRN)

a. Purpose. To attain and maintain the long range navigation Core Skill. Upon completion of this stage, the pilot will be capable of flying to and from all ICAO environments during day or night. Should be flown in the ICAO environment and remain overnight in a foreign country.

b. Crew Requirements. May be instructed by a TPC.

c. Academic/Ground Training. Review use of PFPS mission planning, OPARS, CNI-MU functionality, radar operation, ICAO procedures, FLIP GP/APs, Foreign Clearance Guide, Performance Manual, and KC-130 ANTTP.

LRN-2160 6.0 * B,SC 1 KC-130J A (N)

Goal. Introduce long-range, non-radar, ICAO environment procedures utilizing a constant TAS cruise profile.

Requirement. Introduce long range navigation constant TAS profile flight planning (discuss maximum continuous power profile), flight weather packets, OPARS/PFPS mission planning, diplomatic clearances and appropriate publications. Practice use of FLIP enroute flight publications, coast out procedures, fuel management procedures, non-radar reporting requirements, and HF/SELCAL voice procedures.

Performance Standards
1) Correctly submit a Diplomatic Country Clearance Request per the Foreign Clearance Guide.
2) Correctly utilize PFPS, OPARS, FLIP publications to file a DD-1801.
3) Demonstrate basic familiarity with LRN procedures.

External Syllabus Support. Diplomatic/Flight Clearance.

LRN-2161 6.0 * B,SC 1 KC-130J A (N)

Goal. Introduce long-range, non-radar, ICAO environment procedures utilizing a long range cruise profile.

Requirement. Introduce long range navigation long range cruise profile flight planning, flight weather packets, OPARS/PFPS mission planning, diplomatic clearances and appropriate publications. Practice use of FLIP enroute flight publications, coast out procedures, fuel management procedures, non-radar reporting procedures, and HF/SELCAL voice procedures.

Performance Standards
1) Demonstrate competencies established in LRN-2160.
2) Demonstrate proper LRN procedures.

External Syllabus Support. Diplomatic/Flight Clearance.

LRN-2162 6.0 365 B,SC,R 1 KC-130J A (N)

Goal. Review long-range, non-radar, ICAO environment procedures.

Requirement. Practice long range navigation flight planning. Practice use of FLIP enroute flight publications, coast out procedures, fuel management procedures, non-radar HF/SELCAL voice procedures.

Performance Standard. Demonstrate competencies established in LRN-2161.

Prerequisite. LRN-2160 and LRN-2161.

External Syllabus Support. Diplomatic/Flight Clearance.

4. Tactical Navigation (TN)

a. Purpose. To attain and maintain the Tactical Navigation Core Skill. Upon completion of this stage, the pilot will be capable of single ship tactical ingress and egress to mission objective areas during day or night. The training includes use of CNI TIME-NAV for time constraints, tactical maneuvering, and high/low altitude navigation.

b. Crew Requirements. TN-2200 and TN-2201 shall be instructed by a BIP. TN-2250 and TN-2251 shall be instructed by a NSI or WTI.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM and KC-130 ANTTP.

TN-2200	2.0	*	B,SC,R	1 KC-130J/WST	A/S	D

Goal. Tactical TIME NAV procedures (Pilot Monitoring)(PM).

Requirement. Plan and execute a VFR navigation route of at least 6 waypoints with at least 1 time constrained waypoint. Route should be conducted within SUAS or on a FLIP approved MTR. Emphasize mission planning procedures, CNI-MU management, CNI TIME NAV and vertical profile planning as well as the CRM associated with PF and PM duties. Introduce short and long term target speeds, AHD/BHD time, change in vertical/speed profile, tactical pilotage techniques and DIGIMAP/radar MAP mode familiarity. Minimum altitude per T&R Program Manual non-LAT minimums but not lower than comfort level.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card, and DIGIMAP card.
2) Arrive at planned TOT within +/- 30 seconds.
3) Demonstrate the ability to modify the route in flight IOT account for ahead/behind time.
4) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Range Requirement. Appropriate SUAS or MTR scheduled.

TN-2201	2.0	365	B,SC,R	1 KC-130J/WST	A/S	D

Goal. Tactical Navigation procedures (Pilot Flying) (PF).

Requirement. Plan and execute a VFR navigation route on a published MTR or appropriate SUAS. The route shall consist of at least 6 waypoints. Emphasize mission planning procedures,

AP/1A/B usage, Tactical Manual/Operational Guide requirements, SLAP, BASH, PFPS, TASM/AWE, and CNI-MU management. Review HUD symbology, short and long term target speeds, AHD/BHD time, change in vertical/speed profile, tactical pilotage techniques and DIGIMAP familiarity. Discuss aircraft limitations that are applicable for high load factor maneuvering. Emphasize principles of energy management, masking techniques and ground mapping radar usage. Initial event shall be completed in the aircraft.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card, and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. TN-2200.

Range Requirement. Appropriate SUAS or MTR scheduled.

TN-2250	2.0	180	B,SC,R	1 KC-130J/WST	A/S	NS

Goal. HLL Tactical Navigation procedures (PF).

Requirement. Plan and navigate a low level route of at least 6 waypoints at night during HLL conditions. Specific emphasis shall be placed on SLAP light level planning, BASH, effects of terrain contrast, high/low albedo terrain, shadowing, cultural lighting, weather, and ground mapping radar. Minimum altitude per Aviation T&R Program Manual non-LAT minimums but not lower than comfort level. Initial event shall be completed in the aircraft.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card, and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. NS(H)-2150 and TN-2201.

Range Requirement. Appropriate SUAS or MTR scheduled.

TN-2251	2.0	180	B,SC,R	1 KC-130J/WST	A/S	NS

Goal. LLL Tactical Navigation procedures (PF).

Requirement. Plan and navigate a Low Level route of at least 6 waypoints at night during low light conditions. Specific emphasis shall be placed on SLAP light level planning, BASH, effects of terrain contrast, high/low albedo terrain, leg segment altitudes, shadowing, cultural lighting, weather, and ground mapping radar. Minimum altitude per Aviation T&R Program Manual minimums but not lower than comfort level. Initial event shall be completed in the aircraft.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card, and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. NS(H)-2151 and TN-2250.

Range Requirement. Appropriate SUAS or MTR scheduled.

5. Low Altitude Tactics (LAT)

a. Purpose. To attain and maintain the Low Altitude Tactics Core Skill. Upon completion of this stage, the pilot will be capable of single ship low altitude ingress and egress to mission objective areas during the day.

b. General. General LAT rules of conduct (ROC) are contained in NAVMC 3500.14 and KC-130 specific LAT guidance is contained in the KC-130 ANTTP. All LAT sorties require all crew members to be LAT qualified and proficient. If a PF or PM is not qualified and/or proficient, then the other pilot seat shall be occupied by a proficient LATI. The LAT qualification requirement consists of LAT-2260 and LAT-2261. Upon completion of LAT qualification requirements, pilots shall be issued a LAT qualification letter from the squadron commanding officer.

c. Crew Requirements. Shall be instructed by a LATI or WTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM, and KC-130 ANTTP.

LAT-2260	2.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Intro to LAT procedures.

Requirement. Discuss LAT ROC and LAT currency versus proficiency. Introduce aircraft maneuvering that potentially produce high load factors. Review principles of energy management and masking techniques. Practice bunts, jinks, ridgeline crossings, zoom climbs/dive recoveries, terrain clearance turns, hard turns, break turns, and MAC demonstration (simulator only). Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. TN-2201.

Range Requirement. Scheduled appropriate LAT approved SUAS (restricted area/LAT approved MTR) if conducted in the aircraft.

External Syllabus Support. WST simulator and CI (LATI).

LAT-2261 2.0 180 B,SC,R 1 KC-130J A D

Goal. LAT procedures.

Requirement. Review aircraft limitations that are applicable for high load factor maneuvering. Review principles of energy management and masking techniques. Practice bunts, jinks, ridgeline crossings, zoom climbs/dive recoveries, terrain clearance turns, hard turns, and break turns. Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level. Initial event shall be conducted in aircraft.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. LAT-2260.

Range Requirement. Scheduled appropriate LAT approved SUAS (restricted area/LAT approved MTR).

6. Formation (FORM)

a. Purpose. To attain and maintain the Formation Core Skill (Section and Division). Upon completion of this stage, the pilot will be capable of flying in a section or division during high altitude tactical ingress/egress in day or night conditions.

b. Crew Requirements. Shall be instructed by a Section Leader/Division Leader or WTI.

c. Academic/Ground Training. Review KC-130 ANTTP.

FORM-2300 3.0 365 B,SC,R 2 KC-130J/WST A/S D

Goal. Introduce section formation procedures.

Requirement. Demonstrate position cues and normal/emergency procedures for section formation. Emphasize communication procedures, ground operations, take-off, join/rendezvous, tanker formations, tactical formations (AAR and TN), concepts of mutual support, lead changes, under runs, section recoveries, planned weather penetration, lost-sight, and inadvertent weather penetration procedures. Demonstrate and practice procedures for handling individual aircraft emergencies while in formation. Initial event shall be completed in an aircraft.

Performance Standards
1) Attain and maintain the 45 degree bearing line while in the parade position on the left and right side of lead.
2) Recognize excessive closure and safely execute the underrun procedure.
3) Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS or TACAN A/A.

4) Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing and altitude change.
5) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Range Requirement. Appropriate SUAS scheduled.

FORM-2301 3.0 365 B,SC,R 3+ KC-130J A (NS)

Goal. Division formation procedures.

Requirement. Introduce and practice division formation procedures while flying as a wingman in a flight of at least 3 aircraft. Perform running and turning rendezvous. Review considerations inherent with maintaining tanker, tactical, and cruise positions in a division formation. Practice lead change procedures. Emphasize visual cues for maintaining position and recognizing closure in a division formation. Review emergency procedures to include lost sight and inadvertent weather penetration as pertains to formation operations. Initial event should be conducted during day.

Performance Standards
1) Attain and maintain proper parade and cruise formation positions.
2) Recognize excessive closure; safely execute the underrun procedure if required.
3) Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS or TACAN A/A.
4) Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing and altitude change.
5) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.
Prerequisite. FORM-2300, (FORM-2350, NSQ(H) or flown with NSI/SL or WTI).

Range Requirement. Appropriate SUAS scheduled.

FORM-2350 2.0 180 B,SC,R 2 KC-130J/WST A/S NS

Goal. Night formation procedures.

Requirement. Practice position cues and normal/emergency procedures for formation at night. Emphasize communication procedures, ground operations, take-off, join/rendezvous, tanker formations, tactical formations, concepts of mutual support, lead changes, under runs, section recoveries, planned weather penetration, lost-sight and inadvertent weather penetration procedures. Demonstrate and practice procedures for handling individual aircraft emergencies while in formation.

Performance Standards
1) Attain and maintain the 45 degree bearing line while in the parade position on the left and right side of lead.
2) Recognize excessive closure and safely execute the underrun procedure.
3) Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS or TACAN A/A.

4) Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing and altitude change.
5) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. FORM-2300, NSQ(H) or flown with a NSI/SL or WTI. If Division, FORM-2301.

Range Requirement. Appropriate SUAS scheduled.

7. Threat Reaction (TR)

a. Purpose. To attain and maintain the Core Skill Threat Reaction (IR) in a low to medium infrared (IR) threat environment. Upon completion of this stage, the pilot will be capable of flying in a ground infrared threat environment during day or night.

b. General

(1) Aircraft must have an operational ASE suite that supports infrared (IR) threat reaction.

(2) Appropriate decoy flares shall be loaded prior to flight.

(3) Appropriate ground threat emitters shall be available.

c. Crew Requirements. Shall be instructed by a LATI or WTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM, KC-130 ANTTP 3-22.3, KC-130 ANTTP 3-22.1 (S), and KC-130J DECM CBT.

TR-2400	2.0	180	B,SC,R	1 KC-130J/WST	A/S	(NS)

Goal. Ground Infrared (IR) Threat Reaction.

Requirement. Introduce the counter-measures dispensing system (ALE-47) setup, the missile warning system (AAR-47) setup, HUD/HDD symbology and threat reaction. Discuss IR seeker head capabilities/limitations, threat reaction ICS calls, AAR-47 limitations and flare “cocktail”. The pilot should be exposed to a variety of threat situations of increasing intensity using both the automatic and manual modes of the ALE-47 from all quadrants. Threat reaction maneuvering should include the takeoff, cruise and approach phases of flight. Initial code shall be accomplished in the aircraft during the day.

Performance Standards
1) Correct threat call verbiage.
2) Execute the correct maneuver.
3) Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP 3-22.3 and KC-130 ANTTP 3-22.1 (S).

Prerequisite. TN-2260.

Ordnance. 120 Flares.

Range Requirement. SUAS authorized for expendables.

External Syllabus Support. Scheduled MWS stimulator and appropriate visual threat support (Smokey SAM Team).

209. MISSION SKILL PHASE (3000)

1. General. Upon completion of this phase of training, the pilot will be qualified to operate day or night in the Mission Skill Phase. This includes assault landing zone, air-to-air refueling, rapid ground refueling, and air delivery of cargo and personnel.

a. Stages. ALZ, AAR, RGR, and AD. Refer to the MAWTS-1 Course Catalog for all stage pre-requisite ASPs.

b. Pilots receiving initial training as the PF or PM shall be instructed by a BIP, ALZI, ADI, NSI or WTI as specified in the stage or event. Once a pilot has completed the initial event, subsequent events may be flown with proficient aircrew.

c. Simulator events shall be conducted with either an appropriate squadron instructor or an appropriately qualified contract instructor (CI).

d. In the event of WST non-availability, simulator events should be conducted in the aircraft. Appropriate Operational Risk Management (ORM) policies should be used to reduce risk associated with not using a WST.

2. Assault Landing Zone (ALZ)

a. Purpose. To attain and maintain the Mission Skill of operating from an ALZ. Upon completion of this stage, the pilot will be capable of day or night ALZ operations and will be knowledgeable of unimproved ground operation considerations.

b. Crew Requirements. Shall be instructed by an ALZI or WTI.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM and KC-130 ANTTP.

ALZ-3500	2.0	180	B,SC,R	1 KC-130J/WST	A/S	D

Goal. ALZ procedures.

Requirement. Review Airfield Marking Patterns (AMP), airfield capabilities, ground floatation, minimum runway requirements and ground operations. Practice crew coordination with respect to ALZ operations. Practice maximum effort takeoffs, landings and obstacle clearance criteria with respect to TOLD. Perform a minimum of 6 touch and go landings, plus at least 1 maximum effort full stop landing and 1 maximum effort takeoff. Initial event shall be conducted in the aircraft with AMP.

Performance Standards
1) For initial event, complete manual TOLD calculations utilizing appropriate charts from the KC-130J Performance Manual.
2) Consistent landings within the touchdown zone.
3) Consistent speed, centerline and glideslope control.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

External Syllabus Support. ATC, MMT, MWSS EAF or USAF Special Tactics Team with appropriate AMP and Crash/Fire/Rescue Support.

ALZ-3501 2.0 365 B,SC,R 1 KC-130J/WST A/S (NS)

Goal. Tactical Arrivals.

Requirement. Introduce the random high, random low/shallow, IR cooled, and self contained approaches. Emphasize terrain study with respect to ingress/egress of the terminal area and method of arrival based on threat. Discuss energy management. At least 1 self contained approach will be developed and constructed for use. Practice use of the Integrated Precision Radar Approach (IPRA) and LZ functions of the CNI-MU.

Performance Standards
1) Produce flight plan/route with an abeam position using either CFPS/Falcon View or a paper chart for an IR cooled approach.
2) Produce an IPRA approach plate.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. (NSQ(H) or conducted with a NSI/ALZI or WTI).

ALZ-3502 0.5 730 B,SC,R 1 KC-130J A (N)

Goal. Combat offload procedures.

Requirement. Introduce combat offload of cargo without the use of loading equipment.

Performance Standard. Properly brief and execute a combat offload per the Combat Offload Checklist and the NFM.

Prerequisite. RQD-6100 (NSQ(H) or conducted with a NSI/ALZI or WTI.)

External Syllabus Support. Sufficient ramp space and fork-lift support.

ALZ-3503 0.5 * B,SC,R 1 KC-130J A (NS)

Goal. Unimproved Ground Operations.

Requirement. Review AMP, airfield capabilities, ground floatation, minimum runway requirements and ground operations with emphasis on unimproved surfaces. Practice crew coordination with respect to unimproved ground operations.

Performance Standard. Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. RQD-6100 (NSQ(H) or conducted with a NSI/ALZI or WTI.)

External Syllabus Support. ATC, MMT, MWSS EAF or USAF Special Tactics Team with appropriate AMP and Crash/Fire/Rescue Support.

ALZ-3550 2.0 180 B,SC,R 1 KC-130J/WST A/S NS

Goal. Night ALZ procedures.

Requirement. Introduce night ALZ operations to include appropriate AMP, ground operations, crew coordination with respect to ALZ operations, maximum effort take-offs and maximum effort landings. Review max effort TOLD computations. Perform a minimum of 6 touch and go landings, plus 1 maximum effort full stop landing and 1 maximum effort takeoff. Review appropriate NFM performance charts and KC-130 ANTTP. Initial event shall be flown in the aircraft.

Performance Standards
1) Consistent landings within the touchdown zone.
2) Consistent speed, centerline and glideslope control.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. NS(H)-2150 if HLL, NS(H)-2151 if LLL, ALZ-3500, NSQ(H) or flown with a NSI/ALZI or WTI.

External Syllabus Support. ATC, MMT, MWSS EAF or USAF Special Tactics Team with appropriate AMP and Crash/Fire/Rescue Support.

3. Air-to-Air Refueling (AAR)

a. Purpose. To attain and maintain the Air-to-Air Refueling (AAR) Mission Skill. Upon completion of this stage, the pilot will be capable of fixed wing, tilt rotor, and helicopter AAR operations in the day or night environment.

b. Crew Requirements. Shall be instructed by a BIP or WTI.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM, KC-130 ANTTP, and ATP-56(B).

AAR-3600 2.0 365 B,SC,R 1 KC-130J/WST A/S (N)

Goal. FWAAR/TRAAR procedures.

Requirement. Conduct single tanker FWAAR or TRAAR. Emphasize mission planning using PFPS and receiver aircraft considerations. Discuss emergency procedures related to AAR and receiver capabilities and limitations. Conduct single tanker rendezvous procedures, radio procedures and receiver management. EMCON procedures should be introduced for the completion of the initial syllabus event. The initial event shall be completed in the aircraft.

Performance Standards
1) Produce AAR briefing card; CFPS generated flight plan/route with orbit and appropriate fuel offload; and an appropriate refueling track using either CFPS/Falcon View or a paper chart.
2) Determine the receiver’s location prior to the ARCT with either the LPCR, TCAS or TACAN A/A.

3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. (NSQ(H) or flown with a NSI/BIP or WTI).

External Syllabus Support. Fixed-wing or tilt-rotor receiver aircraft.

AAR-3601 2.0 365 B,SC,R 1 KC-130J/WST A/S D

Goal. Day Helicopter AAR (HAAR) procedures.

Requirement. Conduct single tanker HAAR. Emphasize mission planning using PFPS and receiver aircraft considerations. Conduct helicopter rendezvous procedures (PF), radio procedures (PM) and tanker/receiver management (PM). Discuss emergency procedures related to AAR and receiver capabilities and limitations. EMCON procedures should be introduced for the completion of the initial syllabus event as well as RAC responsibilities. A minimum of 2 rendezvous as the PF are required for initial qualification. The initial event shall be completed in the aircraft.

Performance Standards
1) Produce AAR briefing card; CFPS generated flight plan/route with orbit and appropriate fuel offload; and an appropriate refueling track using either CFPS/Falcon View or a paper chart.
2) Determine the receiver's location prior to the ARCT with either the LPCR, TCAS or TACAN A/A.
3) Arrive over the ARCP at planned ARCT within +1/-0 minutes.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

External Syllabus Support. Helicopter receiver aircraft.

AAR-3650 2.0 180 B,SC,R 1 KC-130J/WST A/S NS

Goal. Night HAAR procedures.

Requirement. Conduct single tanker HAAR refueling at night. Emphasize mission planning using PFPS and receiver aircraft considerations. Conduct helicopter rendezvous procedures (PF), radio procedures (PM), tanker/receiver management (PM). Discuss emergency procedures related to AAR. A minimum of 2 rendezvous as the PF are required.

Performance Standards
1) Produce AAR briefing card; CFPS generated flight plan/route with orbit and appropriate fuel offload; and an appropriate refueling track using either CFPS/Falcon View or a paper chart.
2) Determine the receiver's location prior to the ARCT with either the LPCR, TCAS or TACAN A/A.
3) Arrive over the ARCP at planned ARCT within +1/-0 minutes.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. AAR-3601 (NSQ(H) or flown with an NSI/BIP or WTI).

External Syllabus Support. Helicopter receiver aircraft.

4. Rapid Ground Refueling (RGR)

a. Purpose. To attain and maintain the Rapid Ground Refueling Mission Skill. Upon completion of this stage, the pilot will be capable of conducting rapid ground refueling of aircraft and ground vehicles in any environment, day or night.

b. Crew Requirements. Shall be instructed by a BIP or WTI.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM, and KC-130 ANTTP.

RGR-3660	1.0	730	B,SC,R	1 KC-130J	A	(NS)

Goal. RGR procedures.

Requirement. Plan and execute a RGR mission involving actual transfer of fuel to either aircraft or ground vehicles. Emphasize personnel responsibilities to include RS and RASO and the control of receivers through the RGR site. Additionally, discuss RGR location, security, setup, pre/post-stage areas, standard signals, and emergencies.

Performance Standards
1) Integrate with loadmasters in mission planning; ensure that a tanker egress plan has been established and forecast winds are factored for receiver traffic pattern.
2) Produce an RGR briefing card.
3) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. (NSQ(H) or conducted with a NSI/BIP or WTI).

External Support. Crash/Fire/Rescue Support. Receiver aircraft or ground vehicle (as appropriate).

5. Air Delivery (AD)

a. Purpose. To attain and maintain the Mission Skill of AD. Upon completion of this stage, the pilot will be capable of planning and executing an AD of cargo or static line personnel, day or night.

b. General. Simulated ADs in the aircraft do not update aircrew refly interval.

c. Crew Requirements. Shall be instructed by an ADI or WTI.

d. Ground/Academic Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, CNI-MU Manual, and KC-130 ANTTP.

AD-3700 2.0 * B,SC 1 WST/KC-130J S/A (NS)

Goal. Introduction to Pilot Flying AD.

Requirement. Review pilot flying AD procedures. Low level ingress/egress recommended. Emphasis should be on HUD symbology, DZ markings and identification, slowdown procedures, checklist compliance, CRM, and flying a steady and controlled platform. At least 3 passes shall be conducted, 1 of which shall be a personnel drop if conducted in a simulator.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Successfully plan and execute a level slowdown and a low-high-low (pop-up) slowdown.
3) No CARP VERT/XTRK errors resulting in a no-drop.
4) Correctly identify AD HUD symbology.
5) Efficient and correct execution of all checklist items, particularly completion of drop procedures.
6) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. TN-2200, TN-2201 (NSQ(H) or flown with a NSI/ADI or WTI).

External Support. WST and CI ADI.

AD-3701 2.0 * B,SC 1 WST/KC-130J S/A (NS)

Goal. Introduction to Pilot Monitoring AD.

Requirement. Review pilot monitoring AD procedures. Low level ingress/egress recommended. Emphasize mission planning, manual and computer CARP calculations, CNI-MU data entry and verification, checklist execution, and in-flight updating of CNI-MU CARP INIT/PROG pages. At least 3 passes shall be conducted, 1 of which shall be a personnel drop if conducted in a simulator.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Correctly enter all CARP INIT/PROG data in order to verify the pre-flight CARP, left/right & long/short distances, and green light time.
3) Manage all necessary CNI updates resulting in a successful drop.
4) Efficient and correct execution of all checklist items, particularly completion of drop procedures.
5) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3700 (NSQ(H) or flown with a NSI/ADI or WTI).

External Support. WST and CI ADI.

AD-3702 2.0 90 B,SC,R 1 KC-130J/WST A/S (NS)

Goal. PF Cargo AD.

Requirement. Review cargo AD procedures as the pilot flying. Low level ingress/egress recommended. Emphasis should be on HUD symbology, DZ markings and identification, slowdown procedures, checklist compliance, CRM, and flying a steady and controlled platform. Initial code shall be conducted in the aircraft with an actual CDS or heavy equipment AD and should be conducted during the day.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Correctly identify AD HUD symbology.
3) Efficient and correct execution of all checklist items, particularly completion of drop procedures.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3701 (NSQ(H) or flown with NSI/ADI or WTI).

External Support. AD platoon for cargo rigging and DZ control.

AD-3703 2.0 90 B,SC,R 1 KC-130J/WST A/S (NS)

Goal. PM Cargo AD.

Requirement. Review cargo AD procedures as the pilot monitoring. Low level ingress/egress recommended. Emphasize mission planning, manual and computer CARP calculations, CNI-MU data entry and verification, checklist execution, and in-flight updating of CNI-MU CARP INIT/PROG pages. Initial code shall be conducted in the aircraft with an actual CDS or heavy equipment AD and should be conducted during the day.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Correctly enter all CARP INIT/PROG data in order to verify the pre-flight CARP, left/right & long/short distances, and green light time.
3) Manage all necessary CNI updates resulting in a successful drop.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3702 (NSQ(H) or flown with NSI/ADI or WTI).

External Support. AD platoon for cargo rigging and DZ control.

AD-3704 2.0 90 B,SC,R 1 KC-130J/WST A/S (NS)

Goal. PF Personnel AD.

Requirement. Plan and execute a personnel AD mission. Low level ingress/egress recommended. Emphasize HUD symbology, DZ

markings and identification, slowdown procedures, checklist compliance, CRM, and flying a steady and controlled platform. Initial code shall be conducted in the aircraft with an actual personnel AD and should be conducted during the day.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Correctly identify AD HUD symbology.
3) Efficient and correct execution of all checklist items, particularly completion of drop procedures.
4) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3701 (NSQ(H) or flown with NSI/ADI or WTI).

External Support. Unit jumpmaster and DZ control.

AD-3705	2.0	90	B,SC,R	1 KC-130J/WST	A/S	(NS)

Goal. PM Personnel AD.

Requirement. Plan and execute a personnel AD mission. Low level ingress/egress recommended. Emphasize mission planning, manual and computer CARP calculations, CNI-MU data entry and verification, checklist execution, and in-flight updating of CNI-MU CARP INIT/PROG pages. Initial code shall be conducted in the aircraft with an actual personnel AD and should be conducted during the day.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Correctly enter all CARP INIT/PROG data in order to verify the pre-flight CARP, left/right & long/short distances, and green light time.
3) Manage all necessary CNI updates resulting in a successful drop.
4) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3704 (NSQ(H) or flown with NSI/ADI or WTI).

External Support. Unit jumpmaster and DZ control.

210. CORE PLUS TRAINING (4000)

1. General. Upon completion of this phase of training, the pilot will be qualified to operate the AAR system panel, plan and execute low level section formation operations and night systems low operations, defensive tactics, AD (combination, HALO/HAHO, and JPADS) and Battlefield Illumination (BI) in a radar threat environment.

a. Stages. TN, NS(L), TR (RF), DT, AAR, and AD (includes BI). Refer to the MAWTS-1 Course Catalog for all stage pre-requisite ASPs.

b. Pilots receiving initial training as the PF or PM shall be instructed by a BIP, LATI, ADI, DTI, NSI, NSLATI, or WTI as specified in the stage or event. Once a pilot has completed the initial event, subsequent events may be flown with proficient aircrew.

c. Refer to the MAWTS-1 KC-130J Course Catalog for NSQ(L). Upon completion of the NSQ(L) qualification requirements, pilots shall be issued a NSQ(L) qualification letter from the squadron commanding officer.

d. Simulator events shall be conducted with either an appropriate squadron instructor or an appropriately qualified contract instructor (CI).

e. In the event of WST non-availability, simulator events should be conducted in the aircraft. Appropriate Operational Risk Management (ORM) policies should be used to reduce risk associated with not using a WST.

2. Tactical Navigation (TN)

a. Purpose. To attain and maintain the Core Plus Skill of Formation TN. Upon completion of this stage, the pilot will be capable of flying as lead or -2 in a section formation in the low level environment.

b. Crew Requirements. TN-4200 shall be instructed by a Section Lead (LATI if LAT) or WTI if conducted during the day. TN-4200 shall be instructed by a Section Lead/NSI or WTI if conducted at night and shall be instructed by NSLATI if conducted at night in the LAT environment.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, and KC-130 ANTTP.

TN-4200	3.0	365	B,SC,R	2+ KC-130J	A	(NS)

Goal. Formation TN procedures.

Requirement. Introduce enroute tactical formations, tactical turns, and concepts of mutual support on a low level route of at least 6 waypoints. Event should be conducted from the wingman position. Practice normal and emergency procedures for formation flights, communication procedures, ground operations, take-off, join/rendezvous, formation recoveries, lost sight and inadvertent weather penetration procedures.

Performance Standards
1) Produce a flight leader form card.
2) Coordinate/schedule appropriate SUAS (appropriate MTR for LAT/non-LAT altitudes).
3) Create appropriate mission planning products to include a low level chart, mission planning card and DIGIMAP card.
4) Plan and lead a formation TN profile including: tactical turns into/away, dig and pinch, various tactical formations, zoom climbs, lead changes, and defensive maneuvering/scatter plan.
5) Minimal GCAS alerts.
6) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. TN-2201, FORM-2300, (NSQ(H) and FORM-2350), LATQ if LAT, (NSLATQ if LAT).

Range Requirement. Appropriate SUAS or MTR scheduled. Appropriate LAT approved SUAS (restricted area/LAT approved MTR) if in the LAT environment.

3. Night Systems Low (NS(L))

a. Purpose. To attain and maintain the Night Systems Low Core Plus Skill. Upon completion of this phase, the pilot will be capable of operations using NVDs during HLL conditions in the LAT environment.

b. General. The NSQ(L) qualification syllabus consists of NS(L)-4250 and NS(L)-4251. Pilots successfully completing these requirements shall be issued a NS(L) qualification letter by the squadron commanding officer.

c. Crew Requirements. Shall be instructed by a NSLATI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, and KC-130 ANTTP.

NS(L)-4250	2.0	*	B,SC,R	1 WST	S	NS

Goal. Introduce HLL LAT procedures.

Requirement. Review aircraft limitations applicable for high load factor maneuvering. Review principles of energy management and masking techniques. Practice bunts, jinks, ridgeline crossings, zoom climbs, terrain clearance turns, hard turns, and break turns while using NVDs. Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. NSQ(H) and LATQ.

External Syllabus Support. WST simulator and CI.

NS(L)-4251	2.0	180	B,SC,R	1 KC-130J	A	NS

Goal. HLL LAT procedures.

Requirement. Review aircraft limitations applicable for high load factor maneuvering. Review principles of energy management and masking techniques. Practice bunts, jinks, ridgeline crossings, zoom climbs, terrain clearance turns, hard turns, and break turns while using NVDs. Minimum altitude per T&R Program Manual minimums but not lower than comfort level.

Performance Standards
1) Create appropriate mission planning products to include a low level chart, mission planning card and DIGIMAP card.
2) Minimal GCAS alerts.
3) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. NS(L)-4250.

Range Requirement. Scheduled appropriate LAT approved SUAS (restricted area/LAT approved MTR).

External Syllabus Support. Scheduled appropriate LAT approved course.

4. Threat Reaction (TR)

a. Purpose. To attain and maintain the Core Plus Skill of Threat Reaction (TR) in a radar threat environment. Upon completion of this phase, the pilot will be capable of flying in a ground radar threat environment during day or night.

b. General

(1) Aircraft must have an operational ASE suite that supports radio frequency (RF) threat reaction.

(2) Appropriate chaff shall be loaded prior to flight.

(3) Appropriate ground threat emitters shall be available.

c. Crew Requirements. Shall be instructed by a WTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 Course Catalog and review MAWTS-1 ASPs, NFM, KC-130 ANTTP 3-22.3, KC-130 ANTTP 3-22.1 (S), and KC-130J DECM CBT.

TR-4400	2.0	*	B,SC	1	WST/KC-130J	S/A	(NS)

Goal. Introduce ground radar TR.

Requirement. Introduce the Radar Warning Receiver (RWR) system, RWR HUD/HDD symbology and threat reaction. The pilot should be exposed to a variety of radar threat scenarios and introduced to appropriate maneuver used in conjunction with the ALE-47 and ALR-56M. The appropriate modes of operation for the CMDS should be addressed. Shall be conducted during the day if initial event is conducted in the aircraft.

Performance Standard. Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP 3-22.3 and KC-130 ANTTP 3-22.1 (S).
Prerequisite. LAT-2260.

Ordnance. 420 Chaff if conducted in the aircraft.

Range Requirement. SUAS authorized for expendables if conducted in the aircraft.

External Syllabus Support. WST simulator and CI. Schedule appropriate RF threat emitters if conducted in the aircraft.

TR-4401	2.0	180	B,SC,R	1	KC-130J	A	(NS)

Goal. Ground radar TR.

Requirement. Review the RWR system, RWR HUD/HDD symbology and threat reaction. The pilot should be exposed to a variety of radar threat scenarios of increasing intensity and practice

appropriate maneuver used in conjunction with the CMDS. The appropriate modes of operation for the CMDS shall be addressed. The initial code shall be accomplished during the day.

Performance Standard. Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP 3-22.3 and KC-130 ANTTP 3-22.1 (S).

Prerequisite. TR-4400.

Ordnance. 420 Chaff.

Range Requirement. SUAS authorized for expendables.

External Syllabus Support. Appropriate RF threat emitters.

5. Defensive Tactics (DT)

a. Purpose. To attain and maintain the Core Plus Skill of employing Defensive Tactics against an air threat by combining maneuver and use of the ASE suite. Upon completion of this stage, the pilot will be capable of flying against 1 or 2 adversaries.

b. General

(1) Aircraft must have fully operational ASE suite.

(2) Appropriate expendables must be loaded prior to flight.

(3) The DT qualification requirements consist of DT-4410 and DT-4411. Upon successful completion of qualification requirements, pilots shall be issued a DT qualification letter from the squadron commanding officer. If a PF or PM is not qualified in DT, then the other pilot seat shall be occupied by a DTI.

c. Crew Requirements. Shall be instructed by a DTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, and KC-130 ANTTP.

DT-4410	2.0	365	B,SC,R	1 KC-130J	A	D	

Goal. Defensive Tactics against a single adversary.

Requirement. Practice defensive maneuvers emphasizing hard turns, break turns, maneuvering velocity, and lookout doctrine. Discuss rate of turn and radius of turn in relation to the adversary aircraft.

Performance Standards
1) Practice crew coordination with timely and accurate maneuvers and lookout calls.
2) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. TR-2400 and LATQ.

Ordnance. 120 flares.

Range Requirement. SUAS authorized for expendables.

External Support. Appropriate single adversary aircraft.

DT-4411 2.0 365 B,SC,R 1 KC-130J A D

Goal. Defensive Tactics against 2 adversaries.

Requirement. Practice defensive maneuvers with 2 adversary aircraft. Emphasize lookout doctrine and discuss rate of turn and radius of turn in relation to the adversary aircraft.

Performance Standards
1) Practice crew coordination with timely and accurate maneuvers and lookout calls.
2) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. DT-4410.

Ordnance. 120 flares.

Range Requirement. SUAS authorized for expendables.

External Support. Appropriate section of adversary aircraft.

6. Air-to-Air Refueling (AAR)

a. Purpose. To attain and maintain the Core Plus Skill of Air-to-Air Refueling. Upon completion of this phase, the pilot will be capable of operating the fuel management panel and the refuel control panel.

b. General. Upon completion of AAR-4600 a pilot may operate the refueling pods from the left or right seat as the PM without the assistance of the crew chief. This pilot skill is specifically intended to be used as a capability and is not the standard for AAR operations.

c. Crew Requirements. Shall be instructed by a BIP or WTI.

d. Academic/Ground Training. Review the Air-to-Air Refueling System Academic Course listed in the MAWTS-1 KC-130J Course Catalog.

AAR-4600 2.0 180 B,SC,R 1 WST/KC-130J S/A (N)

Goal. AAR System / Panel procedures.

Requirement. Operate the refueling system with either high speed or low speed drogues during AAR as the PM. Emphasize functional knowledge and use of the refueling system to include system limitations and normal, emergency and alternate procedures.

Performance Standards
1) Correctly perform AR system checks, AR system normal procedures and AR system emergency procedures.
2) Maintain lateral fuel balance IAW the NFM.
3) Observe NFM AR system limitations.
4) Satisfactory completion of the procedures per the NFM.

Prerequisite. AAR Mission Skill complete (NSQ(H) if flown with NVDs).

External Syllabus Support. FW, TR or Helicopter receiver aircraft.

7. Air Delivery (AD)

a. Purpose. To attain and maintain the Core Plus Skill of Air Delivery (AD). Upon completion of this phase, the pilot will be capable of planning and executing combination, HALO/HAHO and JPADS AD.

b. General. Simulated ADs in the aircraft do not update aircrew refly interval.

c. Crew Requirements. Shall be instructed by an ADI or WTI.

d. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, CNI-MU Manual, and KC-130 ANTTP.

AD-4700	2.0	365	B,SC,R	1 KC-130J	A	(NS)

Goal. Combination AD.

Requirement. Plan and execute a combination AD mission. Emphasize the requirement for incorporation of separate personnel and cargo CARP computations. A cargo or personnel AD (aircraft or simulator) shall have been completed within the previous 90 days.

Performance Standards
1) Produce a low level ingress/egress route using CFPS and CAPS and perform appropriate CARP calculations.
2) Efficient and correct execution of all checklist items.
3) Correctly enter all CARP INIT/PROG data in order to verify the pre-flight CARP, left/right & long/short distances, and green light time.
4) Manage all necessary CNI updates resulting in a successful drop.
5) Accurately compute the required zone dimensions.
6) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3702 through AD-3705 (NSQ(H)).

External Support. Air delivery platoon for cargo rigging and DZ control.

AD-4701	2.0	365	B,SC,R	1 KC-130J	A	(NS)

Goal. Military Free Fall (HAHO/HALO) AD.

Requirement. Plan and execute a Military Free Fall (MFF) AD operation. Perform in-depth mission analysis and planning of high altitude air delivery of personnel. Perform at least 1 HAHO or 1 HALO AD with in-flight HARP updates. Review applicable physiology requirements for high altitude AD

operations. Emphasize tactical considerations and manual HARP computations.

Performance Standards
1) Manual HARP calculations.
2) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3701 (NSQ(H)).

External Support. Military free fall unit, appropriate DZ control and flight surgeon/physiologist if applicable.

AD-4702 2.0 365 B,SC,R 1 KC-130J A (NS)

Goal. Joint Precision Air Delivery System (JPADS).

Requirement. Perform in-depth mission analysis and planning of high altitude air delivery of cargo using JPADS mission planning software. Plan and execute at least 1 JPADS air delivery. Emphasize tactical considerations and JPADS mission planning software.

Performance Standards
1) Account for the maximum flyout of the device.
2) Brief the DZ team on method of control (beacon, manual, direct, or approach).
3) Satisfactory completion of the procedures per the NFM and KC-130 ANTTP.

Prerequisite. AD-3703 (NSQ(H)).

External Support. JPADS and appropriate DZ control.

8. Battlefield Illumination (BI)

a. Purpose. To attain and maintain the Mission Plus Skill of Battlefield Illumination (BI). Upon completion of this phase, the pilot will be capable of planning and executing combination BI.

b. Crew Requirements. Shall be instructed by an ADI or WTI.

c. Academic/Ground Training. Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, CNI-MU Manual, and KC-130 ANTTP.

BI-4710 2.0 365 B,SC,R 1 KC-130J A N

Goal. Battlefield Illumination.

Requirement. Provide illumination using procedures per the KC-130 ANTTP. Emphasize mission planning and area illumination procedures.

Performance Standards
1) Correctly account for illumination levels.
2) Account for flare drift and burn-out location.
3) Satisfactory completion of the procedures per the NFM, KC-130 ANTTP and applicable Naval weapons/ordnance publications.

Prerequisite. AD-3701 (NSQ(H) or flown with NSI/ADI or WTI).

Ordnance. 14 aircraft parachute flares (LUU-2/LUU-19).

Range Requirement. SUAS authorized for aircraft parachute flares.

211. INSTRUCTOR TRAINING (5000)

1. General. The purpose of this phase of training is to train qualified pilots to instruct various levels of instruction.

a. Pilots shall be recommended for instructor training via Aircrew Performance Review Board (APRB). Upon recommendation, the pilot shall complete appropriate syllabus requirements. Upon completion of syllabus requirements, the commanding officer shall designate the pilot as an instructor.

b. Standardization will be emphasized throughout instructor training.

c. IUTs shall have a minimum of 100 TPC hours in series to instruct. Instructors must maintain currency and proficiency in stage to instruct in that stage.

d. Due to the lack of a FRS for the KC-130J community, Core Skill Introduction Instruction may occur at the fleet squadrons in accordance with NAVMC 3500.14. Fleet Replacement Squadron Instructors shall conduct this training.

2. Basic Instructor Training

a. Purpose. To develop qualified Basic Instructor Pilots (BIPs) using a standardized instructor training program. This syllabus is designed to prepare aircraft commanders to instruct specific Core/Mission Skill events in the simulator and aircraft. This portion of the syllabus shall be used by VMGR squadrons to assist in instructor standardization.

b. General

(1) IUT flights will emphasize instructional techniques, briefing, and debriefing. The IUT will be capable of demonstrating all training objectives listed for the referenced syllabus flight. Emphasis on all flights is on training objectives, method of instruction, and student problem areas.

(2) BIPs may instruct in the Core Skill (TN) and the Mission Skill (AAR and RGR) phases.

(3) BIPs shall be designated in writing by the squadron commanding officer.

c. Crew Requirements. Shall be instructed by a BIP/ANI, LATI, NSI or WTI.

d. Academic/Ground Training

(1) Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, NFM supplements, and KC-130 ANTTP.

(2) IUTs shall satisfactorily instruct an appropriate stage ASP or ground training syllabus which shall be observed by a BIP/ANI,LATI, NSI or WTI.

BIP-5100 2.0 * E 1 KC-130J/WST A/S (NS)

Goal. Basic Instructor Pilot training.

Requirement. Instruct PF and PM TN procedures in the Core Skill Phase. Demonstrate the instructor skills required to instruct time navigation and low level flight while correcting common student errors. The IUT will fly in the right seat with a student in the left seat and the instructor on long cord.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a TN sortie. The IUT should utilize CFPS to plan and execute a TN route to a designated time on target (TOT). The IUT should emphasize planning to ensure terrain clearance and demonstrate the ability to modify the route in order to successfully achieve the planned TOT. The IUT shall discuss the following topics: load factor, low altitude hazards, emergencies while in the low level environment, and timing correction methods.

Prerequisite. TN Core Skill complete, NSQ(H) and LATQ.

Range Requirement. Appropriate SUAS or MTR scheduled.

External Syllabus Support. CI if conducted in a WST.

BIP-5101 2.0 * E 1 KC-130J/WST A/S NS

Goal. Basic Instructor Pilot check.

Requirement. Instruct AAR procedures in the Mission Skill Phase. The IUT will fly in the right seat with a student in the left seat and the instructor on long cord.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a night HAAR. The IUT shall discuss and demonstrate rendezvous procedures while utilizing NVDs. The IUT should discuss various tools used to effect the rendezvous (such as radar, air-to-air TACAN and TCAS). Emergency procedures while conducting night AAR (both aircraft and NVG) shall be briefed as well as fuel planning techniques. The IUT will fly the sortie from the right seat. A minimum of 1 rendezvous will be flown/demonstrated by the IUT as well as the IUTs ability to operate the AAR system correctly.

Prerequisite. AAR and RGR Mission Skill complete, AAR-4600 and BIP-5100.

External Syllabus Support. A minimum of 1 AAR capable helicopter or a CI if conducted in a WST.

3. NATOPS/Assistant NATOPS Instructor (NI/ANI)

a. Purpose. Qualify TPC as a NI/ANI.

b. General. Upon completion of the NI/ANI syllabus a pilot shall be designated an ANI or NI by the squadron commanding officer or designated a GNE by the group commanding officer.

c. Crew Requirements. Shall be instructed by an ANI, NI, GNE, or Model Manager.

d. Academic/Ground Training. Review NFM and NFM supplements.

NI-5140 2.0 * E 1 WST/KC-130J S/A (N)

Goal. NI/ANI training.

Requirement. Introduce the IUT to non-NS(H) NATOPS/Instrument checkride procedures. Introduce the skills required to correct common pilot errors with the IUT in the right seat with a qualified ANI/NI in the left seat.

Performance Standards
1) Demonstrate familiarity with common pilot errors and instructional techniques.
2) Maintain proper defensive posturing to maintain safe flight.
3) Develop a script for a NATOPS/Instrument checkride sortie including: precision and non-precision instrument approaches, 0%, 50% and 100% flap landings and ground/take-off/in-flight/landing emergencies.

External Syllabus Support. CI if conducted in a WST.

NI-5141 2.0 * E 1 WST/KC-130J S/A (N)

Goal. NI/ANI check.

Requirement. A NI/GNE will observe (on long cord) the IUT administer a NATOPS/Instrument checkride to another pilot in the left seat. Only the Model Manager can give a checkride to a GNE and only the GNE (or the Model Manager) can give a checkride to a NI.

Performance Standard. Demonstrate competencies established in NI-5140.

Prerequisite. NI-5140.

External Syllabus Support. CI if conducted in a WST.

4. Fleet Replacement Squadron Instructor (FRSI)

a. Purpose. Qualify ANI as a FRSI.

b. General. Upon completion of the FRSI syllabus a pilot shall be designated an FRSI by the commanding officer.

c. Crew Requirements. Shall be instructed by FRSI, NI or GNE.

d. Academic/Ground Training. Review NFM, NFM supplements, and KC-130 ANTTP.

FRSI-5145 2.0 * E 1 WST/KC-130J S/A (N)

Goal. FRSI training.

Requirement. IUT in the left seat shall practice all FAM procedures in the Core Skill Introduction syllabus.

Performance Standards
1) Demonstrate familiarity with common student errors and instructional techniques.
2) Maintain proper defensive posturing to maintain safe flight.
3) Demonstrate instructional proficiency in steep turns, power off stalls, slow flight, side-slip recovery, 1-engine inoperative scenarios, 3-engine go-around procedures, takeoff aborts, and asterisked emergency procedures.

Prerequisite. NI-5141.

FRSI-5146 2.0 * E 1 WST/KC-130J S/A (N)

Goal. FRSI training.

Requirement. IUT in left seat shall demonstrate the ability to maintain a safe training environment while correcting common student errors as simulated by a FRSI. IUT shall be introduced to standardized maneuver description/instruction for Core Skills Introduction FAM events.

Performance Standard. Demonstrate competencies established in FRSI-5145.

Prerequisite. FRSI-5145.

FRSI-5147 2.0 * E 1 KC-130J A (N)

Goal. FRSI check.

Requirement. IUT shall conduct a Core Skills Introduction FAM event with a student in the right seat and shall be observed by a NI or GNE on long cord. Upon completion of this event, the pilot shall be designated a Fleet Replacement Squadron Instructor by the commanding officer.

Performance Standard. Demonstrate competencies established in FRSI-5145.

Prerequisite. FRSI-5146.

5. Flight Leadership Standardization Evaluator (FLSE)

a. Purpose. Certify FLSEUT as a FLSE.

b. General. FLSEs ensure flight leadership standardization across all squadrons. The FLSE shall conduct a standardized evaluation of a prospective flight leader’s ability to safely and effectively perform the duties as a flight lead. Prospective FLSEs shall complete the POI listed below. Upon completion of the POI, the squadron commanding officer will nominate the

prospective FLSE to the MAG commanding officer for approval and designation. Designated FLSEs are required to complete annual standardization training with the Program Coordinator.

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

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

e. Academic/Ground Training. The FLSE UT shall be familiar with all directives pertinent to multi-plane AAR in the NFM, OPNAV 3710, FAR/AIM, ANTTP, ATP-56(B), and local SOPs.

FLSE-5320 3.0 * R E 2+ KC-130J A (NS)

Goal. Certify the IUT to be designated a FLSE.

Requirement. Shall be instructed by the Program Coordinator with the Flight Leadership Standardization Evaluator Under Training (FLSEUT) administering a SL, DL, or RAC evaluation to a pilot under training. In addition to discussion items, the FLSEUT shall be evaluated on instructional technique and the standardization of related T&R POI items. A minimum of two rendezvous and recoveries shall be demonstrated. Flight should be flown in conjunction with a tactical mission. Upon completion of this event, the FLSEUT may be designated a FLSE by the group commanding officer.

Performance Standard. The FLSE UT shall demonstrate complete knowledge and understanding of self-paced readings and lectures in all formation and RAC POIs. The FLSEUT shall safely demonstrate the skills required to instruct and evaluate required maneuvers accurately, and correct common student errors to ensure standardization of the KC-130 FLSE program.

Prerequisite. DL-6304 (Designated DL).

External Syllabus Support. Program Coordinator.

FLSE-5321 1.0 365 Annual FLSE Training

Goal. Complete annual FLSE training with the Program Coordinator.
Requirement. Annual training with the FLSE Program Coordinator.

Performance Standard. Successful completion of the annual FLSE training.

Prerequisite. FLSE-5320.

External Syllabus Support. Program Coordinator.

6. Stage Instructor Training

a. Purpose. Qualify the pilot as a Stage Instructor pilot. Stage instructors may instruct in specifically designated Mission Skill areas.

b. General

(1) Instructors may only instruct the stage in which they are designated and for events in which they are current and proficient.

(2) Stage instructors shall be designated in writing by the squadron commanding officer.

c. Academic/Ground Training

(1) Utilize academic courseware as outlined in the MAWTS-1 course catalog and review MAWTS-1 ASPs, NFM, NFM supplements, and KC-130 ANTTP.

(2) IUTs shall satisfactorily instruct an appropriate stage ASP or ground training syllabus which shall be observed by either a current stage instructor or WTI.

ALZ-5500 2.0 * E 1 KC-130J A NS

Goal. ALZ stage instructor check.

Requirement. Instruct NS ALZ procedures in the Mission Skill Phase. The sortie shall be instructed by either a ALZI/NSI, ALZI/ANI or WTI. The IUT will occupy the right seat.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a NS ALZ sortie in accordance with ALZ-3550. The IUT shall brief the sortie and discuss runway surface conditions, lighting/marking configurations, minimum runway length, TOLD, and emergency procedures. IPRA and approach plate generation will also be demonstrated and discussed. The IUT will fly the sortie from the right seat and demonstrate a minimum of 3 touch and go landings to a runway with AMP.

Prerequisite. ALZ Mission Skill complete (3500 thru 3503, 3550), BIP, and either ANI/NI or NSI.

AD-5700 2.0 * E 1 WST/KC-130J S/A (NS)

Goal. AD stage instructor training.

Requirement. Instruct AD procedures in the Mission Skill Phase. The IUT will act as the PF while instructing an ADI

acting as a PM student. The sortie shall be instructed by either an ADI or WTI.

Performance Standard. The IUT shall demonstrate the ability to plan, execute and instruct an AD as the PF. The IUT shall demonstrate slow-down calculations, CARP calculations using CAPS and PFPS, and manual CARP calculations. The IUT should also discuss the following: TASM, CNI-MU CARP pages, check lists, DZ markings, HUD symbology, and emergency procedures.

Prerequisite. AD Mission Skill complete (3700 thru 3705), BI-4710, either AD-4700, or AD-4701, or AD-4702, and BIP.

External Syllabus Support. WST and CI. Drop zone and AD support if conducted in the aircraft.

AD-5701 2.0 * E 1 KC-130J A (NS)

Goal. AD stage instructor check.

Requirement. Instruct AD procedures in the Mission Skill Phase. The IUT will act as the PF while instructing a PM student during an actual cargo or static line personnel drop. The sortie shall be instructed by either an ADI or WTI who is proficient in AD operations. The instructor will be on long cord.

Performance Standard. The IUT shall demonstrate the ability to plan and execute an air delivery as the PF. The IUT shall demonstrate slow-down calculations, CARP calculations using CAPS and PFPS, and manual CARP calculations. The IUT should also discuss the following: TASM, CNI-MU CARP pages, check lists, DZ markings, HUD symbology, and emergency procedures.

Prerequisite. AD-5700.

External Syllabus Support. Drop zone and AD support.

7. Night Systems Instructor (NSI) (NS(H) 5150 thru 5152)

a. Purpose. Certify and designate the pilot as a NSI.

b. General. Refer to NAVMC 3500.14, MCO 3500.109 and the MAWTS-1 course catalog. The build-up phase may be developed and supervised by the Squadron NSI. Upon certification by MAWTS-1, the NSI shall be designated by the squadron commanding officer.

c. Crew requirements. Refer to the MAWTS-1 KC-130J Course Catalog.

d. Academic/Ground Training. Refer to the MAWTS-1 KC-130J Course Catalog.

e. Flight Training. Refer to the MAWTS-1 KC-130J Course Catalog.

8. Low Altitude Tactics Instructor (LATI) (LAT-5210 thru 5212)

a. Purpose. Certify and designate the pilot as a LATI.

b. General. Refer to NAVMC 3500.14, MCO 3500.109, and the MAWTS-1 course catalog. The build-up phase may be developed and supervised by the Squadron LATI. Upon certification by the squadron WTI or MAWTS-1, the LATI shall be designated by the squadron commanding officer.

c. Crew requirements. Refer to the MAWTS-1 KC-130J Course Catalog.

d. Academic/Ground Training. Refer to the MAWTS-1 KC-130J Course Catalog.

e. Flight Training. Refer to the MAWTS-1 KC-130J Course Catalog.

9. Night Systems LAT Instructor (NS LATI) (NS(L) 5250 thru 5251)

a. Purpose. Certify and designate the pilot as a NSLATI.

b. General. Refer to NAVMC 3500.14, MCO 3500.109 and the MAWTS-1 course catalog. The build-up phase may be developed and supervised by the Squadron NSLATI. Upon certification by MAWTS-1, the NSLATI shall be designated by the squadron commanding officer.

c. Crew requirements. Refer to the MAWTS-1 KC-130J Course Catalog.

d. Academic/Ground Training. Refer to the MAWTS-1 KC-130J Course Catalog.

e. Flight Training. Refer to the MAWTS-1 KC-130J Course Catalog.

10. Defensive Tactics Instructor (DTI) (DT-5410 thru 5412)

a. Purpose. Certify and designate the pilot as a DTI.

b. General. Refer to NAVMC 3500.14, MCO 3500.109 and the MAWTS-1 course catalog. Completion of the DT syllabus is a prerequisite. The build-up phase may be developed and supervised by the Squadron DTI. Upon certification by MAWTS-1, the DTI shall be designated by the squadron commanding officer.

c. Crew requirements. Refer to the MAWTS-1 KC-130J Course Catalog.

d. Academic/Ground Training. Refer to the MAWTS-1 KC-130J Course Catalog.

e. Flight Training. Refer to the MAWTS-1 KC-130J Course Catalog.

11. Weapons Tactics Instructor (WTI)

a. Purpose. Certify and develop highly qualified pilots to serve as the units training officer, to become the unit SME for mission planning, briefing/debriefing and be responsible for planning and integrating with the MAGTF and Joint Forces. Additionally, this stage is designed to create effective and experienced unit tactics instructors.

b. General. Tactics and techniques will be taught per the KC-130 ANTTP and the MAWTS-1 supplements. Only MAWTS-1 instructors shall instruct/qualify flights in this stage. Qualification shall only be achieved as shown in the WTI Course Catalog. Upon certification by MAWTS-1, the WTI shall be designated by the squadron commanding officer.

c. Crew requirements. Refer to the MAWTS-1 WTI Course Catalog.

d. Academic/Ground Training. Refer to the MAWTS-1 WTI Course Catalog.

e. Flight Training. Refer to the MAWTS-1 WTI Course Catalog.

212. CONTRACT INSTRUCTOR TRAINING

1. General. The purpose of this phase of training is to train qualified contract simulator instructors for various levels of instruction.

a. CIs shall complete the POI in order to achieve stage instructor qualification. The general flow of training and evaluation is a four step qualification process that shall proceed as follows:

(1) Observe the instruction of ground training.

(2) Be evaluated while instructing ground training.

(3) Observe the instruction of a stage event.

(4) Be evaluated while instructing the stage event.

b. Previously qualified KC-130J stage instructors are not required to perform the first two steps of the qualification process above for the stages that they were qualified to instruct in. The third step should be performed to familiarize the IUT with instructor operator station (IOS) duties to be performed while conducting the instruction in the WST.

c. For stages that have multiple events, the IUT does not need to instruct every event, but must demonstrate the knowledge to instruct all aspects of the stage (i.e. the IUT can be evaluated while instructing ALZ-1500, if the IUT demonstrates the ability to instruct tactical arrivals and IPRAs which are contained in ALZ-1501).

d. CIs who were not previously qualified KC-130J stage instructors shall not be considered for stage instructor training/evaluation until they have demonstrated aircraft systems and procedures familiarity.

e. CIs shall be designated in writing at the discretion of the ATU Director or commanding officer.

f. CIs shall receive an annual TPC NATOPS check (RQD-6118) and be designated in writing by the Model Manager.

2. Contract Instructor Stage Training

a. Purpose. Qualify the CI as a Stage Instructor. Stage instructors may instruct in specifically designated areas.

b. General. Instructors may only instruct for the stages in which they are designated.

c. Academic/Ground Training

(1) Utilize academic courseware as outlined in the MAWTS-1 course catalog. Review NFM, NFM supplements, KC-130 ANTTP, and appropriate CBT modules.

(2) IUTs shall satisfactorily instruct the appropriate ground training syllabus, while being observed by a current stage instructor. This requirement is waived for previously qualified KC-130J stage instructors.

NI-5142 2.0 * E 1 WST S (N)

Goal. CI NATOPS Instructor training.

Requirement. Introduce the IUT to NATOPS/Instrument checkride procedures with the IUT in the right seat. The Model Manager/GNE/NI/ANI will fly from the left seat.

Performance Standard. Satisfactory completion of events per the NFM, NIFM, FAR/AIM, OPNAVINST 3710.7.

Prerequisite. Model Manager approval.

External Syllabus Support. Model Manager/GNE/NI/ANI and additional CI to operate IOS.

NI-5143 2.0 * E 1 WST S (N)

Goal. CI NATOPS Instructor check.

Requirement. Instructor will observe while IUT conducts a NATOPS/Instrument checkride. Flight will be observed by a Model Manager/GNE/NI/ANI.

Performance Standard. Satisfactory completion of events per the NFM, NIFM, FAR/AIM, OPNAVINST 3710.7.

Prerequisite. NI-5142.

External Syllabus Support. WST, Model Manager/GNE/NI/ANI, pilot to receive NATOPS/Instrument checkride and additional CI to operate IOS.

NS(H)-5153 4.0 * 1 WST S NS

Goal. NS(H) IUT.

Requirement. See MAWTS-1 Course Catalog.

Performance Standard. See MAWTS-1 Course Catalog.

Prerequisite. ATU Director or Squadron Commanding Officer approval.

External Syllabus Support. NSI and WST.

NS(H)-5154 4.0 * E 1 WST S NS

Goal. Qualify the CI as a NSI.

Requirement. See MAWTS-1 Course Catalog.

Performance Standard. See MAWTS-1 Course Catalog.

Prerequisite. ATU Director or Squadron Commanding Officer approval, and 5153.

External Syllabus Support. See MAWTS-1 Course Catalog.

LRN-5160 4.0 * E 1 WST S (N)

Goal. CI LRN stage instructor check.

Requirement. Instruct LRN operations during a LRN mission. The IUT shall be evaluated by a TPC.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a LRN mission, including the following KC-130J procedures: overwater, ICAO environment, mission planning, communication, border clearance, fuel management, and emergency procedures. The IUT will instruct from the IOS.

Prerequisite. Must be evaluated by a TPC, while instructing LRN CFPS / OPARS Mission Planning ground training.

External Syllabus Support. TPC.

TN-5200 4.0 * E 1 WST S (NS)

Goal. CI TN stage instructor check.

Requirement. Instruct PF and PM TN procedures, including time navigation and low level flight while correcting common student errors. The IUT will instruct from the IOS. The IUT shall be evaluated by a CI TNI or BIP.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a low level/time navigation sortie. The IUT should utilize CFPS to plan and execute a low level navigation route to an designated time on target (TOT). The IUT should emphasize planning to ensure terrain clearance and demonstrate the ability to modify the route in order to successfully achieve the planned TOT. The IUT shall discuss the following topics: load factor, low altitude hazards, emergencies while in the low level environment, and timing correction methods.

Prerequisite. Must be evaluated by a CI TNI or BIP, while instructing Tactical Employment Concepts and Tactical Mission Planning and Low Level Ops ASPs; Time Navigation; and CFPS TN Planning ground training.

External Syllabus Support. WST.

LAT-5213 2.0 * E 1 WST S D

Goal. LAT IUT.

Requirement. See MAWTS-1 Course Catalog.

Performance Standard. See MAWTS-1 Course Catalog.

Prerequisite. ATU Director or Squadron Commanding Officer approval.

External Syllabus Support. LATI and WST.

LAT-5214 2.0 * E 1 WST S D

Goal. Certify and designate the CI as a LATI.

Requirement. See MAWTS-1 Course Catalog.

Performance Standard. See MAWTS-1 Course Catalog.

Prerequisite. ATU Director or Squadron Commanding Officer

approval, and 5213.

External Syllabus Support. See MAWTS-1 Course Catalog.

FORM-5300 4.0 * E 1 WST S (NS)

Goal. CI FORM stage instructor check.

Requirement. Instruct formation procedures including all FORM maneuvers. Demonstrate ability to correct common student errors. The IUT will instruct from the IOS. The IUT shall be evaluated by a CI FORMI or SEC LD.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a day or night formation flight. At a minimum, the IUT shall discuss all parade positions, turns into/away, under run procedures, visual checkpoints, closure rate estimation, and formation emergency procedures.

Prerequisite. Must be evaluated by a CI FORMI or SL, while instructing Formation Procedures ground training.

External Syllabus Support. SL.

TR-5400 4.0 * E 1 WST S D

Goal. CI IR TR stage instructor check.

Requirement. Instruct the counter-measures dispensing system (ALE-47) setup, the missile warning system (AAR-47) setup, HUD/HDD symbology and threat reaction. Discuss IR seeker head capabilities/limitations, threat reaction ICS calls, AAR-47 limitations and flare “cocktail.” The pilot should be exposed to a variety of threat situations of increasing intensity using both the automatic and manual modes of the ALE-47 from all quadrants. Threat reaction maneuvering should include the takeoff, cruise and approach phases of flight.

Performance Standards
The IUT shall successfully demonstrate the ability to instruct IR TR. At a minimum, the IUT shall discuss the Aircraft Survival Equipment (ASE), ALE-47 CMDS and AAR-47 MWS interaction, MWS symbology on the HUD and HDD (NAV-RADAR), appropriate threat calls and maneuvers for various flight regimes.

Prerequisite. IUT must be evaluated by a LATI while instructing ASE Introduction, Performance Limitations and Stresses, and LAT Maneuvering ASPs.

External Syllabus Support. LATI.

ALZ-5501 4.0 * E 1 WST S (NS)

Goal. CI ALZ stage instructor check.

Requirement. Instruct ALZ operations including Max Effort takeoff and landings, tactical arrivals, and combat offload. The IUT shall be evaluated by a ALZI.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct an ALZ sortie. An IPRA will be demonstrated and discussed. The IUT will instruct from the IOS.

Prerequisite. Must be evaluated by a ALZI, while instructing Assault Landing Zone Operations ASP and Max Effort TOLD ground training.

External Syllabus Support. ALZI or WTI.

AAR-5600 4.0 * E 1 WST S (NS)

Goal. CI AAR stage instructor check.

Requirement. Instruct AAR operations during a HAAR mission. The IUT shall complete an oral examination demonstrating the knowledge to instruct FWAAR and TRAAR. The IUT shall be evaluated by an CI AARI or BIP.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a HAAR. The IUT should discuss various tools used to effect the rendezvous (such as radar, air-to-air TACAN and TCAS). The IUT will instruct from the IOS. The IUT will demonstrate the ability to operate the refueling system.

Prerequisite. Must be evaluated by a CI AARI or BIP, while instructing Tactical Air-to-Air Refueling ASP and AAR Planning ground training.

External Syllabus Support. BIP.

AD-5702 4.0 * E 1 WST S (NS)

Goal. CI AD stage instructor check.

Requirement. Instruct AD procedures in the Mission Skill Phase. The IUT will instruct from the IOS while instructing a PM student during a cargo or static line personnel drop. The sortie shall be evaluated by either an ADI or WTI.

Performance Standard. The IUT shall ensure students demonstrate the ability to plan and execute an air delivery including: slow-down calculations, CARP calculations using CAPS and PFPS, and manual CARP calculations. The IUT will instruct from the IOS.

Prerequisite. IUT must be evaluated by an ADI or WTI, while instructing General Aircraft Prep for AD, CDS AD, HE AD, and personnel static and Military Free Fall (MFF) ASPs; Air Delivery System and CFPS AD Mission Planning ground training.
External Syllabus Support. ADI or WTI.

213. REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS (RQD) (6000)

1. General. To provide a vehicle for tracking codes associated with certifications, qualifications and designations. E-coded sorties are evaluation sorties. Once the flight to attain the qualification/designation is complete, a letter from the squadron commanding officer awarding the

qualification/designation shall be placed in the NATOPS jacket before that qualification/designation can be utilized.

2. Left Seat FAM

a. Purpose. Introduce left seat flight procedures and crew coordination.

b. Crew Requirements. Shall be instructed by an ANI/NI or FRSI.

RQD-6100	2.0	*	B,SC,R	1 KC-130J	A	D

Goal. Left seat FAM (Qualification).

Requirement. Introduce left seat normal and emergency procedures. Emphasize taxi, backing and take-off/landing procedures from the left seat.

Performance Standard.
1) Properly execute Pilot Flows IAW NFM.
2) Safely taxi the aircraft and perform aircraft reverse taxiing operations.
3) Properly execute the Abort Takeoff procedure.
4) Safely land the aircraft in 50% and 100% flap landing configurations.

Prerequisite. Recommendation by APRB.

3. Functional Check Pilot (FCP)

a. Purpose. Designate the TPC as a FCP.

b. General. TPCs must have 150 TPC hours in series and a minimum of three Functional Check Flights (FCFs) (two "A" Profiles) to be eligible for FCP. There is no minimum hour requirement for a TPC to be designated a partial FCP. Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency. FCPs shall be designated by the commanding officer.

c. Crew Requirements. Shall be instructed by a FCP (FCP-6106).

d. Academic/Ground Training. Functional Check Pilot Examination.

FCP-6005	1.0	*	B,SC,R	E	Open Book Functional Check Pilot Examination	

Goal. The purpose of the open book functional check pilot examination is to evaluate the airman's knowledge of the appropriate publications concerning functional check flight procedures.

Performance Standard. Achieve a minimum grade of qualified (80%) on the open book examination.

Prerequisite. NTPS-6118.

FCP-6105	4.0	*	E	1 KC-130J/WST	A/S	D

Goal. Partial FCP evaluation/designation.

Requirement. The flight shall consist of an "A" profile functional check flight and be instructed by a FCP. Upon completion of this code, the pilot will be qualified to conduct B-E card FCFs.

Performance Standard. Satisfactorily execute procedures per the NFM, OPNAVINST 3710.7_, and OPNAVINST 4790.2_.

Prerequisite. FCP-6005 and recommendation by APRB.

FCP-6106	4.0	*	E	1 KC-130J/WST	A/S	D

Goal. FCP evaluation/designation.

Requirement. The flight shall consist of an "A" profile functional check flight and be instructed by a FCP. Upon completion of this code, pilot will be qualified to conduct A-E card FCFs.

Performance Standard. Satisfactorily execute procedures per the NFM, OPNAVINST 3710.7_, and OPNAVINST 4790.2_.

Prerequisite. FCP-6105 and recommendation by APRB.

FCP-6107	1.0	180	1 KC-130J/WST	A/S	D

Goal. FCP proficiency.

Requirement. To maintain FCP proficiency a pilot shall conduct a A-E card FCF in the aircraft or simulator.

Prerequisite. FCP-6105 or FCP-6106.

4. KC-130J NATOPS Evaluation POI

a. Purpose. To evaluate the airman's knowledge of aircraft systems, performance limitations, emergency procedures, and flight and ground operations.

b. General

(1) NATOPS Evaluators/Instructors shall conduct the NATOPS evaluation in accordance with OPNAVINST 3710.7 Series and other applicable directives, instructions, and orders.

(2) The NATOPS Evaluator shall utilize the NATOPS Model Manager generated NATOPS Aviation Training Form (ATF) and the evaluation metrics required for the accomplishment and performance of the standardized criterion to determine whether the aircrewman completed the sortie. Prior to the oral examination, the NATOPS Evaluator shall review the evaluee's NATOPS monthly emergency procedures examinations and quarterly simulator/cockpit drills located in the APR for the previous twelve (12) months and previous NATOPS evaluations. At the discretion of the squadron commanding officer, a letter designating the pilot as NATOPS qualified shall be placed in the NATOPS jacket.

(3) NATOPS Evaluees shall complete and have a graded open book, closed book, and oral examination prior to the commencement of the actual NATOPS evaluation event.

c. NATOPS Training. All requirements delineated in the matrix below shall be completed/graded prior to the evaluation event.

SELF PACED READINGS						**DATE COMPLETE**
USMC KC-130J Squadron SOP						
KC-130J NATOPS Flight Manual						
OPNAVINST 3710.7 Series						
REQUIRED Evaluation Events	**DATE COMP/GRADED**					**INSTRUCTOR**
KC-130J Open Book Examination						
KC-130J Closed Book Examination						
KC-130J Oral Examination						
KC-130J Evaluation (Simulator/ Aircraft)						
NTPS-6010	3.0	365	B,SC,R	E	Open Book NATOPS Examination	
NTPS-6011	1.0	365	B,SC,R	E	Closed Book NATOPS Examination	
NTPS-6012	3.0	365	B,SC,R	E	Oral 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 airman's knowledge of the appropriate publications and the aircraft.

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

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

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

Goal. The oral examination shall consist of, but not be limited to the question bank. The instructor/evaluator may draw upon their experience to propose questions of a direct and positive manner and in no way be opinionated to evaluate the airman's knowledge of the concerning normal/emergency procedures, aircraft limitations, and performance.

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

5. Transport Third Pilot (T3P) Designation

a. Purpose. Designate as a T3P.

b. General. After student pilots have completed Core Skill Introduction Training and NATOPS check they shall be designated T3P by the commanding officer.

c. Crew Requirements. Shall be instructed by an ANI/NI (simulator: CI NI).

d. Ground Training/Evaluation. Open and closed book NATOPS examinations and the specific requirements for T3P designation per OPNAVINST3710.7_.

NTPS-6110	2.0	365	B,SC,R	E	1	KC-130J/WST	A/S	(N)

Goal. Complete T3P NATOPS flight evaluation. Conduct an objective evaluation of the airman'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, not tactical execution. Emphasis shall be placed on the aforementioned items with the addition of local course rules, squadron 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 airman'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. Initial T3P qualification shall be conducted in the aircraft.

Requirement. Conduct NTPS-6110 evaluation flight. Upon successful completion of this event, the evaluator shall log the appropriate training code for tracking purposes. Demonstrate comprehensive knowledge and understanding of NATOPS, squadron SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7 Series, and KC-130J NATOPS. Complies with squadron SOP and local course rules.

Prerequisite. Core Skill Introduction Phase complete, NTPS-6010, NTPS-6011, and NTPS-6012.

External Syllabus Support. CI if conducted in the WST.

6. Transport Second Pilot (T2P) Designation

a. Purpose. Designate as a T2P.

b. General. Upon completion of the initial examination and evaluation, this flight will be used as the annual NATOPS evaluation and the pilot shall be designated T2P by the commanding officer.

c. Crew Requirements. Shall be instructed by an ANI/NI or FRSI (simulator: CI NI).

d. Ground Training/Evaluation. Open and closed book NATOPS examinations, open book tactics examination and the specific requirements for T2P designation per OPNAVINSTINST 3710.7_. The written tactical examination will not be required for subsequent evaluations.

NTPS-6013	1.0	*	B,SC,R	E	Open Book Tactics Examination

Goal. The purpose of the open book tactics examination is to evaluate the airman's knowledge of the appropriate publications concerning tactics, techniques and procedures of Core and Mission Skills.

Performance Standard. Achieve a minimum grade of 80% on the open book examination.

Prerequisite. NTPS-6110.

NTPS-6111	2.0	365	B,SC,R	E	1 WST/KC-130J	S/A	(N)

Goal. Complete T2P NATOPS flight evaluation. Conduct an objective evaluation of the airman'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, not tactical execution. Emphasis shall be placed on the aforementioned items with the addition of local course rules, squadron 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 airman'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. Conduct NTPS-6111 evaluation flight. Upon successful completion of this event, the evaluator shall log the appropriate training code for tracking purposes. Demonstrate comprehensive knowledge and understanding of NATOPS, squadron SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7 Series, and KC-130J NATOPS. Complies with squadron SOP and local course rules.

Prerequisite. ACPM 82XX Phase complete, NTPS-6010, NTPS-6011, NTPS-6012, and NTPS-6013.

External Syllabus Support. WST and CI NI.

7. Transport Plane Commander (TPC) Designation

a. Purpose. Designate as a TPC.

b. General. This stage is intended to prepare the pilot for the upgrade to TPC. Upon completion of the initial syllabus, NTPS-6118 will be used to

track annual NATOPS evaluations and the pilot shall be designated a TPC by the commanding officer.

c. Crew Requirements. Shall be instructed by an ANI/NI (simulator: CI NI).

d. Ground Training/Evaluation. Pilots considered for TPC should be Mission Skill Phase complete, NSQ(H), currency/flight time per NFM, and the specific requirements for TPC designation per OPNAVINST 3710.7_.

NTPS-6112 3.0 * B,SC,R 1 WST S (N)

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per the NFM and NIFM.

Prerequisite. NTPS-6111 and NSQ(H).

NTPS-6113 3.0 * B,SC,R 1 WST S (N)

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per the NFM and NIFM.

Prerequisite. RQD-6112.

NTPS-6114 3.0 * B,SC,R 1 WST S (N)

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per the NFM and NIFM.

Prerequisite. RQD-6113.

NTPS-6115 3.0 * B,SC,R 1 WST S (N)

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per the NFM and NIFM.
Prerequisite. RQD-6114.

NTPS-6116 3.0 * B,SC,R 1 WST S (N)

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per the NFM and NIFM.

Prerequisite. RQD-6115.

NTPS-6117 18.0 * B,SC E 1 KC-130J A (N)

Goal. TPC Route Check.

Requirement. Pilot will demonstrate the ability to manage all aspects of an extended mission. Evaluation should be a longrange mission involving cargo handling, international flight procedures, route planning, and aircrew management. This flight should involve multiple legs with RON (remain-overnight).

Performance Standard. Per the NFM, FLIP, FCG and published SOPs.

Prerequisite. RQD-6116.

External Syllabus Support. Diplomatic/Flight Clearance.

NTPS-6118 2.0 365 B,SC,R E 1 KC-130J/WST A/S (N)

Goal. Complete TPC NATOPS flight evaluation. Conduct an objective evaluation of the airman’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, not tactical execution. Emphasis shall be placed on the aforementioned items with the addition of local course rules, squadron 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 airman’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. Initial TPC qualification shall be conducted in the aircraft.

Requirement. Conduct NTPS-6118 evaluation flight. Upon successful completion of this event, the evaluator shall log the appropriate training code for tracking purposes. Demonstrate comprehensive knowledge and understanding of NATOPS, squadron SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7 Series, and KC-130J NATOPS. Complies with squadron SOP and local course rules.

Prerequisite. Core Skill and Mission Skill Phase should be complete, BITC complete, ACPM 83XX Phase complete, NTPS-6010, NTPS-6011, NTPS-6012, and RQD-6112-RQD-6117.

External Syllabus Support. CI if conducted in the WST.

8. Emergency Procedure Training

a. Purpose. Maintain quarterly emergency procedure training.

b. General. Emergency procedure training consists of a monthly EP exam and a quarterly EP simulator. In the event the simulator is unavailable, the EP review may be conducted in the cockpit either pre or post flight as a static event.

c. Crew Requirements. Emergency Procedure review events may be instructed by a CI NI or an ANI/NI or FRSI.

NTPS-6120 1.0 90 B,SC,R E 1 WST/KC-130J S/A (N)

Goal. Emergency Procedure Review.

Requirement. This flight will review KC-130J emergency procedures and fulfills the requirement of quarterly EP simulator training.

Performance Standard. Comply with KC-130J NFM Chapter 11, Emergency Procedures.

9. NATOPS Instrument Evaluation POI

a. Purpose. Evaluate the pilot's knowledge and application of NATOPS instrument procedures and techniques.

b. General. General policy, requirements, and prerequisites concerning NATOPS instrument evaluations are contained in OPNAVINST 3710.7, NFM, and the NIFM.

c. Crew Requirements. Shall be instructed by an ANI/NI or FRSI (simulator: CI NI).

d. Ground Training/Evaluation. Ground training and evaluation shall be conducted per OPNAVINST 3710.7, NFM, and NIFM.

INST-6030 8.0 365 B,SC,R E Instrument Ground School

Goal. The Instrument Ground School shall be an approved Commander Naval Air Forces (CNAF) approved syllabus and at a minimum cover the following topics:
1) Spatial disorientation.
2) CNO GPS Policy Statement and GPS fundamentals to include RNAV (GPS) and Required Navigation Performance (RNP).
3) Reduced Vertical Separation Minimums (RVSM) procedures.
4) Requirements and denial reports.
5) Use of non-DoD instrument approach/departure reports.
6) Use of non-DoD GPS NOTAMS systems (Jeppeson GPS NOTAMS and Databases).

Performance Standard. Achieve a minimum grade of qualified for Instrument Ground School which also encompasses the open book examination.

INST-6031 3.0 365 B,SC,R E Oral NATOPS Instrument 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 Series. The examination shall include questions on the following topics:
1) Pertinent Navy or Marine Corps regulations, orders, and instructions.
2) Pertinent parts of the Federal Aviation Regulations (FAR), other regulations, and/or aeronautical publications which are applicable.
3) Interpretation of weather information normally used in flight planning. The instructor/evaluator may draw upon their experience to propose questions of a direct and positive manner and in no way be opinionated to evaluate the airman's knowledge of the NATOPS, NATOPS Instrument Flight Manual, FAR/AIM and/or aeronautical publications which are applicable, normal/emergency instrument ground and flight procedures, weather, aircraft limitations, and performance.

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

INST-6130 2.0 365 B,SC,R E 1 WST/KC-130J S/A (N)

Goal. Complete standard instrument flight evaluation. Following completion of the ground evaluation events, a standard instrument flight/simulator 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, conduct of flight under normal operating conditions, emergency procedures, closing out flight plans, and debriefing.

Requirement. Conduct INST-6130, and designate pilot per OPNAVINST 3710.7_, NFM, and the NIFM. Upon successful completion of these events, the evaluator shall log the appropriate training code for tracking purposes.

Performance Standard. Executes flight and ground operations safely IAW OPNAV 3710.7 Series, Platform NATOPS, NATOPS Instrument Flight Manual, and training rules. All areas on the instrument flight evaluation are critical. An "Unsatisfactory" grade in any area shall result in an "Unsatisfactory" grade for the flight.

Prerequisite. INST-6030, INST-6031, and minimum experience per OPNAVINST 3710.7_.

External Syllabus Support. CI if conducted in WST.

INST-6131 2.0 365 B,SC,R E 1 WST/KC-130J S/A (N)

Goal. Complete special instrument flight evaluation. Following completion of the ground evaluation events, a special instrument flight/simulator 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, conduct of flight under normal operating conditions, emergency procedures, closing out flight plans, and debriefing.

Requirement. Conduct INST-6131, and designate pilot per OPNAVINST 3710.7_, NFM, and the NIFM. Upon successful completion of these events, the evaluator shall log the appropriate training code for tracking purposes.

Performance Standards. Executes flight and ground operations safely IAW OPNAV 3710.7 Series, Platform NATOPS, NATOPS Instrument Flight Manual, and training rules. All areas on the instrument flight evaluation are critical. An "Unsatisfactory" grade in any area shall result in an "Unsatisfactory" grade for the flight.

Prerequisite. INST-6030, INST-6031, INST-6130, and minimum experience per OPNAVINST 3710.7.

External Syllabus Support. CI if conducted in WST.

10. Section Leader (SL)

a. Purpose. Prepare and certify the pilot for SL.

b. General. The pilot should review section formations, multi-plane AAR formations, planned and inadvertent weather penetrations and section recovery techniques. One flight should be flown at night. Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency. Upon certification, the SL shall be designated by the commanding officer.

c. Crew Requirements. Shall be instructed by a section or division lead and certified by FLSE.

d. Academic Training. All requirements delineated in the matrix below shall be completed and tracked prior to the SL evaluation/certification event.

SECTION LEADER (SL) MATRIX

SELF PACED READINGS	DATE COMP
OPNAVINST 3710.7 CH 5.1.12 Formation Flying	
ANTTP 3-22.3-KC-130 CH 2.3.6 FWAAR Formation	
ANTTP 3-22.3-KC-130 CH 2.4.8 HAAR Formation	
ANTTP 3-22.3-KC-130 CH 4 Formation	
ANTTP 3-22.3-KC-130 CH 5.2.7 Formation Air Delivery	
ATP-56B Part 1 Para 406 Loss of Visual Contact	
ATP-56B Part 2 CH 2 Formation Procedures	

ATP-56B Part 3 CH 3 Formation HAAR Procedures		
ATP-56B Part 4 CH 4 Safety Procedures		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Section Departures		
Section Formations		
Multi-Plane AAR Formations		
Planned Weather Penetration		
Inadvertent Weather Penetration		
Section Recoveries (Approaches/Overhead)		
NORDO Procedures		
SL Brief		
Section Debrief		
ADMINSTRATIVE FLIGHT REQUIREMENTS		
Formation Start, Taxi, Run-Up		
Section Takeoff		
Section Rendezvous		
Cruise/Parade Positions		
Under-run		
Cross-under		
Section Recovery		
TN/AD/AAR *		
Night Aided **		

* One event shall be flown in conjunction with a tactical mission.
** One event should be flown at night.

SL-6300 3.0 * B 2 KC-130J A (NS)

Goal. Section Leader practice.

Requirement. The SL UT is to brief, lead, and debrief a section formation evolution from takeoff to landing. Discuss flight leadership responsibilities, formation instructional techniques and common student error recognition and correction. This flight should be conducted in conjunction with a tactical mission (TN, AAR or AD).

Performance Standards
1) Produce a flight leader section form card.
2) Plan and lead a section tactical navigation with a simulated or actual air delivery or air-to-air refueling profile and produce all appropriate mission products.
3) Conduct a mission debrief IAW KC-130J Tactical Pocket Guide.
4) Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP and OPNAVINST 3710.7.

Prerequisite. FORM-2300, FORM-2301, FORM-2350, 3000 phase complete, NSQ(H), BIP, 100 flight hours as a TPC, two flights as a TPC/wingman, APRB recommendation, CO approval, and SL Academics complete.

Range Requirement. Appropriate SUAS scheduled.

SL-6301 3.0 * B,SC,R E 2 KC-130J A (NS)

Goal. SL evaluation/certification.

Requirement. The SL UT is to brief, lead, and debrief a section formation evolution from takeoff to landing. Discuss flight leadership responsibilities, formation instructional techniques and common student error recognition and correction. This flight shall be conducted in conjunction with a tactical mission (TN, AAR or AD) and evaluated by a FLSE.

Performance Standards
1) Produce a flight leader section form card.
2) Plan and lead a section tactical navigation with a simulated or actual air delivery or air-to-air refueling profile and produce all appropriate mission products.
3) Conduct a mission debrief IAW KC-130J Tactical Pocket Guide.
4) Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP and OPNAVINST 3710.7_.

Prerequisite. SL-6300.

Range Requirement. Appropriate SUAS scheduled.

SL-6302 2.0 365 B,SC,R, 2 KC-130J A (NS)

Goal. SL proficiency.

Requirement. To maintain proficiency as a SL a pilot shall brief, lead, and debrief (or evaluate a prospective SL) the designated event in accordance with the mission performance standards for that event. When interaction with another WST can be achieved via network simulation this event may be flown in the simulator.

Prerequisite. SL-6301.

11. Division Leader (DL)

a. Purpose. Prepare and certify the pilot for division leader (DL).

b. General. During the workup stage for DL at least one flight should be flown at night and at least one flight should be flown in conjunction with a multi-plane AAR in order to develop the prospective DL's flight leadership. The pilot should review division formations, multi-plane AAR formations, planned and inadvertent weather penetrations and division recovery techniques. All prospective DL events shall be evaluated by a designated DL. The following matrix will be used to track academic and administrative training. Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency. Upon certification, the DL shall be designated by the commanding officer.

c. Crew Requirements. Shall be instructed by a division lead and certified by a FLSE.

d. Academic Training. All requirements delineated in the matrix below shall be completed prior to the DL evaluation/certification event.

DIVISION LEADER (DL) MATRIX

SELF PACED READINGS		DATE COMP
OPNAVINST 3710.7 CH 5.1.12 Formation Flying		
ANTTP 3-22.3-KC-130 CH 2.3.6 FWAAR Formation		
ANTTP 3-22.3-KC-130 CH 2.4.8 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 4 Formation		
ANTTP 3-22.3-KC-130 CH 5.2.7 Formation Air Delivery		
ATP-56B Part 1 Para 406 Loss of Visual Contact		
ATP-56B Part 2 CH 2 Formation Procedures		
ATP-56B Part 3 CH 3 Formation HAAR Procedures		
ATP-56B Part 4 CH 4 Safety Procedures		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Formation Departures		
Division Formations		
Multi-Plane AAR Formations		
Planned Weather Penetration		
Inadvertent Weather Penetration		
Division Recoveries (Approaches/Overhead)		
NORDO Procedures		
Division Leader Brief		
Division Debrief		
ADMINSTARTIVE FLIGHT REQUIREMENTS		
Formation Start, Taxi, Run-Up		
Division Takeoff		
Division Rendezvous		
Cruise/Parade Positions		
Underrun		
Crossunder		
Division Recovery		
TN/AD/AAR *		
Night Aided **		

* One event should be flown in conjunction with a multi-plane AAR mission.
** One event should be flown at night.

DL-6303 3.0 * B 3+ KC-130J A (NS)

Goal. Division Leader practice.

Requirement. The DL UT is to brief, lead, and debrief a division formation evolution from takeoff to landing. Discuss flight leadership responsibilities and TACRAC responsibilities.

Performance Standards
1) Produce a flight leader division form card.
2) Plan and lead a division profile including: turns into (left/right), turns away (left/right), crossunders, break-up and rendezvous, underruns, overhead breaks, and inadvertent weather penetration procedures.
3) Conduct a mission debrief IAW KC-130J Tactical Pocket Guide.
4) Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP and OPNAVINST 3710.7.

Prerequisite. 200 flight hours as a qualified TPC, two flights as a designated SL, APRB recommendation, CO approval, and DL academics complete.

Range Requirement. Appropriate SUAS scheduled.

DL-6304	3.0	*	B,SC,R	E	3+ KC-130J	A	(NS)

Goal. DL evaluation/certification.

Requirement. The pilot is to brief, lead, and debrief a division formation evolution from takeoff to landing. Discuss flight leadership responsibilities as outlined in OPNAV 3710.7. This flight should be conducted during an AAR mission at night.

Performance Standards
1) Produce a flight leader division form card.
2) Plan and lead a division air-to-air refueling profile and produce all essential mission products.
3) Conduct a mission debrief IAW KC-130J Tactical Pocket Guide.
4) Satisfactory completion of the maneuvers and procedures per the NFM, KC-130 ANTTP and OPNAVINST 3710.7.

Prerequisite. DL-6303.

Range Requirement. Appropriate SUAS scheduled.

DL-6305	2.0	365	B,SC,R		3+ KC-130J	A	(NS)

Goal. DL proficiency.

Requirement. To maintain proficiency as a DL a pilot shall brief, lead, and debrief (or evaluate a prospective DL) the designated event in accordance with the mission performance standards for that event.

Prerequisite. DL-6304.

12. Tactical Refueling Area Commander (TACRAC)

a. Purpose. To attain and maintain the TACRAC skill. Upon completion of this phase, the pilot will be capable of assuming the responsibilities of a Tactical Refueling Area Commander during a FW/TR/Helicopter AAR operation during day or night.

b. General. Pilot shall conduct the following sortie in order to certify the TACRAC's flight leadership, mission planning comprehension with section or DL and receiver and tanker cell fuel considerations. Tactical RAC designation training should be conducted in coordination with, or shortly after SL training. The RAC-6310 shall be evaluated by a qualified TACRAC or Strategic Refueling Area Commander (STRATRAC), but the RAC-6311 evaluator shall also be a designated FLSE. Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency. At the discretion of the commanding officer, a letter designating the pilot as TACRAC shall be placed in the NATOPS jacket.

c. Academic Training. All requirements delineated in the matrix below shall be completed and tracked prior to the RAC evaluation/certification event.

TACTICAL REFUELING AREA COMMANDER MATRIX

SELF PACED READINGS		DATE COMP
OPNAVINST 3710.7 CH 5.1.12 Formation Flying		
ANTTP 3-22.3-KC-130 CH 2.3.6 FWAAR Formation		
ANTTP 3-22.3-KC-130 CH 2.4.8 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 4 Formation		
ATP-56B Part 1 Para 406 Loss of Visual Contact		
ATP-56B Part 2 CH 2 Formation Procedures		
ATP-56B Part 3 CH 3 Formation HAAR Procedures		
ATP-56B Part 4 CH 4 Safety Procedures		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Air Refueling Limitations		
Multi-Plane AAR Formations		
Rendezvous Procedures		
Weather Considerations		
Planned Weather Penetration		
Inadvertent Weather Penetration		
Receiver Fuel Management		
NORDO Procedures		
Refueling Area Commander Brief		
Tanker Mgmt: TNKR Aborts/TNKR RIP		
Emergency Air Refueling Procedures		
ADMINISTRATIVE FLIGHT REQUIREMENTS	DATE COMP	INSTRUCTOR
OPARS		
ALTRV Procedures		
Radio Management/Voice Procedures		

d. Crew Requirements. Shall be instructed by a TACRAC or STRATRAC and certified by a TACTRAC/FLSE or STRATRAC/FLSE.

RAC-6310 3.0 * B,SC 2+ KC-130J A (NS)

Goal. Intro to Tactical Refueling Area Commander (TACRAC).

Requirement. Conduct FW, TR, or Helicopter AAR mission planning requirements using PFPS and receiver aircraft considerations. Discuss and introduce refueling formation options, rendezvous procedures, radio procedures, NAVAID/radar/TCAS procedures, tanker/receiver management and emergency procedures related to AAR. Event should be conducted from the Dash-2 position and RAC procedures should be introduced. Discuss EMCON procedures. This event should be conducted during the day and is intended to serve as TACRAC work-up; however, it may be completed by a senior co-pilot and without APRB recommendation.

Performance Standard
1) Produce a multi-tanker AAR briefing card; CFPS generated flight plan/route with orbit and appropriate fuel offload for tanker force; and an appropriate refueling track using either CFPS/Falcon View or a paper chart.

2) Coordinate/schedule AAR airspace (SUAS or ALTRV).
3) Perform all radio communications between tanker force and receiver force.
4) Determine the receiver's location prior to the ARCT with either the LPCR, TCAS or TACAN A/A.
5) Manage fuel offload of tanker aircraft according to mission planning, brief, economy, and bingo considerations.
6) Manage receiver fueling according to mission planning, brief and divert considerations.
7) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. AAR-3600 and NTPS-6111.

Range Requirement. Appropriate SUAS scheduled.

External Support. Receiver aircraft.

RAC-6311	3.0	*	B,SC,R	E	2+ KC-130J	A	(NS)

Goal. TACRAC evaluation/certification.

Requirement. Brief, conduct, and control a multi-tanker AAR mission along a static orbit refueling track. Discuss responsibilities of a Refueling Area Commander. Focus should be on refueling formation integrity, receiver management, and fuel management for the entire flight. This flight shall be evaluated by a TACRAC/FLSE or STRATRAC/FLSE.

Performance Standards
1) Produce a multi-tanker AAR briefing card; CFPS generated flight plan/route with orbit and appropriate fuel offload for tanker force; and an appropriate refueling track using either CFPS/Falcon View or a paper chart.
2) Coordinate/schedule AAR airspace (SUAS or ALTRV).
3) Conduct a RAC brief with all tanker force aircrew.
4) Determine the receiver's location and establish tanker force in the proper/briefed formation, at the ARCP at the ARCT.
5) Perform all radio communications between tanker force and receiver force.
6) Manage fuel offload of tanker aircraft according to mission planning, brief, economy, and bingo considerations.
7) Manage receiver fueling according to mission planning, brief and divert considerations.
8) Satisfactory completion of the maneuvers and procedures per the NFM and KC-130 ANTTP.

Prerequisite. RAC-6310, Designated SL (may be conducted in conjunction with SL-6300 or SL-6301).

Range Requirement. Appropriate SUAS scheduled.

External Support. Receiver aircraft.

RAC-6312	2.0	365	B,SC,R	2+ KC-130J	A	(NS)

Goal. TACRAC proficiency.

Requirement. To maintain proficiency as a TACRAC a pilot shall plan and execute (or evaluate a prospective TACRAC) the designated event in accordance with the mission performance standards for that event.

Prerequisite. RAC-6311.

13. Strategic Refueling Area Commander (STRATRAC)

a. Purpose. To attain and maintain the long range formation air-to-air refueling skill. Upon completion of this phase, the pilot will be capable of planning and executing long range over-water (multiple tanker) FW/TR/Helicopter AAR during day or night.

b. General. This designation qualifies the pilot to act as RAC for extended over-water tanker missions. A detailed knowledge of both tanker and receiver fuel management, altitude reservations (ALTRV) scheduling facilities coordination, long-range navigation techniques, and international flight operations is required. Commanders should select only the most skilled and experienced aircraft commanders for this qualification. Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency. At the discretion of the commanding officer, a letter designating the pilot as STRATRAC shall be placed in the NATOPS jacket.

c. Academic Training. All requirements delineated in the matrix below shall be completed and tracked prior to the STRATRAC evaluation/certification event.

STRATEGIC REFUELING AREA COMMANDER MATRIX

SELF PACED READINGS		DATE COMP
OPNAVINST 3710.7 CH 5.1.12 Formation Flying		
ANTTP 3-22.3-KC-130 CH 2 Air-to-Air Refueling		
ANTTP 3-22.3-KC-130 CH 4 Formation		
ATP-56B Part 1 General Procedures		
ATP-56B Part 2 CH 2 Formation Procedures		
ATP-56B Part 3 CH 3 Formation HAAR Procedures		
Squadron Tactical Systems Operators SOP		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Air Refueling Limitations		
Weather Considerations		
Tanker/Receiver Performance Data		
Multi-Plane AAR Formations		
Tanker/Receiver Fuel Management		
Control/Management of Receivers/Tankers		
Rendezvous Procedures		
Planned Weather Penetration		
Inadvertent Weather Penetration		
Contingency Planning		
Receiver to Hose Ratio		
Abort/Bingo Criteria		
Divert Planning		
NORDO Procedures		
Flight Lead/RAC/Rendezvous Controller Responsibilities		
Refueling Area Commander Brief		
Night Aided/Unaided		

Emergency Air Refueling Procedures		
ADMINISTRATIVE FLIGHT REQUIREMENTS	DATE COMP	INSTRUCTOR
OPARS		
ALTRV Procedures		
Radio Management/Voice Procedures		
International Flight Operations		

d. Crew Requirements. Shall be instructed by a STRATRAC and certified by a STRATRAC/FLSE.

RAC-6313 6.0 * B,SC 2+ KC-130J A (NS)

Goal. Introduction to Strategic Refueling Area Commander (STRATRAC).

Requirement. Conduct long range FW/TR/Helicopter AAR mission planning requirements using PFPS and receiver aircraft considerations. Discuss and introduce coordination of CORONET movements, movement control, ALTRVs, hose factor, contingency planning, RAC functions and rendezvous control. Review radio procedures, NAVAID/radar/TCAS procedures, tanker/receiver management and emergency procedures related to AAR. Demonstrate FW/TR/Helicopter AAR rendezvous planning knowledge. The student will be expected to be thoroughly familiar with ALTRV and long range AAR planning upon attainment of this training evolution.

Performance Standards
1) Conduct mission planning with evolution STRATRAC:
   a. Receiver/tanker fuel requirements.
   b. Determine optimum tanker/receiver routing with consideration of terrain, fuel, refueling area, weather and divert options.
2) Coordinate airspace with ALTRV scheduling facilities and submit a ALTRV request for planned AAR areas.
3) Conduct logistics planning of visiting airfields in order to determine suitability of runway/ramp, aviation services (fuel, customs, lavatory, etc), quarters, messing and transportation for tanker/receiver force.

Prerequisite. Designated DL (6304) and TACRAC (6311), APRB recommendation, CO approval, and STRATRAC academics complete.

Range Requirement. Appropriate SUAS scheduled.

External Support. Appropriate ALTRV coordinated with ALTRV scheduling facilities and FW/TR/Helicopter receiver force.

RAC-6314 8.0 * B,SC,R E 2+ KC-130J A (NS)

Goal. STRATRAC evaluation/certification.

Requirement. Brief, conduct, and control a multi-tanker extended AAR mission. Discuss responsibilities of Refueling Area Commander, lead, Rendezvous Controller, Movement Control Officer, Tanker Force Commander, and Receiver Force Commander. Emphasis on ALTRV execution. This flight shall be evaluated by a STRATRAC/FLSE.

Performance Standards
1) Coordinate overall movement control planning effort to include: ORM analysis, ALTRV scheduling facilities/ALTRV requirements, route, tanker plan, logistics and divert contingencies.
2) Prepare and distribute flight planning products to all applicable tanker/receiver force participants; include: tanker plan, flight/route planning data and IMC penetration plan.
3) Conduct a formal movement briefing for all tanker and receiver force participants; include: route, go/no go criteria, tanker and receiver force rendezvous, refueling area, tanker plan, abort/bingo/ETP locations and criteria, communication, IMC penetration plan, bump plan, divert/contingencies, and logistics.
4) Rendezvous tanker force with receiver force as planned/briefed with due consideration given to changes in forecast weather, fuel planning and safety.
5) Ensure that all fuel transfer is in progress no later than planned/briefed abort points; otherwise direct receiver(s) to divert as applicable.
6) Ensure all AAR is conducted within appropriate airspace.
7) Perform all radio communications between tanker force and receiver force during refueling evolution(s).
8) Manage fuel offload of tanker aircraft according to mission planning, brief, economy and bingo considerations.
9) Manage receiver fueling according to mission planning, brief and divert considerations. Ensure receivers have adequate fuel to arrive at destination with required fuel reserve.
10) Direct planned/inadvertent weather penetration procedures if required for inclement weather.

Prerequisite. RAC-6313.

Range Requirement. Appropriate SUAS scheduled.

External Syllabus Support. Appropriate ALTRV coordinated with ALTRV scheduling facilities and FW/TR/Helicopter receiver force.

RAC-6315 3.0 365 B,SC,R 2+ KC-130J A (NS)

Goal. STRATRAC proficiency.

Requirement. To maintain proficiency as a STRATRAC a pilot shall brief, lead, and debrief (or evaluate a prospective STRATRAC) the designated event in accordance with the mission performance standards for that event.

Prerequisite. RAC-6314.

214. AVIATION CAREER PROGRESSION MODEL (ACPM)

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

a. Stages. The following stages are included in the ACPM:

(1) Core Skill Training Events

(2) Mission Skill Training Events

(3) Flight Leadership Training Events

(a) Section Leader

(b) Division Leader

2. ACPM Core Skill Training Events

a. Purpose. To provide and introduce basic integration of the ACE within the MAGTF and ACE Battle Staff planning.

b. General. The PUI must be qualified as an T3P prior to beginning this stage of training.

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

Learning Objectives

(1) Understand the organization of the MACG and the agencies provided by the MACG that form the MACCS.
(2) Understand the mission and tasks of the Tactical Air Command Center (TACC).
(3) Understand the mission and tasks of the Tactical Air Operations Center (TAOC).
(4) Understand the mission and tasks of marine Air Traffic Control (MATC) and the marine Air Traffic Control Mobile Team (MMT).
(5) Understand the mission and tasks of the Direct Air Support Center (DASC).
(6) Understand the mission and tasks of the Low Altitude Air Defense (LAAD) Battalion.
(7) Understand the mission and tasks of the Marine Unmanned Aerial Vehicle (VMU) squadron.
(8) Understand the mission and tasks of the Marine Wing Communication Squadron (MWCS).

ACPM-8201 0.5 * MWCS Brief

Learning Objectives

(1) From a list be able to identify the core competencies of the MWCS.
(2) Without the aid of reference, describe the organization of the MWCS.
(3) Without the aid of reference, identify key equipment used by the MWCS to support the MACCS.

ACPM-8202 0.8 * ACA and Airspace

Learning Objectives

(1) List the three fundamental principles of airspace command and control.
(2) List and explain the three tenets of the integrated combat airspace command and control system.
(3) Describe the responsibilities of the ACA.
(4) Describe the responsibilities of the AMCT.
(5) Understand the definitions of Air Direction and Air Control as well as the subsets of those two major categories.
(6) List a variety of items encompassed within the ACP.

ACPM-8210 0.7 * Aviation Ground Support

Learning Objectives

(1) Identify the organization responsible for providing Aviation Ground Support (AGS) to the MAW.
(2) Identify the four concepts for MAGTF Forward Operating Bases (FOBs).
(3) Identify the five activities the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.
(4) Identify the four classifications of FOBs and state the distinguishing characteristics of each.
(5) Identify the fourteen functions of AGS.

ACPM-8230 1.0 * ACE Battle Staff

Learning Objectives

(1) To introduce and explain the intel capabilities/products available to the ACE/MAGTF.
(2) To introduce ALSA comm brevity terms.
(3) Introduce functions and responsibilities of ACE Battle Staff.

ACPM-8231 1.0 * Battle Command Display

Learning Objectives

(1) Introduce the Battle Command Display.

ACPM-8240 1.7 * Six Functions of Marine Aviation

Learning Objectives

(1) To better understand the 6 functions of Marine Corps Aviation.

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

Learning Objectives

(1) Understand the ATO cycle and the request process.

(2) Write a technically correct JTAR.
(3) Write a technically correct EW JTAR.
(4) Write a technically correct EARF.
(5) Write a technically correct ASR.
(6) Track submitted air requests using various web-based programs.
(7) Introduce the Automated Tracking System.

ACPM-8242 1.0 * Site Commander Primer

Learning Objectives

(1) Introduce fundamentals and functions of Site Command.

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

Learning Objectives

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

3. ACPM Mission Skill Training Events

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

b. General. The PUI must be qualified as an T3P prior to beginning this stage of training.

ACPM-8300 0.8 * Air Defense

Learning Objectives

(1) Outline the principles of Air Defense.
(2) Understand the composition of an Integrated Air Defense System (IADS).
(3) Define Active and Passive Air Defense.

(4) Identify the (4) primary pillars of Passive Air Defense operations.

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

Learning Objectives

(1) State the mission and objective of a FARP.
(2) Explain the planning considerations of a FARP.
(3) Explain the techniques of employment.
(4) Describe the procedures necessary for movement of aircraft through a FARP and various layouts.

ACPM-8311 0.8 * Marine Corps Tactical Fuel Systems

Learning Objectives

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

ACPM-8320 1.0 * Joint Structure & Joint Air Operations

Learning Objectives

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

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

Learning Objectives

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

Prerequisite. ACPM-8320.

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

Learning Objectives

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

Prerequisite. ACPM-8321.

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

Learning Objectives

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

Prerequisite. ACPM-8322.

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

Learning Objectives

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

Prerequisite. ACPM-8323.

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

Learning Objectives

(1) Understand the primary functions and responsibilities of the AOC.

(2) Understand how the JAOC organizes for the execution phase.
(3) Understand how TBMCS 1.1.3 is used during the execution phase.

Prerequisite. ACPM-8324.

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

Learning Objectives

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

Prerequisite. ACPM-8325.

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

Learning Objectives

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

ACPM-8350 0.8 * Phasing Control Ashore

Learning Objectives

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

ACPM-8351 1.0 * TACRON Organizations and Functions

Learning Objectives

(1) TBD

4. ACPM Flight Leadership Training Events

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

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

(1) Section Leader: ACPM-8630, ACPM-8660.

(2) Division Leader: ACPM-8620, ACPM-8640, ACPM-8641.

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

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

Learning Objectives

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

ACPM-8660 0.4 * Joint Ops Introduction

Learning Objectives

(1) Understand Joint Operation Command relationships.
(2) Understand the main responsibilities for each Functional Component Commander.

ACPM-8620 1.0 * ESG/CSG Integration

Learning Objectives

(1) TBD

ACPM-8640 0.8 * Joint Data Network

Learning Objectives

(1) Understand the four components of the JDN.
(2) Understand the differences between the Single Integrated Air Picture (SIAP), Common Tactical Picture (CTP), and Common Operational Picture (COP).
(3) Understand the differences between Sensor Network(s), Joint Data Network (JDN), and Joint Planning Network (JPN).
(4) Understand how the ACE builds its CTP and how information is shared throughout the ACE and the Marine Air Command and Control System (MACCS).
(5) Know the primary system that will “tie in” the intelligence flow throughout the Marine Aviation Command and Control System (MACCS).

ACPM-8641 1.3 * MAGTF Theater and National ISR Employment

Learning Objectives

(1) Define priority intelligence requirement.
(2) Identify basic tenets of the National Imagery Interpretability Rating Scale.
(3) Recognize strengths and weaknesses of the EO, SAR, and IR sensors found on national satellites.
(4) Know the three categories of SIGINT.
(5) Identify the information requirements used in the UAS planning process.
(6) Identify what effective planning of UAS employment involves.
(7) Identify key planning considerations outlined for UAS employment.
(8) Define “Non-Traditional ISR”.
(9) Identify the most common shortfalls on JTARs submitted for NTISR support.
(10) Identify the most common shortfalls on JTARs submitted for ATARS support.
(11) Identify different imagery products ATARS can provide.

215. SYLABUS MATRICES

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

2. T&R Chaining. Event chaining allows for the completion of more complex and/or advanced events using the same skills to update proficiency status of events. Only events in a sequence entailing demonstration of equivalent skills shall be chained.

a. When a T&R event is logged, the proficiency dates of other T&R events (usually lower in number) may be updated. The T&R code that is logged is known as the “chaining code,” and the updated codes are “chained codes.” Chained codes are not always updated when a chaining code is logged.

b. Conditional Chaining. The following environmental conditions further specify which T&R codes are chain-updated.

(1) Night Optional. Chained codes annotated with parentheses around them, e.g. (2000), are only chain-updated if the chaining code is flown at night.

(2) Night Systems Optional. Chained codes annotated with parentheses and NS after them, e.g. (2000 NS), are only chain-updated if the chaining code is flown using night systems.

(3) Light Level Optional. Chained codes annotated with parentheses and HLL after them, e.g. (2000 HLL), are only chain-updated if the chaining code is flown using night systems during a high light level period. Chained codes annotated with parentheses and LLL after them, e.g. (2000 LLL), are only chain-updated if the chaining code is flown using night systems during a low light level period.

3. Syllabus Event Conversion. The syllabus event conversion information is used to convert T&R syllabus event proficiency status of the previous T&R syllabus into event proficiency status of the current T&R for individuals.

KC-130J PILOT													
1000 CORE SKILL INTRODUCTION													
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
COCKPIT PROCEDURE TRAINER (CPT)													
CPT	1100	Cockpit /Checklist Intro	-	3.0	*	S		D	-	B,T,SC	-	-	001
CPT	1101	CNI-MS/CNBP Intro	-	3.0	*	S		D	1100	B,T,SC	-	-	002
CPT	1102	Comm/Nav Operations	-	3.0	*	S		D	1101	B,T,SC	-	-	003
CPT	1103	AMU/HDD Operation	-	3.0	*	S		D	1102	B,T,SC	-	-	004
CPT	1104	HUD Operation	-	3.0	*	S		D	1103	B,T,SC	-	-	005
CPT	1105	Flight Programming I	-	3.0	*	S/A	1	D	1104	B,T,SC	-	-	006
CPT	1106	Flight Programming II	-	3.0	*	S		D	1105	B,T,SC	-	-	007
CPT	1107	APU/Engine Operation	-	3.0	*	S/A	1	D	1106	ALL	-	-	008
CPT	1108	Prop/Hyd Operation	-	3.0	*	S/A	1	D	1107	ALL	-	-	009
CPT	1109	Electrics/BIU Backup Operation	-	3.0	*	S/A	1	D	1108	ALL	-	-	010
CPT	1110	Bleed Air/ Environmental	-	3.0	*	S/A	1	D	1109	ALL	-	-	011
CPT	1111	Autoflight/Fuel Management Operation	-	3.0	*	S/A	1	D	1110	ALL	-	-	012
			-	36.0									
FAMILIARIZATION (FAM)													
FAM	1112	Visual Flight I	-	4.0	*	S/A	1	D	1111	B,T,SC	-	-	101
FAM	1113	Visual Flight II	-	4.0	*	S/A	1	D	1112	B,T	-	-	102
FAM	1114	Visual Flight III	-	4.0	*	S/A	1	D	1113	B,T,R,MR	-	-	103
FAM	1115	Night Visual Flight	-	4.0	*	S/A	1	N*	1114	B,T,SC	-	-	104
FAM	1116	Instrument Flight - ILS/NDB	-	4.0	*	S/A	1	D	1115	ALL	-	-	105
FAM	1117	Instrument Flight - TACAN/LOC-BC	-	4.0	*	S/A	1	N*	1116	B,T,SC	-	-	106
FAM	1118	Radar Approaches	-	4.0	*	S/A	1	D	1117	B,T	-	-	107
FAM	1119	En Route Operations I	-	4.0	*	S/A	1	D	1118	B,T	-	-	108
FAM	1120	En Route Operations II	-	4.0	*	S/A	1	N*	1119	ALL	-	-	109
FAM	1121	Asymmetric Operations I	-	4.0	*	S/A	1	D	1120	B,T,SC	-	-	110
FAM	1122	Asymmetric Operations II	-	4.0	*	S		D	1121	ALL	-	-	111
FAM	1123	Asymmetric Operations III	-	4.0	*	S		N*	1122	B,T	-	-	112
FAM	1124	Special Procedures	-	4.0	*	S		D	1123	B,T,SC	-	-	113
FAM	1125	Electric/Flap/ Prop EPs	-	4.0	*	S		D	1124	B,T,SC	-	-	114
FAM	1126	Hydraulic/ Flight Control EPs	-	4.0	*	S/A	1	D	1125	B,T	-	-	115
FAM	1127	Landing Gear EPs	-	4.0	*	S/A	1	D	1126	B,T	-	-	116
FAM	1128	Autoflight I	-	4.0	*	S/A	1	D	1127	B,T,SC	-	-	117
FAM	1129	Autoflight II	-	4.0	*	S/A	1	N*	1128	B,T	-	-	118
FAM	1130	Review Flight	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	119
FAM	1131	ATU Evaluation	-	4.0	*	S/A	1	D	1130	ALL	E	-	120
FAM	1132	Preflight/ Emergency Equipment	3.0	-	*	A	1	D	1111	B,T,SC	-	-	121
			3.0	80.0									

KC-130J PILOT													
1000 CORE SKILL INTRODUCTION													
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NIGHT SYSTEMS HIGH (NS(H))													
NS(H)	1150	Intro to NVD Procedures	-	4.0	*	S/A	1	NS	1129	B,T,SC	-	-	122
			-	4.0									
LONG RANGE NAVIGATION (LRN)													
LRN	1160	Intro to LRN Procedures	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	191
			-	4.0									
TACTICAL NAVIGATION (TN)													
TN	1200	Intro to TN Procedures	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	123
TN	1201	Advanced TN Procedures	-	4.0	*	S/A	1	D	1200	B,T,SC	-	-	124
TN	1202	Intro to Tactical Maneuvers	-	4.0	*	S/A	1	D	1201	B,T,SC	-	-	125
			-	12.0									
FORMATION (FORM)													
FORM	1300	Intro to Sec FORM Procedures	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	181
			-	4.0									
THREAT REACTION (TR)													
TR	1400	Intro to IR TR	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	131
			-	4.0									
ASSUALT LANDING ZONE (ALZ)													
ALZ	1500	Intro to ALZ Procedures	-	4.0	*	S/A	1	D	1129	B,T	-	-	151
ALZ	1501	Intro to Tactical Arrivals	-	4.0	*	S/A	1	D	1500	B,T,SC	-	-	152
				8.0									
AIR TO AIR REFUELING (AAR)													
AAR	1600	Intro to FWAAR / TRAAR Procedures	-	4.0	*	S/A	1	D	1129	B,T	-	-	141
AAR	1601	Intro to HAAR Procedures	-	4.0	*	S/A	1	D	1600	B,T	-	-	142
			-	8.0									
AIR DELIVERY (AD)													
AD	1700	Intro to AD Procedures	-	4.0	*	S/A	1	D	1129	B,T,SC	-	-	171
			-	4.0									
FAMILIARIZATION (Flight Phase conducted at Fleet Squadron)													
FAM	1800	FAM	2.0	-	*	A	1	D	1131, 1132	ALL	-	-	195
FAM	1801	FAM	2.0	-	*	A	1	(N*)	1800	B,T,SC	-	-	196
FAM	1802	FAM	2.0	-	*	A	1	(N*)	1801	ALL	-	-	197
FAM	1803	FAM	2.0	-	*	A	1	D	1802	B,T,SC	-	-	198
FAM	1804	FAM	2.0	-	*	A	1	(N*)	1803	ALL	-	-	199
			10.0	-									
TOTALS		FLT HRS	13.0	164.0	SIM HOURS								

KC-130J PILOT													
2000 CORE SKILL													
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NIGHT SYSTEMS (NS)													
NS(H)	2150	HLL NVD Procedures	2.0	-	90	A/S	1	NS	-	ALL	-	-	202
NS(H)	2151	LLL NVD Procedures	2.0	-	90	A/S	1	NS	2150	ALL	-	2150	203
			4.0	-									
LONG RANGE NAVIGATION (LRN)													
LRN	2160	Constant TAS LRN	6.0	-	*	A	1	(N)	-	B,T,SC	-	(2150 NS HLL, 2151 NS LLL)	210
LRN	2161	Long Range Cruise LRN	6.0	-	*	A	1	(N)	-	B,T,SC	-	(2150 NS HLL, 2151 NS LLL)	211
LRN	2162	LRN	6.0	-	365	A	1	(N)	2160, 2161	ALL	-	(2150 NS HLL, 2151 NS LLL)	213
			18.0	-									
TACTICAL NAVIGATION (TN)													
TN	2200	Tactical Time NAV (PM)	2.0	-	*	A/S	1	D	-	ALL	-	-	220
TN	2201	TN Procedures (PF)	2.0	-	365	A/S	1	D	2200	ALL	-	-	221
TN	2250	HLL TN Procedures (PF)	2.0	-	180	A/S	1	NS	2150, 2201	ALL	-	2150, 2201	222
TN	2251	LLL TN Procedures (PF)	2.0	-	180	A/S	1	NS	2151, 2250	ALL	-	2150, 2151, 2201, 2250	223
			8.0	-									
LOW ALTITUDE TACTICS (LAT)													
LAT	2260	Intro to LAT Procedures	-	2.0	*	S/A	1	D	2201	B,T,SC	-	-	320
LAT	2261	LAT Procedures	2.0	-	180	A	1	D	2260	ALL	-	2201	321
			2.0	2.0									
FORMATION (FORM)													
FORM	2300	Section FORM Procedures	3.0	-	365	A/S	2	D	-	ALL	-	-	230
FORM	2301	Division FORM Procedures	3.0	-	365	A	3+	(NS)	2300, (2350, #)?	ALL	-	2300, (2150 HLL, 2151 LLL, 2350)	330
FORM	2350	Night FORM Procedures	2.0	-	180	A/S	2	NS	2300, #, 2301 if Division	ALL	-	2150 HLL, 2151 LLL, 2300	231
			8.0	-									
THREAT REACTION (TR)													
TR	2400	Ground IR TR	2.0	-	180	A/S	1	(NS)	2260	ALL	-	(2150 HLL, 2151 LLL)	340
			2.0	-									
TOTALS		FLT HRS	42.0	2.0	SIM HOURS								
# = Pilot must be NSQ (H) or event flown with a NSI if using NVDs.													

KC-130J PILOT													
3000 MISSION SKILL													
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
ASSAULT LANDING ZONE (ALZ)													
ALZ	3500	ALZ Procedures	2.0	-	180	A/S	1	D	-	ALL	-	-	260
ALZ	3501	Tactical Arrivals	2.0	-	365	A/S	1	(NS)	(#)	ALL	-	(2150 HLL, 2151 LLL)	262
ALZ	3502	Combat Offload	0.5	-	730	A	1	(N)	6100, (#)	ALL	-	(2150 NS HLL, 2151 NS LLL)	263
ALZ	3503	Unimproved Ground Operations	0.5	-	*	A	1	(NS)	6100, (#)	ALL	-	(2150 HLL, 2151 LLL)	360
ALZ	3550	Night ALZ Procedures	2.0	-	180	A/S	1	NS	2150 HLL, 2151 LLL, 3500, #	ALL	-	2150 HLL, 2151 LLL, 3500	261
			7.0	-									
AIR-TO-AIR REFUELING (AAR)													
AAR	3600	FWAAR/TRAAR Procedures	2.0	-	365	A/S	1	(N)	(#)	ALL	-	(2150 NS HLL, 2151 NS LLL)	250
AAR	3601	Day HAAR Procedures	2.0	-	365	A/S	1	D	-	ALL	-	-	252
AAR	3650	Night HAAR Procedures	2.0	-	180	A/S	1	NS	3601, (#)	ALL	-	2150 HLL, 2151 LLL, 3601	253
			6.0	-									
RAPID GROUND REFUELING (RGR)													
RGR	3660	RGR Procedures	1.0	-	730	A	1	(NS)	(#)	ALL	-	(2150 HLL, 2151 LLL)	370
			1.0	-									
AIR DELIVERY (AD)													
AD	3700	Intro to PF AD	-	2.0	*	S/A	1	(NS)	2200, 2201, (#)	B,T,SC	-	(2150 HLL, 2151 LLL)	380
AD	3701	Intro to PM AD	-	2.0	*	S/A	1	(NS)	3700, (#)	B,T,SC	-	(2150 HLL, 2151 LLL)	381
AD	3702	PF Cargo AD	2.0	-	90	A/S	1	(NS)	3701, (#)	ALL	-	(2150 HLL, 2151 LLL), ! [3703, 3704, 3705]	382
AD	3703	PM Cargo AD	2.0	-	90	A/S	1	(NS)	3702, (#)	ALL	-	(2150 HLL, 2151 LLL), ! [3702, 3704, 3705]	383
AD	3704	PF Personnel AD	2.0	-	90	A/S	1	(NS)	3701, (#)	ALL	-	(2150 HLL, 2151 LLL), ! [3702, 3703, 3705]	480
AD	3705	PM Personnel AD	2.0	-	90	A/S	1	(NS)	3704, (#)	ALL	-	(2150 HLL, 2151 LLL), ! [3702, 3703, 3704]	481
			8.0	4.0									
TOTALS		FLT HRS	22.0	4.0	SIM HOURS								
# = Pilot must be NSQ (H) or event flown with a NSI if using NVDs.													
! = 3702-3705 will chain any previously acquired code within the Stage.													

KC-130J PILOT													
4000 CORE PLUS													
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
TACTICAL NAVIGATION (TN)													
TN	4200	FORM TN Procedures	3.0	-	365	A	2+	(NS)	2201, 2300, (NSQ(H), 2350), LATQ if LAT, (NSLATQ if LAT)	ALL	-	2201,2300, (2150 HLL, 2151 LLL, 2250 HLL, 2251 LLL, 2350)	422
			3.0	-									
NIGHT SYSTEMS LOW (NS(L))													
NS(L)	4250	Intro to HLL LAT Procedures	-	2.0	*	S		NS	NSQ(H), LATQ	ALL	-	-	420
NS(L)	4251	HLL LAT Procedures	2.0	-	180	A	1	NS	4250	ALL	-	2150, 2261, 2250	421
			2.0	2.0									
THREAT REACTION (TR)													
TR	4400	Intro to Ground Radar TR	-	2.0	*	S/A	1	(NS)	2260	B,T,SC	-	(2150 HLL, 2151 LLL)	341
TR	4401	Ground Radar TR	2.0	-	180	A	1	(NS)	4400	ALL	-	(2150 HLL, 2151 LLL)	342
			2.0	2.0									
DEFENSIVE TACTICS (DT)													
DT	4410	DT vs One Adversary	2.0	-	365	A	1	D	2400, LATQ	ALL	-	-	440
DT	4411	DT vs Two Adversaries	2.0	-	365	A	1	D	4410	ALL	-	4410	441
			4.0	-									
AIR-TO-AIR REFUELING (AAR)													
AAR	4600	AAR System / Panel Procedures	-	2.0	180	S/A	1	(N)	3600, 3601, 3650, & (#)	ALL	-	(2150 NS HLL, 2151 NS LLL)	254
			-	2.0									
AIR DELIVERY (AD)													
AD	4700	Combination AD	2.0	-	365	A	1	(NS)	3702, 3703, 3704,3705, (#)	ALL	-	(2150 HLL, 2151 LLL), 3702-3705	482
AD	4701	Military Free Fall AD	2.0	-	365	A	1	(NS)	3701, (#)	ALL	-	(2150 HLL, 2151 LLL)	483
AD	4702	JPADS	2.0	-	365	A	1	(NS)	3703, (#)	ALL	-	(2150 HLL, 2151 LLL)	484
			6.0	-									
BATTLEFIELD ILLUMINATION (BI)													
BI	4710	Battlefield Illumination	2.0	-	365	A	1	N	3701, (#)	ALL	-	(2150 NS HLL, 2151 NS LLL)	485
			2.0	-									
TOTALS		**FLT HRS**	19.0	6.0	**SIM HOURS**								
# = Pilot must be NSQ (H) or event flown with a NSI if using NVDs.													

KC-130J PILOT														
5000 INSTRUCTOR TRAINING														
STAGE	TRNG CODE	EVENT DESC	FLT HOURS	SIM HOURS	ACAD HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
BASIC INSTRUCTOR PILOT (BIP)														
BIP	5100	BIP Training	2.0	-	-	*	A/S	1	(NS)	2200, 2201, NSQ(H), LATQ	-	E	(2150 HLL, 2151 LLL, 2250 HLL, 2251 LLL), 2201	520
BIP	5101	BIP Check	2.0	-	-	*	A/S	1	NS	3600, 3601, 3650, 3660, 4600, 5100	-	E	2150 HLL, 2151 LLL, 3601, 3650	550
			4.0	-	-									
NATOPS/ASSISTANT NATOPS INSTRUCTOR (NI/ANI)														
NI	5140	NI/ANI Training	-	2.0	-	*	S/A	1	(N)	-	-	E	(2150 NS HLL, 2151 NS LLL)	500
NI	5141	NI/ANI Check	-	2.0	-	*	S/A	1	(N)	5140	-	E	(2150 NS HLL, 2151 NS LLL)	501
			-	4.0	-									
FLEET REPLACEMENT SQUADRON INTRODUCTION (FRSI)														
FRSI	5145	FRSI Training	-	2.0	-	*	S/A	1	(N)	5141	-	E	(2150 NS HLL, 2151 NS LLL)	510
FRSI	5146	FRSI Training	-	2.0	-	*	S/A	1	(N)	5145	-	E	(2150 NS HLL, 2151 NS LLL)	511
FRSI	5147	FRSI Check	-	2.0	-	*	A	1	(N)	5146	-	E	(2150 NS HLL, 2151 NS LLL)	512
			-	6.0	-									
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)														
FLSE	5320	FLSE Certification	3.0	-	-	*	A	2+	(NS)	6304	R	E	(2150 HLL, 2151 LLL)	555
FLSE	5321	FLSE Annual Training	-	-	1.0	365	-	-	-	5320	-	-	-	657
			3.0	-	1.0									
STAGE INSTRUCTOR														
ALZ	5500	ALZ Stage Instructor Check	2.0	-	-	*	A	1	NS	3500-3503, 3550, BIP, & either ANI/NI or NSI	-	E	2150 HLL, 2151 LLL, 3500, 3550	560
AD	5700	AD Stage Instructor Training	-	2.0	-	*	S/A	1	(NS)	3700-3705, 4710, BIP, & either 4700, 4701, or 4702	-	E	(2150 HLL, 2151 LLL), 3702, 3703, 3704, 3705	580
AD	5701	AD Stage Instructor Check	2.0	-	-	*	A	1	(NS)	5700	-	E	(2150 HLL, 2151 LLL), 3702-3705	581
			4.0	2.0	-									
MAWTS-1 POI														
NS(H)	5150	NS(H) FAM IUT	2.0	-	-	*	A	1	NS	BIP, 100 hours total NVD time (minimum 50 hours LLL), $	-	E	2150 HLL, 2151 LLL	503
NS(H)	5151	NS(H) TN IUT	2.0	-	-	*	A	1	NS	5150, $	-	E	2150 HLL, 2151 LLL, 2250 HLL, 2251 LLL	504
NS(H)	5152	NSI Certification	2.0	-	-	*	A	1	NS	5151, $	-	E	2150 HLL, 2151 LLL, 2250 HLL, 2251 LLL	505
LAT	5210	LAT IUT	2.0	-	-	*	A	1	D	2400, 4401, BIP, $	-	E	2201, 2261	522
LAT	5211	LAT IUT	2.0	-	-	*	A	1	D	5210, $	-	E	2201, 2261	523
LAT	5212	LATI Certification	2.0	-	-	*	A	1	D	5211, $	-	E	2201, 2261	524
NS(L)	5250	NSLAT IUT	2.0	-	-	*	A	1	NS	NSI, WTI, $	-	E	2150 HLL, 2250 HLL, 2201, 2261	525
NS(L)	5251	NSLATI Certification	2.0	-	-	*	A	1	NS	5250, $	-	E	2150 HLL, 2250 HLL, 2201, 2261	526
DT	5410	DT IUT	1.0	-	-	*	A	1	D	DTQ, LATI, $	-	E	-	543
DT	5411	DT IUT	1.0	-	-	*	A	1	D	5410, $	-	E	-	544
DT	5412	DTI Certification	1.0	-	-	*	A	1	D	5411, $	-	E	-	545
			19.0	-	-									
TOTALS			30.0	12.0	1.0									
$ = Refer to the MAWTS-1 KC-130J Course Catalog														

KC-130J PILOT													
5000 CONTRACT INSTRUCTOR TRAINING													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NATOPS INSTRUCTOR (NI)													
NI	5142	CI NI Training	-	2.0	*	S		(N)	-	-	E	-	-
NI	5143	CI NI Check	-	2.0	*	S		(N)	5142	-	E	-	-
			-	4.0									
NIGHT SYSTEMS INSTRUCTOR (NSI)													
NS(H)	5153	NS(H) IUT	-	4.0	*	S		NS	-	-	E	-	-
NS(H)	5154	CI NSI Certification	-	4.0	*	S		NS	5153	-	E	-	-
			-	8.0									
LOW ALTITUDE TACTICS INSTRUCTOR (LATI)													
LAT	5213	LAT IUT	-	2.0	*	S		D	-	-	E	-	-
LAT	5214	CI LATI Certification	-	2.0	*	S		D	5213	-	E	-	-
			-	4.0									
STAGE INSTRUCTOR													
LRN	5160	CI LRN Stage Instructor Check		4.0	*	S		(N)	-	-	E	-	-
TN	5200	CI TN Stage Instructor Check	-	4.0	*	S		(NS)	-	-	E	-	-
FORM	5300	CI FORM Stage Instructor Check	-	4.0	*	S		(NS)	-	-	E	-	-
TR	5400	CI IR TR Stage Instructor Check	-	4.0	*	S		D	-	-	E	-	-
ALZ	5501	CI ALZ Stage Instructor Check	-	4.0	*	S		(NS)	-	-	E	-	-
AAR	5600	CI AAR Stage Instructor Check	-	4.0	*	S		(NS)	-	-	E	-	-
AD	5702	CI AD Stage Instructor Check	-	4.0	*	S		(NS)	-	-	E	-	-
			-	32.0									
TOTALS		**FLT HRS**	-	44.0	**SIM HOURS**								

KC-130J PILOT 6000 REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS														
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	ACADEMIC HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
FCP	6005	FCP Exam	-	-	1.0	*	-	-	-	6118	ALL	E	-	-
NTPS	6010	NATOPS Open Book Exam	-	-	3.0	365	-	-	-	-	ALL	E	-	-
NTPS	6011	NATOPS Closed Book Exam	-	-	1.0	365	-	-	-	-	ALL	E	-	-
NTPS	6012	NATOPS Oral Exam	-	-	3.0	365	-	-	-	-	ALL	E	-	-
NTPS	6013	Tactics Exam	-	-	1.0	*	-	-	-	6110	ALL	E	-	-
INST	6030	Instrument Ground School / Open Book Exam	-	-	8.0	365	-	-	-	-	ALL	E	-	-
INST	6031	Instrument Oral Exam	-	-	3.0	365	-	-	-	-	ALL	E	-	-
RQD	6100	Left Seat FAM	2.0	-	-	*	A	1	D	-	ALL	-	-	600
FCP	6105	Partial FCP Designation	4.0	-	-	*	A/S	1	D	6005	-	E	-	609
FCP	6106	FCP Designation	4.0	-	-	*	A/S	1	D	6105	-	E	-	610
FCP	6107	FCP Proficiency	1.0	-	-	180	A/S	1	D	6105 or 6106	-	-	-	-
NTPS	6110	T3P NATOPS Designation	2.0	-	-	365	A/S	1	(N)	Core Skill Intro Phase Complete, *	ALL	E	(2150 NS HLL, 2151 NS LLL)	690
NTPS	6111	T2P NATOPS Designation	-	2.0	-	365	S/A	1	(N)	82XX Phase Complete, 6013, *	ALL	E	(2150 NS HLL, 2151 NS LLL)	691
NTPS	6112	TPC Upgrade SIM	-	3.0	-	*	S		(N)	6111, NSQ(H)	ALL	-	(2150 NS HLL, 2151 NS LLL)	692
NTPS	6113	TPC Upgrade SIM	-	3.0	-	*	S		(N)	6112	ALL	-	(2150 NS HLL, 2151 NS LLL)	693
NTPS	6114	TPC Upgrade SIM	-	3.0	-	*	S		(N)	6113	ALL	-	(2150 NS HLL, 2151 NS LLL)	694
NTPS	6115	TPC Upgrade SIM	-	3.0	-	*	S		(N)	6114	ALL	-	(2150 NS HLL, 2151 NS LLL)	695
NTPS	6116	TPC Upgrade SIM	-	3.0	-	*	S		(N)	6115	ALL	-	(2150 NS HLL, 2151 NS LLL)	696
NTPS	6117	TPC Route Check	18.0	-	-	*	A	1	(N)	6116	B,T,SC	-	(2150 NS HLL, 2151 NS LLL)	697
NTPS	6118	TPC NATOPS Designation	2.0	-	-	365	A/S	1	(N)	6117, 83XX Phase Complete, *	ALL	E	(2150 NS HLL, 2151 NS LLL)	698
NTPS	6120	Emergency Procedure Review	-	1.0	-	90	S/A	1	(N)	-	ALL	-	(2150 NS HLL, 2151 NS LLL)	-
INST	6130	Standard instrument Check	-	2.0	-	365	S/A	1	(N)	6030, 6031	ALL	E	(2150 NS HLL, 2151 NS LLL)	606
INST	6131	Special instrument Check	-	2.0	-	365	S/A	1	(N)	6030, 6031, 6130	ALL	E	(2150 NS HLL, 2151 NS LLL)	607
SL	6300	Section Leader Practice	3.0	-	-	*	A	2	(NS)	2300, 2301, 2350, 3000 phase complete, 100 hrs as a TPC, 2 flights as a TPC/wingman, NSQ(H), BIP, SL academics	B,T	-	(2150 HLL, 2151 LLL)	631
SL	6301	Section Leader Certification	3.0	-	-	*	A	2	(NS)	6300	ALL	E	(2150 HLL, 2151 LLL)	632
SL	6302	Section Leader Proficiency	2.0	-	-	365	A	2	(NS)	6301	ALL	-	(2150 HLL, 2151 LLL)	633
DL	6303	Division Leader Practice	3.0	-	-	*	A	3+	(NS)	200 hrs as a TPC, 2 flights as a SL, DL academics	B,T	-	(2150 HLL, 2151 LLL)	634
DL	6304	Division Leader Certification	3.0	-	-	*	A	3+	(NS)	6303	ALL	E	(2150 HLL, 2151 LLL)	635
DL	6305	Division Leader Proficiency	2.0	-	-	365	A	3+	(NS)	6304	ALL	-	(2150 HLL, 2151 LLL)	636
RAC	6310	Intro to TACRAC	3.0	-	-	*	A	2+	(NS)	3600, 6111	B,T,SC	-	(2150 HLL, 2151 LLL)	651
RAC	6311	TACRAC Certification	3.0	-	-	*	A	2+	(NS)	6300, 6310	ALL	E	(2150 HLL, 2151 LLL)	652
RAC	6312	TACRAC Proficiency	2.0	-	-	365	A	2+	(NS)	6311	ALL	-	(2150 HLL, 2151 LLL)	653

KC-130J PILOT 6000 REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS														
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	ACADEMIC HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
RAC	6313	Intro to STRATRAC	6.0	-	-	*	A	2+	(NS)	6304, 6311	B,T,SC	-	(2150 HLL, 2151 LLL)	654
RAC	6314	STRATRAC Certification	8.0	-	-	*	A	2+	(NS)	6313	ALL	E	(2150 HLL, 2151 LLL)	655
RAC	6315	STRATRAC Proficiency	3.0	-	-	365	A	2+	(NS)	6314	ALL	-	(2150 HLL, 2151 LLL)	656
TOTALS			74.0	22.0	20.0									
$ = Refer to MAWTS-1 KC-130J Course Catalog.														
* = Completion of NTPS-6010, NTPS-6011, and NTPS-6012.														

KC-130J PILOT 8000 AVIATION CAREER PROGRESSION MODEL												
STAGE	TRNG CODE	EVENT DESC	ACAD HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
ACPM CORE SKILL												
ACPM	8200	MACCS AGENCIES, FUNCTIONS, AND CONTROL OF AIRCRAFT AND MISSILES	0.5	*	-	-	-	-	ALL	-	-	-
ACPM	8201	MWCS BRIEF	0.5	*	-	-	-	-	ALL	-	-	-
ACPM	8202	ACA AND AIRSPACE	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8210	AVIATION GROUND SUPPORT	0.7	*	-	-	-	-	ALL	-	-	-
ACPM	8230	ACE BATTLE STAFF	1.0	*	-	-	-	-	ALL	-	-	-
ACPM	8231	BATTLE COMMAND DISPLAY	1.0	*	-	-	-	-	ALL	-	-	-
ACPM	8240	SIX FUNCTIONS OF MARINE AVIATION	1.7	*	-	-	-	-	ALL	-	-	-
ACPM	8241	JTAR / ASR INTRODUCTION AND PRACTICAL APPLICATION	1.3	*	-	-	-	-	ALL	-	-	-
ACPM	8242	SITE COMMANDER PRIMER	1.0	*	-	-	-	-	ALL	-	-	
ACPM	8250	THEATER AIR GROUND SYSTEM (TAGS)	0.8	*	-	-	-	-	ALL		-	
			9.3									
ACPM MISSION SKILL												
ACPM	8300	AIR DEFENSE	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8310	FORWARD ARMING REFUELING POINT (FARP) OPERATIONS	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8311	MARINE CORPS TACTICAL FUEL SYSTEMS	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8320	JOINT STRUCTURE AND JOINT AIR OPERATIONS	1.0	*	-	-	-	-	ALL	-	-	-
ACPM	8321	JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEVELOPMENT	0.3	*	-	-	-	8320	ALL	-	-	-
ACPM	8322	JOINT AIR TASKING CYCLE PHASE 2: TARGET DEVELOPMENT	0.3	*	-	-	-	8321	ALL	-	-	-
ACPM	8323	JOINT AIR TASKING CYCLE PHASE 3: WEAPONEERING AND ALLOCATION	0.3	*	-	-	-	8322	ALL	-	-	-
ACPM	8324	JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PRODUCTION	0.3	*	-	-	-	8323	ALL	-	-	-
ACPM	8325	JOINT AIR TASKING CYCLE PHASE 5: FORCE EXECUTION	0.3	*	-	-	-	8324	ALL	-	-	-
ACPM	8326	JOINT AIR TASKING CYCLE PHASE 6: COMBAT ASSESSMENT	0.3	*	-	-	-	8325	ALL	-	-	-
ACPM	8340	INTEGRATING FIRES & AIRSPACE WITHIN IN MAGTF	0.5	*	-	-	-	-	ALL	-	-	-
ACPM	8350	PHASING CONTROL ASHORE	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8351	TACRON ORGANIZATIONS & FUNCTIONS	1.0	*	-	-	-	-	ALL	-	-	-
			7.5									

KC-130J PILOT												
8000 AVIATION CAREER PROGRESSION MODEL												
STAGE	TRNG CODE	EVENT DESC	ACAD HOURS	REFLY INTVL	DEVICE	# OF A/C	COND	PREREQ	POI	EVAL	CHAINING	EVENT CONV
ACPM FLIGHT LEADERSHIP												
SECTION LEADER												
ACPM	8630	TACTICAL AIR COMMAND CENTER (TACC)	1.0	*	-	-	-	-	ALL	-	-	-
ACPM	8660	JOINT OPS INTRO	0.4	*	-	-	-	-	ALL	-	-	-
			1.4									
DIVISION LEADER												
ACPM	8640	JOINT DATA NETWORK	0.8	*	-	-	-	-	ALL	-	-	-
ACPM	8641	MAGTF THEATER AND NATIONAL ISR EMPLOYMENT	1.3	*	-	-	-	-	ALL	-	-	-
ACPM	8620	ESG / CSG INTEGRATION	1.0	*	-	-	-	-	ALL	-	-	-
			3.1									
TOTALS		ACADEMIC HRS	21.3									

216. SYLLABUS EVALUATION FORMS. MAWTS-1, the syllabus sponsor, maintains and updates training and readiness gradesheets.

217. SIMULATOR MISSION ESSENTIAL SUBSYSTEM MATRIX (MESM)

KC-130J SIMULATOR MISSION ESSENTIAL SUBSYSTEM MATRIX (MESM) (2F199)		
Failed Sub-System	**PMC For:**	**NMC For:**
Hydraulics	Any CPT	Any other event
Aural	Any CPT	Any initial event
Visual	Any CPT	Any other event
NVG Visual		Any NS event
NVIS Lighting		Any event conducted with NVGs
TEN		Any TR event
Lead-ship		Any FORM event
RadAlts (2)	1 failed RadAlt: Any event	Both RadAlts failed: Any TN or LAT event
DIGIMAP		LAT or any initial TN event
HUD (2)	1 failed HUD: CPT 1100-1103 and 1106-1110	Both HUDs failed: Any LAT; TN; or ALZ event; CPT 1104, 1105, 1111
Flight Director	Any event	
Normal Trim	1 failed yoke trim switch: Any event	Both yoke trim switches failed: Any event
AMU (2)	1 failed AMU: Any event	Both AMUs failed: Any event
CNBP (1)	1 failed CNBP: Any event	
HDD (4 Pilot HDDs)	1 failed HDD: Any event	2 failed HDDs: Any event
CNI-MU (3)	1 failed CNI-MU: Any event	2 failed CNI-MUs: Any event
MC (2)	1 failed MC: Any event	Both MCs failed: Any event
Stdby Attitude	Any event	
Stdby A/S, altimeter	Any event	

CHAPTER 3

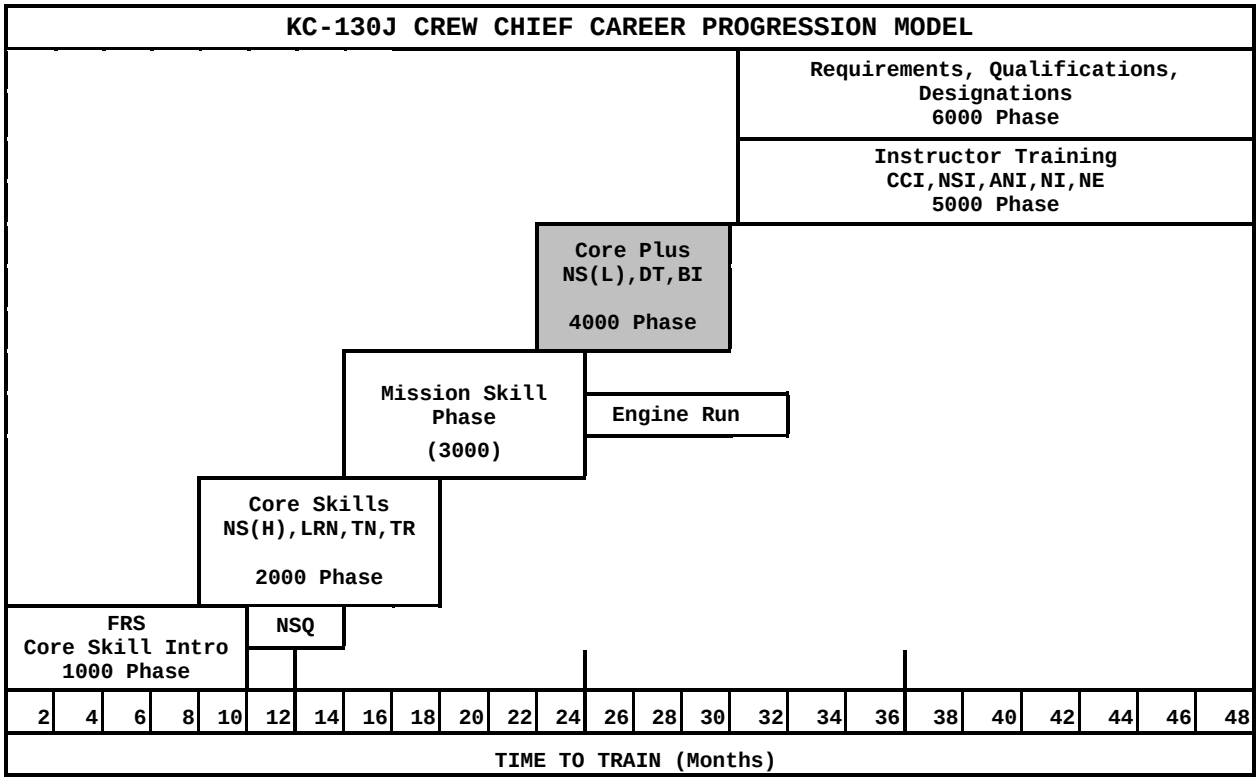
KC-130J CREW CHIEF/6276

CHAPTER 3

KC-130J CREW CHIEF/6276

300. KC-130J CREW CHIEF 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.

301. CREW CHIEF TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average KC-130J Crew Chief. Units should use the model as a point of departure to generate individual training plans.



302. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated below.

1. Events Required to Attain Individual CSP. To attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) ATTAIN TABLE KC-130J CREW CHIEF						
T&R events required to Attain CSP (2000 Phase)						
NS(H)	LRN	TN	LAT	SEC FORM	DIV FORM	TR
2150R	2162R	2201R 2250R	2261R			2400R
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

2. Events Required to Maintain Individual CSP. To maintain CSP in a Core Skill, an individual must maintain proficiency in all 2000 phase T&R Events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) MAINTAIN TABLE KC-130J CREW CHIEF						
T&R events required to Maintain CSP (2000 Phase)						
NS(H)	LRN	TN	LAT	SEC FORM	DIV FORM	TR
2150R	2162R	2201R 2250R	2261R			2400R
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

303. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. To be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated below.

1. Events Required to Attain Individual MSP. To attain MSP in a Mission Skill, an individual must simultaneously have a proficient status in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE KC-130J CREW CHIEF				
T&R events required to Attain MSP (3000 Phase)				
ALZ	CPL	AAR	RGR	AD
3503R		3600R 3601R 3610R 3611R 3612R 3650R	3661R 3651R	3702R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

2. Events Required To Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE KC-130J CREW CHIEF				
T&R events required to Maintain MSP (3000 Phase)				
ALZ	CPL	AAR	RGR	AD
3503R		3600R 3601R 3612R 3650R	3661R 3651R	3702R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

3. Events Required to Attain Individual Proficiency in Core Plus/Mission Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus Skills is at the discretion of the unit commanding officer. To attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events

listed for that Core Plus Skill.

INDIVIDUAL CORE PLUS PROFICIENCY (CSP+) ATTAIN TABLE KC-130J CREW CHIEF					
T&R events required to Attain CSP+ (4000 Phase)					
NS(L)	**TN**	**DT**	**AAR**	**AD**	**BI**
4251R		4410R			4710R
Gray highlight & an R suffix on the event code = Refresher POI					
An S prefix on the event code = Event conducted in a simulator					

4. Events Required to Maintain Individual Proficiency in a Core Plus/Mission Plus Skills. To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

INDIVIDUAL CORE PLUS PROFICIENCY (CSP+) MAINTAIN TABLE KC-130J CREW CHIEF					
T&R events required to Maintain CSP+ (4000 Phase)					
NS(L)	**TN**	**DT**	**AAR**	**AD**	**BI**
4251R		4410R			4710R
Gray highlight & an R suffix on the event code = Refresher POI					
An S prefix on the event code = Event conducted in a simulator					

304. REQUIREMENTS, QUALIFICATION AND DESIGNATION TABLES. The tables below delineate T&R events required to be completed to attain proficiency, and initial qualifications and designations. In addition to event requirements, all required stage lectures, briefs, squadron training, prerequisites and other criteria shall be met prior to completing final events. Certification, qualification and designation letters signed by the commanding officer shall be placed in Aircrew Performance Records (APR). 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.

INDIVIDUAL QUALIFICATION REQUIREMENTS	
Qualification	Event Requirements
Crew Chief 1	IAW OPNAVINST 3710.7 and 1000 phase complete
Crew Chief 2	IAW OPNAVINST 3710.7 and 2000 phase complete
Crew Chief 3	6017, 6018, and Completion of the Engine Run Syllabus
Night Systems Qualified	2150R, IAW the MAWTS-1 KC-130J Course Catalog

INDIVIDUAL DESIGNATION REQUIREMENTS	
Designation	Event Requirements
CCI	Upon completion of 5100, 5101, & 5102 the Commanding Officer will designate the IUT a CC Instructor.
NSI	IAW the MAWTS-1 Course Catalog, 5150, 5151, 5152
ANI	Upon successful completion of evaluation flight 5140 the Commanding Officer may designate the CCUI an Assistant NATOPS Instructor.
NI / NE	Upon successful completion of evaluation flight 5140 the Commanding Officer may designate the CCUI a NATOPS Instructor.

305. CREW CHIEF PROGRAMS OF INSTRUCTION

1. Basic (B) POI

Weeks	Course/Level	Activity
1-6	Naval Aircrewman Candidate School (NACCS)	NAS Pensacola, FL
7-8	Survival, Evasion, Resistance, and Escape Course	NAS North Island, FL NAS Brunswick, ME
9-28	KC-130J Crew Chief Organizational Ground Maintenance Course "A & C" School	Little Rock AFB, AR
29-44	Core Skill Introduction Training	ATU / Tactical Squadron
45-56	Core Skill Training	Tactical Squadron
57-64	Mission Skill Training	Tactical Squadron
65-67	Core Skill Plus Training	Tactical Squadron
68-88	Plane Captain Training	Tactical Squadron
89-95	Engine Run Training	Tactical Squadron
96-98	Function Check Flight Training	Tactical Squadron

2. Series Conversion (SC) POI

Weeks	Course/Level	Activity
1-6	Academic Ground Training	Little Rock AFB, AR
7-19	Core Skill Introduction Training	Tactical Squadron
20-28	Core Skill Training	Tactical Squadron
29-36	Mission Skill Training	Tactical Squadron
37-40	Core Skill Plus Training	Tactical Squadron
41-56	Plane Captain Training	Tactical Squadron
57-62	Engine Run Training	Tactical Squadron
63-65	Function Check Flight Training	Tactical Squadron

3. Refresher POI

Weeks	Course/Level	Activity
1-2	Academic Ground Training	Tactical Squadron
3-8	Core Skill Introduction Training	Tactical Squadron
9-25	Core Skill Training	Tactical Squadron
26-45	Mission Skill Training	Tactical Squadron
46-86	Core Skill Plus Training	Tactical Squadron

306. ACADEMIC TRAINING

1. Academic training shall be conducted by ATU Instructors, Tactical Squadron Instructors and WTIs for each phase/stage of the syllabus. Computer Based Training (CBT) should be used to enhance learning. Where indicated, standardized academic training materials and CBT exist and may be obtained from the sponsoring activity. CBT will be tracked by ATU and squadron ACT instructors using a web-based program or local convention.

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

Course	Activity
Naval Aircrewman Candidate School (NACCS)	NAS Pensacola, FL
Survival, Evasion, Resistance, and Escape Course	NAS North Island, CA
	NAS Brunswick, ME
KC-130J Crew Chief Organizational Ground Maintenance Course	CNATT Little Rock AFB, AR
Weapons and Tactics Instructor Course	MAWTS-1
Night Imaging and Threat Evaluation (NITE) Lab	Tactical Squadron
Basic Instructor Training Course	MCAS New River, NC
Crew Resource Management Instructor	NAS Pensacola, FL or Mobile Training Team

3. The following external training courses are recommended to enhance the syllabus:

Course	Activity
Advanced Airlift Tactical Training Course (AATTC)	St. Joseph, MO
Environmental Survival Course	Regional / seasonal survival schools

307. CORE SKILL INTRODUCTION PHASE

1. General

a. Upon completion of this phase of training, the Crew Chief (CC) will be NATOPS qualified as a CC1. The CC will be capable of basic aircraft operation including normal and emergency procedures as well as Crew Resource Management (CRM). Crew Chief Trainees (CCT) undergoing the Core Skill Introduction Phase of training may receive the 2000/3000 Phase codes as long as they have completed the 1000 Phase prerequisite code. A CCT/CCUI receiving a 2000/3000 code may not fly that code as a qualified crew member without an instructor until NATOPS qualified NTPS-6111 complete.

b. Stages. Ground Familiarization, In-flight Procedures and Aircraft Systems Training, Night Systems High, Tactical Navigation and Air-to-Air Refueling.

2. Ground Familiarization (FAM)

a. Purpose. Train the student to perform the basic NATOPS flight crew requirements, aircraft preflight, location and use of emergency equipment, ground and in-flight normal and emergency procedures as well as aircraft post flight procedures. Instructions will be provided to the student demonstrating the location/conduct of the aircrew mission brief.

b. Ground/Academic Training. Prior to FAM-1000, all Basic/Transition/ Series Conversion CCs shall complete the appropriate ground school course consisting of aircraft systems descriptions, normal and emergency procedures, cockpit resource management, operation risk management, aircraft pre-flight

and post-flight procedures, emergency evacuation procedures, bailout procedures and the donning and use of all emergency equipment. The CCUI should also complete CRM, NITE Lab, and the NVD I & II syllabus.

FAM-1000	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Introduce CC student to the aircraft, flight line and squadron operational environment.

Requirement. The student will receive an introduction to the squadron including maintenance control, quality assurance, tool room, work centers, hangar area and the flight line. The student will also receive an introduction to the aircraft to include; exterior, interior and flight station with power applied. The student will be given detailed instruction on hazard areas, emergency signals and ground evacuation. Emphasis will be on hazard areas, safety procedures, hearing protection and personal protective equipment.

Performance Standard. Per NFM, SOP, and associated MIMs.

Prerequisite. Squadron and work center indoctrination training to include active, standing and safety Required Reading Boards as well as the Squadron SOP.

FAM-1001	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Introduce CC student to APU start and APU fire procedures, pre-flight and post-flight inspection.

Requirement. The student will use the NATOPS to prepare for and conduct a full aircraft pre-flight and post-flight inspection with emphasis on the external pre-flight.

Performance Standard. Per NFM, SOP, and associated MIMs.

Prerequisite. FAM-1000

FAM-1002	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Continued instruction on the pre-flight and post-flight inspection.

Requirement. The student will use the NATOPS to prepare for and conduct a full aircraft pre-flight and post-flight inspection emphasizing the cargo compartment and topside preflight. The student will also be given detailed instruction on ramp and door operation to include manual extension, troop seats and cargo loading equipment familiarization.

Performance Standard. Per NFM, SOP, and associated MIMs.

Prerequisite. FAM-1001

FAM-1003	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Continued instruction on the pre-flight and post-flight inspection.

Requirement. The student will use the NATOPS to prepare for and conduct a full aircraft preflight and post-flight; demonstrate the ability to execute the checklists in order to demonstrate aircraft power up, ACAWS procedures, and the interoperability of the CNI-MU, AMU, CNBP, HDD and aircraft lighting.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1002

FAM-1004	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Continued instruction on the pre-flight and post-flight inspection.

Requirement. The student will use the NATOPS to prepare for and conduct a full aircraft preflight and post-flight inspection; receive instruction on the proper donning and use of the anti-exposure suit, parachute, restraint harness, oxygen walk around bottle, smoke mask, fire extinguisher and crash axe. Instruction will be given on in-flight door warning, rapid decompression, fire/smoke and fume elimination, ditching, bailout, flap system malfunctions and landing gear system emergency procedures.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1003

FAM-1005	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Introduce the student to aircraft servicing procedures.

Requirement. The student will receive instruction on aircraft fueling and defueling, hydraulic servicing and Engine/APU oil servicing. The student will demonstrate knowledge of all associated notes, cautions and warnings pertaining to the fuel system to include venting and fuel spill procedures.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1004

FAM-1006	6.0	*	B,SC,R	1 KC-130J	A	D

Goal. Refine preflight procedures and prepare the student for the flight phase of training.

Requirement. The student will prepare for and conduct a full aircraft pre-flight and post-flight inspection and receive instruction on time management and the steps relating to show time, preflight, crew briefing and man-up, engine start, taxi and takeoff. The student will demonstrate normal and emergency

procedures, ICS/Radio procedures, checklist challenge and response calls, engine start procedures and malfunctions, walk around checks and in-flight responsibilities familiarization.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1005

3. In-flight Procedures and Aircraft Systems Training

a. Purpose. Train the student to perform the basic NATOPS flight crew requirements, aircraft preflight preparation, location and use of emergency equipment, ground and in-flight emergency procedures, aircraft post flight procedures and systems operation. System malfunctions, corrective actions and fault isolation shall be emphasized. Instructions will be provided to the student demonstrating the location/conduct of the aircrew mission brief.

b. Ground/Academic Training. Prior to FAM-1100, all Basic/Transition/Conversion CCs shall complete ground school course consisting of aircraft systems descriptions, normal and emergency procedures, crew resource management, operation risk management, aircraft pre-flight and post-flight procedures, emergency evacuation procedures, bailout procedures and the donning and use of all emergency equipment.

FAM-1100	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Introduce and familiarize the student to in-flight procedures.

Requirement. The student will conduct a full aircraft pre-flight and post-flight inspection. The student, acting as an observer, will follow and monitor as the instructor performs all normal and emergency procedures throughout the duration of a flight.

Performance Standard Per NFM and associated MIMs.

Prerequisite. FAM-1006

FAM-1101	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection and perform all in-flight, normal and emergency procedures, as well as APU fire and ground evacuation procedures. The student will demonstrate a thorough knowledge of the engine systems and related emergency procedures.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1100

FAM-1102	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection and perform all in-flight normal and emergency procedures. The student will demonstrate a thorough knowledge of ramp and door operation including manual extension. The student will also demonstrate emergency procedures for in-flight door open warning, rapid decompression, fire/smoke and fume elimination as well as related emergency procedures for propeller systems.
Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1101

FAM-1103	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight, and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection and perform all in-flight normal and emergency procedures. The student will demonstrate a thorough knowledge of the fuel system and related emergency procedures as well as a thorough knowledge of the cargo compartment emergency equipment, ditching and bailout emergency procedures.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1102

FAM-1104	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and emergency procedures, demonstrating a thorough knowledge of the APU and related emergency procedures.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1103

FAM-1105	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.
Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and

emergency procedures; demonstrating a thorough knowledge of the electrical system and 1553 Data Bus System.

Performance Standard. Per NFM and associated MIMs.

Prerequisite. FAM-1104

FAM-1106	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and emergency procedures and demonstrate a thorough knowledge of the hydraulic system, flight controls, landing gear, brake systems and related emergency procedures.

Performance Standard. Per NFM, ATP-56B, and associated MIMs.

Prerequisite. FAM-1105

FAM-1107	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and emergency procedures and demonstrate a thorough knowledge of the bleed air, BAECS, anti-ice, FODS systems and related emergency procedures.

Performance Standard. Per NFM, ATP-56B, and associated MIMs.

Prerequisite. FAM-1106

FAM-1108	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and emergency procedures and demonstrate a thorough knowledge of the air conditioning, pressurization systems and related emergency procedures.

Performance Standard. Per NFM, ATP-56B, and associated MIMs.

Prerequisite. FAM-1107

FAM-1109	3.5	*	B,SC,R	1 KC-130	A	(N)

Goal. Continue instruction of standard NATOPS procedures, duties and responsibilities during normal operations to include aircraft pre-flight, post-flight and turnaround inspections.

Requirement. The student will conduct a full aircraft preflight and post-flight inspection, perform all in-flight normal and emergency procedures and demonstrate a thorough knowledge of the communication and navigation systems and related emergency procedures.

Performance Standard. Per NFM, ATP-56B, and associated MIMs.

Prerequisite. FAM-1108

4. Night Systems High (NS(H))

a. Purpose. To introduce the student to operating aircraft at night using night vision devices in a non-LAT environment.

b. General. A CCUI conducting NS training shall be instructed by an NSI until they are designated NSQ. Subsequent events and non-syllabus NS codes or NS optional codes may be flown with a proficient NSQ CCI as long as the CCUI has completed the prerequisites for the event.

c. Ground/Academic Training. Complete NITE Lab and NVD I & II.

NS(H)-1150	3.5	*	B	1 KC-130J	A	NS

Goal. High Light Level NVD Familiarization.

Requirement. Pre-flight shall include a flight station, cargo compartment and exterior lighting demonstration with NVDs. The CC will perform the duties of an aft lookout during a mission using NVDs.

Performance Standard. Per NFM, ANTTP, and OPNAVINST 3710.7_.

Prerequisite. NVD 1 & 2, NITE Lab.

External Syllabus Support. NITE Lab.

NS(H)-1151	3.5	*	B	1 KC-130J	A	NS

Goal. Low Light Level NVD Familiarization.

Requirement. Conduct all operations included in NS-1150 under Low Light Level conditions.

Performance Standard. Per NFM, KC130J TTP (AS REQUIRED), and OPNAVINST 3710.7_.

Prerequisite. NS(H)-1150

5. Tactical Navigation (TN)

a. Purpose. Introduce the CCUI to the duties of an aft lookout during TN missions.

b. Ground/Academic Training. The student shall be familiar with the NFM, ANTTP and associated MAWTS-1 courseware that relates to tactical navigation.

TN-1200	3.5	*	B	1 KC-130J	A	D

Goal. Introduce the student to the duties of an aft lookout during day TN.

Requirement. The student will perform the duties of an aft lookout during TN.

Performance Standard. Per the NFM and ANTTP.

6. Air-to-Air Refueling (AAR)

a. Purpose. Introduce the CCUI to basic AAR observer skills and duties during Fixed-Wing (FW), Tilt-Rotor (TR), and Rotary-Wing (RW) AAR during day, night, and NVD aided missions.

b. General. The CCUI will be instructed by a designated CCI or NSI to perform the duties of an AAR observer.

c. Ground/Academic Training. The student shall be familiar with the NFM, ANTTP, ATP-56B, and associated MAWTS-1 ASP.

AAR-1600	3.5	*	B	1 KC-130J	A	D

Goal. Introduce the student to the duties of an AAR observer during a day FW/TR AAR mission.

Requirement. The student will perform an aircraft pre-flight followed by witnessing a qualified AAR observer during a day FW/TR AAR mission. The student will demonstrate a thorough understanding of all AAR terminology and the use of EMCON procedures. Emphasize functional knowledge and use of the refueling system. The student should observe from both sides of the aircraft, monitoring the ICS and all radio transmissions.

Performance Standard. Per NFM and the ATP-56B.

External Syllabus Support. Fixed-wing or tilt-rotor receiver.

AAR-1601	3.5	*	B	1 KC-130J	A	D

Goal. Introduce the student to the duties of an AAR observer during a day rotary-wing AAR mission.

Requirement. The student will perform an aircraft pre-flight followed by witnessing a qualified AAR observer during a day RW AAR mission. The student will demonstrate a thorough understanding of all AAR terminology and the use of EMCON procedures. Emphasize functional knowledge and use of the

refueling system. The student should observe from both sides of the aircraft, monitoring the ICS and all radio transmissions.

Performance Standard. Per NFM and the ATP-56B.

External Syllabus Support. Rotary-wing receiver.

308. CORE SKILL PHASE

1. General

a. Upon completion of this phase of training (SYS-6000 through SYS-6008, Day and Night System Qualified (NSQ) in the non-LAT environment and NTPS-6118 complete), the CC may be designated a "Crew Chief II" by the commanding officer. Once the CC has been evaluated for the NTPS-6111 event and has successfully completed subsequent initial events, the CC is qualified in that event.

b. Stages. Night Systems High, Long Range Navigation, Tactical Navigation, Low Altitude Tactics, and Threat Reaction.

2. Night Systems High (NS(H))

a. Purpose. To develop proficiency at operating aircraft at night under high or low light conditions using NVDs.

b. General. A CCUI conducting NS training shall be instructed by an NSI until designated NSQ. Subsequent events and non-syllabus NS codes or NS optional codes may be flown with a proficient NSQ CCI as long as the CCUI has completed the prerequisites for the event.

NS(H)-2150	2.0	365	B,R	1 KC-130J	A	NS

Goal. To qualify the CC in flights involving the use of Night Vision Devices (NVD) or to maintain proficiency with NVDs.

Requirement. The CC will demonstrate the ability to perform primary CC duties using NVDs at the ACS or as an aft lookout. Emphasize cargo compartment preparation, crew briefing, lookout doctrine and scan for threat, crew coordination and Combat Entry/Exit Checklists under high or low light conditions.

Performance Standard. Per NFM, ANTTP, and MAWTS-1 ASP for NSQ.

Prerequisite. NITE Lab, NVD 1 & 2, Minimum of 10 hours of NVD time with 5 hours under low light conditions, NS-1151

3. Long Range Navigation (LRN)

a. Purpose. To develop proficiency at operating aircraft during long range over water navigation.

LRN-2162	6.0	365	B,R	1 KC-130J	A	(N)

Goal. To qualify the CC or to maintain proficiency in long-range, over-water procedures and GMS/PMA capabilities deployed as it applies to the long range over water environment.

Requirement. The student will demonstrate the ability to operate on a long range over flight as it relates to ground support, and coordinating maintenance/logistics.

Performance Standard. Per the NFM and pertinent ICAO publications.

4. Tactical Navigation

a. Purpose. To develop proficiency for the low-level qualified CC in the unique tasks and requirements associated with low-level flights.

b. General. The CCUI will demonstrate the ability to recognize threats and hazards associated with TN.

c. Academic/Ground Training. Review NATOPS Flight Manual, ANTTP, and the applicable MAWTS-1 ASP.

TN-2201	2.0	365	B	1 KC-130J	A	D

Goal. To introduce, qualify or maintain proficiency for the CC in tactical navigation.

Requirement. The CC will perform lookout duties from the ACS or aft lookout during day TN. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scan for threats and terrain clearance, crew coordination and Combat Entry/Exit Checklist execution.

Performance Standard. Per the NFM and ANTTP.

External Syllabus Support. Published and scheduled VR/IR/SR route or appropriate Warning/Restricted/Military Operating areas.

Prerequisite. TN-1200

TN-2250	2.0	180	B,R	1 KC-130J	A	NS

Goal. Introduce, qualify or maintain TN proficiency using NVDs during high or low light level.

Requirement. The CC will perform the duties of a lookout on a TN mission using NVDs. Emphasize cargo compartment preparation, crew briefing, lookout doctrine and scan for threat, crew coordination and Combat Entry/Exit Checklist execution.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. NS(H)-2150, TN-2201.

External Syllabus Support. VR/IR/SR route or appropriate Warning/Restricted/Military Operating areas.

5. Low Altitude Tactics (LAT)

a. Purpose. To introduce, qualify or to maintain proficiency for the CC in the unique tasks and requirements associated with flying in the LAT

environment.

b. General. This stage of instruction shall be taught locally per the MAWTS-1 ASP, or in conjunction with AATTC.

b. Crew Requirements. CCI

c. Academic Training. MAWTS-1 ASP, ANTTP.

LAT-2261	2.0	365	B,R	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in the duties as an aft lookout, in a ground threat environment.

Requirement. The CC will perform the duties of an aft lookout during a LAT mission. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination and Combat Entry/Exit Checklist execution.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. TN-2201.

External Syllabus Support. LAT approved course.

6. Threat Reaction

a. Purpose. Introduce the CC and maintain proficiency in the coordinated use of defensive maneuvering and the Aircraft Survivability Equipment (ASE) against surface-to-air threat systems.

b. General

(1) Aircraft must have fully operational ASE suite.

(2) Appropriate chaff and decoy flares must be loaded prior to flight.

(3) Threat emitters must be available.

c. Ground Training. Prior to TR-2400, the CC shall review pertinent chapters in the ANTTP and receive:

(1) MAWTS-1 ASP course on tactical aircrew coordination.

(2) MAWTS-1 ASP course on MAGTF ground based air defense system (GBADS).

(3) MAWTS-1 ASP course on KC-130 specific threat counter-tactics.

(4) Specific training on installed KC-130J ASE equipment.

d. External Support. Threat range providing emitters and Smokey SAMS.

TR-2400	3.0	365	B,R	1 KC-130J	A	(N)

Goal. Qualify or maintain proficiency in duties at the ACS or as an aft lookout during a flight employing aircraft survivability

equipment in a ground threat environment.

Requirement. Introduce the use of the ASE suite in combination with appropriate tactical maneuvering to defeat threat weapons systems. Demonstrate an understanding of the tactical employment of installed ASE in all modes of operation. The CCUI should be exposed to a variety of threat situations and instructed on the best means to ensure aircraft survival. The CC will perform duties at the ACS or as an aft lookout during a flight involving the use of ASE. Emphasis will be placed on cargo compartment preparation, crew briefing, lookout doctrine, scanning for ground/air threats and terrain clearance, crew coordination, Combat Entry/Exit Checklist execution and systems familiarity.

Performance Standard. Satisfactory execution of procedures per the MAWTS-1 ASP, NFM, and ANTTP.

Prerequisite. Applicable MAWTS-1 ASP, and 2201.

Ordnance. 240 MJU-8 Training Flares, 300 RR-129/RR-144 Chaff.

External Syllabus Support. Scheduled appropriate counter-measures range and EW range or threat emitters.

309. MISSION SKILL PHASE

1. General

a. Upon completion of this phase of training the CC will be qualified in Mission Skills. Once the CC has attained the NTPS-6111 and subsequent initial events have been successfully completed, the CC is qualified in that event

b. Stages. Assault Landing Zone, Air-to-Air Refueling, Rapid Ground Refueling, and Air Delivery.

2. Assault Landing Zone (ALZ)

a. Purpose. Introduce Assault Landing Zone operations.

b. Ground/Academic Training. Review Assault Landing Zone operations in the ANTTP and MAWTS-1 ALZ ASP. Familiarize the CC with ground flotation, performance dataand applicable pubs for unimproved runway operation.

ALZ-3503	2.0	365	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, and/or maintain proficiency for the CC in ALZ operations.

Requirement. The CC will demonstrate the ability to prepare the cargo compartment and aircraft exterior for ALZ operations. The CC will practice lookout doctrine to include brown-out calls.
Performance Standard. Per the NFM and ANTTP.

External Syllabus Support. USMC MMT, MWSS EAF or USAF Combat Control Team with appropriate expeditionary airfield ALZ Marking/lighting and Crash/Fire/Rescue Support.

3. Air-to-Air Refueling (AAR)

a. Purpose. Continue instruction in AAR. The CC will be capable of day and night FW, TR and RW AAR operations.

b. Ground/Academic Training. Complete the Air to Air Refueling System Course and the applicable MAWTS-1 ASP. Review NFM, ATP-56B, KC-130 Operational Guide and appropriate aircraft systems CBT modules.

AAR-3600	2.0	365	B,R	1 KC-130J	A	(N)

Goal. To qualify or maintain proficiency in the duties of an AAR observer for FW or TR AAR.

Requirement. The CC will perform duties of an AAR observer during a FW/TR AAR. The CC will demonstrate a thorough understanding and functional knowledge of the Air to Air Refueling system and its operation. Emphasize correct AAR terminology, safety, emergency procedures, ICS discipline and crew coordination during all phases.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1600

External Syllabus Support. FW/TR receiver aircraft.

AAR-3601	2.0	365	B,R	1 KC-130J	A	(N)

Goal. To qualify or maintain proficiency in the duties of an AAR observer during a RW AAR mission.

Requirement. The CC will perform duties of an AAR observer during a RW AAR. The CC will demonstrate a thorough understanding and functional knowledge of the Air to Air Refueling system and its operation. Emphasize correct AAR terminology, safety, emergency procedures, ICS discipline, and crew coordination during all phases.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1601

External Syllabus Support. Rotary-wing receiver.

AAR-3610	2.0	*	B,SC,R	1 KC-130J/WST	A/S	(N)

Goal. Introduce ACS AAR procedures.

Requirement. Introduce normal operations of the Air to Air Refueling system from the ACS. Emphasize normal procedures, alternate procedures, system limitations and emergency procedures as they pertain to AAR.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-3600, AAR-3601

External Syllabus Support. Receiver aircraft.

AAR-3611	2.0	*	B,SC,R	1 KC-130J/WST	A/S	(N)

Goal. Refine ACS AAR procedures.

Requirement. Refine normal operations of the Air to Air Refueling system during AAR operations.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-3610

External Syllabus Support. Receiver aircraft.

AAR-3612	2.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Qualify and maintain proficiency in ACS AAR procedures.

Requirement. The CC will demonstrate the ability to perform normal operations of the Air to Air Refueling system during AAR operations. Emphasize normal procedures, alternate procedures, system operation, system limitations and emergency procedures pertaining to the AAR mission and the ability to operate, diagnose and isolate discrepancies during AAR missions. The CCUI shall be evaluated by an ANI/NI CC.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-3611

External Syllabus Support. Receiver aircraft.

AAR-3650	2.0	365	B,R	1 KC-130J	A	NS

Goal. To qualify and/or maintain proficiency as a Night System AAR observer.

Requirement. The CC will perform all duties as an AAR observer using NVDs.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. NS(H)-2150, AAR-3600, AAR-3601.

4. Rapid Ground Refueling (RGR)

a. Purpose. Qualify the CC or to maintain proficiency as a point man in set up and conduct of a day Rapid Ground Refueling for RW, FW, TR, or Tactical Ground Vehicles (TGV).

b. General. This phase of training shall be conducted with a qualified instructor (CCI or LMI).

c. Ground/Academic Training. Review ANTTP RGR procedures, the MAWTS-1 RGR ASP, and Taxi Director ASP.

RGR-3661	2.0	365	B,R	1 KC-130J	A	D

Goal. To introduce, qualify and/or maintain currency in RGR point man during RGR.

Requirement. The CC will assist the Refueling Supervisor in the conduct of day RGR, minimum 2 point setup, including an actual transfer of fuel. Instruction will be provided on inspection and configuration of all associated gear, normal procedures, safety and breakdown of the system. The CC will perform all duties associated with manning a refueling point during the fuel transfer portion(s) of the RGR evolution. EMCON procedures are optional.

Performance Standard. Per NFM and ANTTP.

Prerequisite. MAWTS-1 ASP.

External Syllabus Support. Crash/Fire/Rescue Support.

RGR-3651	2.0	365	B,R	1 KC-130J	A	NS

Goal. Introduce, qualify and/or maintain proficiency for point man duties during a night RGR using night vision devices.

Requirement. The CC will assist the refueling supervisor in the conduct of a night RGR, minimum 2 point setup, including an actual transfer of fuel. The CC will perform all duties associated with manning a refueling point during RGR. Special emphasis will be placed on hazards of this mission at night.

Performance Standard. Per NFM and ANTTP.

Prerequisite. NS(H)-2150 and RGR-3661.

External Syllabus Support. Crash/Fire/Rescue Support.

5. Air Delivery (AD)

a. Purpose. Introduce and qualify the CC or to maintain proficiency for the AD qualified CC in both day and night AD in the unique tasks and requirements associated with AD flights.

b. General. The CCUI will occupy the ACS and execute the Combat Entry/Exit and Air Delivery Checklist as appropriate. The CC will demonstrate the ability to pre-flight, operate and conduct in-flight diagnostics of the aircraft AD systems and assist Loadmasters/Crewmasters as necessary.

c. Ground/Academic Training. Review NFM, ANTTP, and MAWTS-1 AD ASP.

AD-3702	2.0		B,SC,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, and maintain proficiency for the CC in air delivery.

Requirement. The CC will be introduced to the air delivery checklists and duties at the ACS. The CC will assist the Loadmaster/Crewmaster in pre-flight of the AD system.
Performance Standard. Per NFM and ANTTP.

External Syllabus Requirement. Air Delivery Platoon.

310. CORE PLUS PHASE

1. General

a. Upon completion of this phase, the CC will be qualified in Core Plus Skills. Once the CC has attained the NTPS-6118 and subsequent initial events have been successfully completed, the CC is qualified in that event.

b. Stages. Night Systems Low, Defensive Tactics, and Battlefield Illumination.

2. Night Systems Low (NS(L))

a. Purpose. Introduce LAT using NVDs

b. Ground/Academic Training. Per the MAWTS-1 Course Catalog. Complete MAWTS-1 ASE ASP for TN and review ANTTP.

NS(L)-4251	2.0	365	B,SC,R	1 KC-130J	A	NS

Goal. Introduce, qualify or maintain proficiency in the duties of aft lookout doctrine during a HLL NS LAT mission.

Requirement. The CC will perform aft lookout duties during a TN mission. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination and Combat Entry/Exit Checklist execution while using NVDs.

Performance Standard. Per the NFM, ANTTP, and OPNAVINST 3710.7_.

Prerequisite. TN-2250, LAT-2261.

External Syllabus Support. LAT approved course.

3. Defensive Tactics (DT)

a. Purpose. Introduce defensive tactics used in air-to-air engagements by combining maneuvering and use of the ASE suite.

b. General.

(1) Aircraft should have fully operational ASE suite.

(2) Appropriate chaff and decoy flares should be loaded prior to flight.

c. Ground/Academic Training. Academic prerequisites per MAWTS-1 KC-130J Defensive Tactics Course. Prior to DT-4410, the CC shall receive specific training on installed KC-130J ASE equipment.

DT-4410	2.0	365	B,R	1 KC-130J	A	D

Goal. Introduce, qualify or maintain proficiency in the duties of an aft lookout or RVD lookout during a DT mission.

Requirement. The CC will perform the duties of an aft lookout or RVD lookout during a flight involving the use of defensive tactics. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scan for air threats and terrain clearance, crew coordination and Combat Entry/Exit Checklist execution.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. LAT-2261.

Ordnance. Full Chaff and Decoy Flare load.

External Syllabus Support. Appropriate aggressor aircraft.

4. Battlefield Illumination (BI)

a. Purpose. Introduce, qualify, attain and/or maintain proficiency in Battlefield Illumination (BI).

b. General. The CCUI will be trained by a CC or LM Quality Assurance Safety Observer QASO to act as a BI team member.

c. Ground/Academic Training. Academic prerequisites per MAWTS-1 ASP.

BI-4710	2.0	365	B,R	1 KC-130J	A	N

Goal. Introduce, qualify and/or maintain proficiency as a team member for battlefield illumination.

Requirement. The CC will assist the Loadmasters/Crewmasters in the preparation and delivery of flares for BI.

Performance Standard. Per the NFM and ANTTP.

Ordnance. BI Flares.

311. INSTRUCTOR TRAINING

1. General

a. This stage of training is to ensure the standardized instruction of CCs at the tactical squadron. "E"-coded sorties are evaluation sorties. Instructor "E"-coded sorties in the 5000 phase may be logged in conjunction with any sortie that completes its stage. Once the flight to attain the qualification/designation is complete the corresponding 6000 phase code shall be logged and a letter from the squadron commanding officer awarding the qualification/designation shall be placed in the NATOPS jacket before that qualification/designation can be used.

b. Stages. Crew Chief Instructor, Crew Chief Simulator Instructor, Night Systems Instructor, Assistant NATOPS Instructor/NATOPS Instructor/NATOPS Evaluator.

2. Crew Chief Instructor (CCI)

a. Purpose. Qualify the CC as a Crew Chief Instructor (CCI).

b. General. This phase of training shall be conducted under the supervision of an ANI, NI, or GNE.

CCI-5100	3.0	*		1 KC-130J	A	(N)

Goal. Train CC to be an instructor.

Requirement. IUT will demonstrate the ability to instruct a student CC in all facets of the duties of a CC on the KC-130J. The IUT will also demonstrate the ability to correct common student errors. Errors may be simulated by a CC NATOPS Instructor.

Performance Standard. OPNAV 3710.7_, NFM, ANTTP, and SOP.

Prerequisite. NTPS-6111, 750 flight hours in KC-130T/J aircraft.

CCI-5101	3.0	*		1 KC-130J	A	(N)

Goal. Continue CCI training.

Requirement. IUT will demonstrate the ability to instruct a student CC in all facets of the duties of a CC on the KC-130J. The IUT will also demonstrate the ability to correct common student errors. Errors may be simulated by a CC NATOPS Instructor.

Performance Standard. OPNAV 3710.7_, NFM, ANTTP, and SOP.

Prerequisite. CCI-5100.

CCI-5102	3.0	365	E	1 KC-130J	A	(N)

Goal. Qualify the CC as a CCI.

Requirement. IUT will demonstrate the ability to instruct a student CC in all facets of the duties of a CC on the KC-130J. The IUT will also demonstrate the ability to correct common student errors. Errors may be simulated by a CC NATOPS Instructor.

Performance Standard. IAW OPNAV 3710.7_, NFM, ANTTP, and SOP.

Prerequisite. CCI-5101.

3. Crew Chief Simulator Instructor (SIM)

a. Purpose. Train the CCI as a Crew Chief Simulator Instructor. The CCI will be qualified to use the simulator to instruct students upon completion of this training. This stage does not require a separate designation letter from the commanding officer.

b. General. This stage of training shall be conducted under the supervision of an ANI, NI, or NE.

SIM-5103	2.0	*	E	1 GFT/CPT/OFT	S	(N)

Goal. Familiarize the instructor in the proper operation of the device trainers.

Requirement. Train the instructor on proper set-up and safe operation of device trainer.

Performance Standard. IAW NFM and operator's manual.

Prerequisite. CCI-5102.

External Syllabus Support. WST simulator, CAPTT or device trainer.

4. Assistant NATOPS Instructor/NATOPS Instructor/NATOPS Evaluator (NI)

a. Purpose. To qualify the CC as an Assistant NATOPS Instructor, NATOPS Instructor, or NATOPS Evaluator.

b. General. This evaluation will be conducted by the Squadron NATOPS Instructor, NATOPS Evaluator or Model Manager NATOPS Evaluator.

NI-5140	2.0	365	E	1 KC-130J	A	(N)

Goal. Train and evaluate the Assistant NATOPS Instructor.

Requirement. The CC will demonstrate the ability to evaluate a student CC in all facets of the duties of a CC on the KC-130J. The NATOPS Instructor or NATOPS Evaluator will conduct a comprehensive evaluation of Assistant NATOPS Instructors with emphasis on standardization and grading criteria.

Performance Standard. Per the NFM and OPNAVINST 3710.7_.

Prerequisite. CCI (CCI-5102) and 1000 flight hours in the KC-130T/J aircraft.

NI-5141	2.0	365	E	1 KC-130J	A	(N)

Goal. NATOPS Instructor/NATOPS Evaluator check.

Requirement. The ANI will demonstrate the ability to evaluate a student CC in all facets of the duties of a CC on the KC-130J. The NATOPS Evaluator (or Model Manager) will conduct a comprehensive evaluation of the prospective NATOPS Instructor with emphasis on standardization and grading criteria. The Model Manager will evaluate the prospective NATOPS evaluator.
Performance Standard. Per the NFM and OPNAVINST 3710.7_.

Prerequisite. ANI (NI-5140) and 1000 flight hours in the KC-130T/J aircraft.

5. Night Systems Instructor (NSI)

a. Purpose. Qualify the CC as an NSI.

b. General. The T&R Program Manual and the MAWTS-1 KC-130J Course Catalog define the training requirements for NSI. The build-up phase may be administered by a squadron NSI. However, a MAWTS KC-130 Instructor shall conduct the certification flight. Upon certification by MAWTS-1, the NSI designation may be assigned by the squadron commanding officer.

NSI-5150	3.0	*	1 KC-130J	A	NS

Goal. Train CC NSI.

Requirement. The NSI IUT will demonstrate the ability to instruct and evaluate a student CC in the use and operation of NVD's on the KC-130J. The IUT will demonstrate the ability to correct common student errors as simulated by a CC NSI. The IUT will also apply standardized instructional techniques.

Performance Standard. IAW NFM and MAWTS-1 KC-130J Course Catalog.

Prerequisite. MAWTS-1 ASP for NSI, NS(H)-2150, CCI-5102.

NSI-5151	3.0	*	1 KC-130J	A	NS

Goal. Train CC NSI.

Requirement. The NSI IUT will conduct training for a student CC applying standardized instructional techniques.

Performance Standard. IAW NFM and MAWTS-1 KC-130J Course Catalog.

Prerequisite. NSI-5150.

NSI-5152	2.0	* E	1 KC-130J	A	NS

Goal. NSI Designation.

Requirement. Per MAWTS-1 Course Catalog.

Performance Standard. MAWTS-1 Course Catalog.

Prerequisite. NSI-5151, MAWTS-1 Course Catalog requirements.

External Syllabus Support. MAWTS-1 Instructor

312. REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS

1. Purpose. Track NATOPS qualifications and designations.

2. General. "E"-coded sorties are evaluation sorties. "E"-coded sorties in the 6000-level phase may be logged in conjunction with any sortie that completes its stage. Once the flight to attain the qualification/designation is complete, a letter from the squadron commanding officer awarding the

qualification/designation shall be placed in the NATOPS and APR before that qualification/designation can be used.

3. Stages. Systems Review, Academic Evaluation, Right Seat Taxi Observer, Engine Run, Functional Check Flight, and NATOPS Evaluations and designations.

4. Systems Review

a. Purpose. Review aircraft systems, systems operation, system malfunctions, corrective actions, fault isolation and in-flight fault diagnostics per current instructions.

b. General. The CCI may induce malfunctions and simulated emergencies as practical with coordination of the Pilot In Command.

SYS-6000	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review APU system.

Requirement. The CC will be knowledgeable on auxiliary power unit operation, possible malfunctions, fault isolation and corrective actions per current instruction.

Performance Standard. Per the NFM, OPNAVINST 3710.7 and OPNNAVINST 4790.2.

Prerequisite. CC1 NTPS-6111

SYS-6001	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the engine.

Requirements. Review propulsion system to include engine theory of operation, split turbine theory, reduction gearbox assembly, associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6000

SYS-6002	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the propeller system.

Requirements. Review propeller system to include theory of operation and limitations, associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6001

SYS-6003	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft AC and DC electrical systems.

Requirement. Review the aircraft AC and DC electrical systems including the primary and secondary systems, system indicators, system warning lights, associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6002

SYS-6004	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft bleed air systems, anti-icing and deicing systems.

Requirement. Review the aircraft bleed air systems, isolation valves, wing and empennage anti-icing, propeller anti-icing/de-icing, NESA system, associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6003

SYS-6005	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft fuel systems.

Requirement. Review the aircraft fuel system. Include the refueling/defueling system, procedures, tank construction, the water removal system, cross feed, fuel transfer & jettison, single point refueling systems, fuel systems controls, the fuel indicating system, ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6004

SYS-6006	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft utility, booster, and auxiliary hydraulic systems.

Requirement. Review the aircraft utility, booster, and auxiliary hydraulic systems, associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6005

SYS-6007 4.0 * B,SC,R 1 KC-130J A (N)

Goal. Review the aircraft pressurization and oxygen systems.

Requirement. Review the aircraft pressurization and oxygen systems, associated ACAWS and operation of hard and soft panels associated with these systems. Perform LOX servicing IAW Job Guide.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_. Service LOX IAW applicable Job Guides.

Prerequisite. SYS-6006

SYS-6008 4.0 * B,SC,R 1 KC-130J A (N)

Goal. Review the aircraft communications and navigation systems.

Requirement. Review the aircraft communications and navigation systems. Include radio operation and transmission. Review associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6007

5. NATOPS Evaluation (NTPS)

a. Purpose. To conduct an initial or annual NATOPS exam.

NTPS-6010 3.0 365 B,SC,R E

Goal. NATOPS open book exam.

Requirement. CC will complete a NATOPS open book examination.

Performance Standard. Per NATOPS.

Prerequisite. 1000 phase complete.

NTPS-6011 1.0 365 B,SC,R E

Goal. NATOPS closed book exam.

Requirement. CC will complete a NATOPS closed book examination.

Performance Standard. Per NATOPS.

Prerequisite. 1000 phase complete.

NTPS-6012 3.0 365 B,SC,R E

Goal. NATOPS oral exam.

Requirement. CC will complete a NATOPS oral examination.

Performance Standard. Per NATOPS.

Prerequisite. 1000 phase complete.

6. Right Seat Taxi Observer

a. Purpose. To train the Crew Chief in right seat taxi observer procedures. This stage does not require flight time, but does require the use of a KC-130J Aircraft or WST for the indicated time.

b. General. This phase of instruction shall be instructed by a Basic Instructor Pilot or a CCI

c. Ground/Academic Training. The student will be familiar with aircraft taxi operations, squadron SOP, and the local course rules.

RSTO-6015 2.0 * B,SC,R 1 KC-130J/WST A/S (N)

Goal. Introduce right seat taxi observer procedures.

Requirement. Introduce right seat taxi observer procedures.

Performance Standard. IAW NFM, OPNAV 3710.7_, and local course rules.

Prerequisite. CC1 (NTPS-6111).

RSTO-6016 1.0 * B,SC,R 1 KC-130J/WST A/S (N)

Goal. Refine right seat taxi observer procedures.

Requirement. Refine and qualify the CCUI in right seat taxi observer procedures and emergency procedures as applicable to the copilot seat during engine start and taxi.

Performance Standard. Qualified per NFM, OPNAV 3710.7_ and local course rules.

Prerequisite. RSTO-6015.

7. Engine Run Qualification

a. Purpose. To train and qualify the Crew Chief Plane Captain in Engine Run Procedures.

b. General. A Crew chief Plane Captain must be recommended by the Aircraft Maintenance Officer prior to starting the Engine Run syllabus. A NATOPS Instructor/Evaluator Crew Chief shall train and evaluate the CCUI in engine run procedures IAW the 4790.2 NAMP.

c. Ground/Academic Training. The student shall complete the required reading and be familiar with maintenance instructions, aircraft

operations, squadron SOP and the local course rules.

ER-6017 3.0 * B,SC,R 1 KC-130J/WST A/S (N)

Goal. Introduce Engine run procedures.

Requirement. An Assistant NATOPS Instructor will introduce engine ground runs in accordance with current NAVAIR Tech Pubs and Job Guide instruction. Start engine run syllabus IAW with local DSS procedures.

Performance Standard. IAW applicable MIMs, NFM, and local course rules.

Prerequisite. CC2 (NTPS-6118).

ER-6018 3.0 * B,SC,R,E 1 KC-130J A (N)

Goal. Evaluate Student Crew Chief on engine run procedures.

Requirement. An Assistant NATOPS Instructor Crew Chief will evaluate the student Crew Chief on engine run procedures. Upon completion of ER-6017 and ER-6018 the commanding officer may designate the crew chief as engine run qualified via ASM Online.

Performance Standard. Qualified per MIMS, NFM, and local course rules and DSS program.

Prerequisite. ER-6017

8. Functional Check Flight (FCF)

a. Purpose. To continue instruction and maintain proficiency in FCF procedures. Perform all FCF procedures IAW NATOPS and 4790.2.

b. General. This phase of training will be instructed by a qualified instructor CCI for initial code.

c. Ground/Academic Training. The student will be familiar with FCF procedures.

FCF-6105 2.0 * B,SC,R 1 KC-130J A D

Goal. To introduce, qualify and maintain currency for CC proficiency in partial FCF Flight Profile B, C, or D procedures.

Requirement. To conduct a partial FCF; coordinating and documenting all the requirements of the MIMS, NATOPS, SOP and 4790.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. NTPS-6118

FCF-6106	4.0	*	B,SC,R		1 KC-130J/WST	A/S	D

Goal. To introduce the CC to the Full Card FCF procedures.

Requirement. To conduct a Full Card FCF engine run and flight phase inspection.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. NTPS-6118

FCF-6107	4.0	*	B,SC,R		1 KC-130J	A	D

Goal. To qualify and maintain currency for the CC proficiency in Full Card FCF procedures.

Requirement. To conduct a Full Card FCF engine run and flight phase inspection upon completion of post maintenance discrepancies or 30 day no fly.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. FCF-6106

9. NATOPS Evaluation (NTPS)

a. Purpose. To conduct an initial or annual NATOPS check.

NTPS-6111	4.0	365	B,SC,R	E	1 KC-130J	A	(N)

Goal. CC1 NATOPS evaluation.

Requirement. The ANI or NATOPS Instructor/Evaluator will evaluate CC per NATOPS and ANTTP procedures. It is preferred that this evaluation be done on an AAR, LL, ALZ, RGR, or combination mission and that it also be performed on an Remain Overnight (RON) flight. CC1 evaluation will be conducted upon completion of the CCUI Training Syllabus and a minimum of 100 flight hours in the KC-130.

Performance Standard. Per NFM.

Prerequisite. 1000 phase complete.

NTPS-6118	4.0	365	B,SC,R	E	1 KC-130J	A	(N)

Goal. CC2 NATOPS evaluation.

Requirement. The ANI or NATOPS Instructor/Evaluator will evaluate the CC in crew member and plane captain performance per NATOPS, ANTTP, SOP, and 4790.2 procedures. It is preferred that this evaluation be conducted during an AAR, TN, ALZ, RGR, or combination mission. This evaluation shall be conducted on an RON flight.

Performance Standard. Per NFM.

Prerequisite. Core Skill and Mission Skill phase complete. SYS-6000 through 6008, NTPS-6111, Plane Captain Syllabus complete and a minimum of 300 flight hours in the KC-130.

313. T&R SYLLABUS MATRIX

KC-130J CREW CHIEF													
1000 CORE SKILL INTRODUCTION													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
FAMILIARIZATION													
FAM	1000	Aircraft / Squadron Intro	6.0	-	*	A	1	D		B,SC,R	-	-	000
FAM	1001	Exterior Preflight	6.0	-	*	A	1	D	1000	B,SC,R	-	-	001
FAM	1002	Interior Preflight	6.0	-	*	A	1	D	1001	B,SC,R	-	-	002
FAM	1003	Flight Station Preflight	6.0	-	*	A	1	D	1002	B,SC,R	-	-	003
FAM	1004	Emergency Equipment	6.0	-	*	A	1	D	1003	B,SC,R	-	-	004
FAM	1005	Servicing	6.0	-	*	A	1	D	1004	B,SC,R	-	-	005
FAM	1006	Refine Preflight	6.0	-	*	A	1	D	1005	B,SC,R	-	-	006
FAM	1100	Fam Flight	3.5	-	*	A	1	(N)	1006	B,SC,R	-	-	100
FAM	1101	Engines	3.5	-	*	A	1	(N)	1100	B,SC,R	-	-	101
FAM	1102	Propellers	3.5	-	*	A	1	(N)	1101	B,SC,R	-	-	102
FAM	1103	Fuel	3.5	-	*	A	1	(N)	1102	B,SC,R	-	-	103
FAM	1104	APU	3.5	-	*	A	1	(N)	1103	B,SC,R	-	-	104
FAM	1105	Electrical & Data Bus	3.5	-	*	A	1	(N)	1104	B,SC,R	-	-	105
FAM	1106	Hydraulics & Flight Controls	3.5	-	*	A	1	(N)	1105	B,SC,R	-	-	106
FAM	1107	Bleed Air & Ice Protection	3.5	-	*	A	1	(N)	1106	B,SC,R	-	-	107
FAM	1108	AC & Pressurization	3.5	-	*	A	1	(N)	1107	B,SC,R	-	-	108
FAM	1109	Comm Nav	3.5	-	*	A	1	(N)	1108	B,SC,R	-	-	109
			77.0	-									
NIGHT SYSTEMS (NS)													
NS	1150	NS HLL FAM	3.5	-	*	A	1	NS		B	-	-	111
NS	1151	NS LLL FAM	3.5	-	*	A	1	NS	1150	B	-	-	112
			7.0	-									
TACTICAL NAVIGATION (TN)													
TN	1200	TN INTRO	3.5	-	*	A	1	D		B	-	-	121
			3.5	-									
AIR-TO-AIR REFUELING (AAR)													
AAR	1600	FW/TR AAR	3.5	-	*	A	1	D		B	-	-	150
AAR	1601	RW AAR	3.5	-	*	A	1	D		B	-	-	151
			7.0	-									
TOTALS		FLT HRS	94.5	-	SIM HOURS								

KC-130J CREW CHIEF													
2000 CORE SKILL													
STAGE	TRNG CODE	EVENT DEB,SC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NIGHT SYSTEMS (NS)													
NS	2150	NS QUAL	2.0	-	365	A	1	NS	1151	B,R	-		202
			2.0	-									
LONG RANGE NAVIGATION (LRN)													
LRN	2162	LONG RANGE NAV	6.0	-	365	A	1	(N)	-	B,R	-	-	213
			6.0	-									
TACTICAL NAVIGATION (TN)													
TN	2201	DAY TN	2.0	-	365	A	1	D	1200	B	-	-	221
TN	2250	NS TN	2.0	-	365	A	1	NS	2150, 2201	B,R	-	2150, 2201	222
			6.0	-									
LOW ALTITUDE TACTICS (LAT)													
LAT	2261	DAY LAT	2.0	-	365	A	1	D	2201	B,R	-	2201	321
THREAT REACTION (THRX)													
TR	2400	GROUND THREAT (RF/IR) ASE	3.0	-	365	A	1	(N)	2201	B,R	-	2201	340
			3.0	-									
TOTALS		FLT HRS	17.0	-	SIM HOURS								

KC-130J CREW CHIEF													
3000 MISSION SKILL													
STAGE	TRNG CODE	EVENT DEB,SC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
ASSAULT LANDING ZONE (ALZ)													
ALZ	3503	DAY ALZ OPERATIONS	2.0	-	365	A	1	(N)	-	B,R	-	-	260
			2.0	0.0									
AIR-TO-AIR REFUELING (AAR)													
AAR	3600	FW/TR AAR	2.0	-	365	A	1	(N)	1600	B,R	-	-	250
AAR	3601	RW AAR	2.0	-	365	A	1	(N)	1601	B,R	-	-	251
AAR	3610	ACS AR INTRO	2.0	-	*	A/S	1	(N)	3600,3601	B,SC,R	-	-	350
AAR	3611	ACS AR	2.0	-	*	A/S	1	(N)	3610	B,SC,R	-	-	351
AAR	3612	ACS AR QUAL	2.0	-	180	A	1	(N)	3611	B,SC,R	-	-	352
AAR	3650	NS AAR	2.0	-	365	A	1	NS	2150,3600,3601	B,R	-	-	253
			12.0	0.0									
RAPID GROUND REFUELING (RGR)													
RGR	3661	RGR POINT MAN	2.0	-	365	A	1	D	-	B,R	-	-	370
RGR	3651	NS RGR POINT MAN	2.0	-	365	A	1	NS	2150,3661	B,R	-	3661	371
			4.0	0.0									
AIR DELIVERY (AD)													
AD	3702	AIR DELIVERY	2.0	-	365	A	1	(N)	-	B,SC,R	-	-	380
			2.0	-									
TOTALS		FLT HRS	22.0	0.0	SIM HOURS								

KC-130J CREW CHIEF													
4000 CORE PLUS													
STAGE	TRNG CODE	EVENT DEB,SC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NIGHT SYSTEMS LOW NS(L)													
NS(L)	4251	NS LAT	2.0	-	365	A	1	NS	2250, 2261	B,SC,R	-	2201,2250	421
			2.0	-									
DEFENSIVE TACTICS (DT)													
DT	4410	DT ASE/RVD	2.0	-	365	A	1	D	2261	B,R	-	2201	440
			2.0	-									
BATTLEFIELD ILLUMINATION (BI)													
BI	4710	TM/TL	2.0	-	365	A	1	N	-	B,R	-	-	485
			2.0	-									
TOTALS		FLT HRS	6.0	0.0	SIM HOURS								

KC-130J CREW CHIEF													
5000 INSTRUCTOR TRAINING													
STAGE	TRNG CODE	EVENT DEB,SC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
CREW CHIEF INSTRUCTOR TRAINING													
CCI	5100	CC IUT	3.0		*	A	1	(N)	6111	-	-	-	501
CCI	5101	CC IUT	3.0		*	A	1	(N)	5100	-	-	-	502
CCI	5102	CC IUT QUAL	3.0		365	A	1	(N)	5101	-	E	-	593
SIM	5103	CCI SIM INST	-	2.0	*	S	1	(N)	5102	-	E	-	503
			9.0	2.0									
CREW CHIEF ANI / NI TRAINING													
NI	5140	ANI	-	2.0	*	A	1	(N)	5102	-	E	-	698
NI	5141	NI / NE	-	2.0	*	A	1	(N)	5140	*	E	-	699
			-	4.0	-								
NIGHT SYSTEM INSTRUCTOR TRAINING													
NSI	5150	NSI IUT	3.0	-	*	A	1	NS	2150,5102	-	-	-	.
NSI	5151	NSI IUT	3.0	-	*	A	1	NS	5150	-	-	-	.
NSI	5152	NSI CERTIFICATION	2.0	-	*	A	1	NS	5151	-	E	-	596
			8.0	-									
TOTALS		FLT HRS	17.0	6.0	SIM HOURS								

KC-130J CREW CHIEF														
6000 REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS														
STAGE	TRNG CODE	EVENT DEB,SC	ACADEMIC HOURS	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
AIRCRAFT SYSTEMS TRAINING														
SYS	6000	APU		4.0		*	A	1	(N)	6111	B,SC,R	.	.	602
SYS	6001	ENGINE		4.0		*	A	1	(N)	6000	B,SC,R	.	.	602
SYS	6002	PROPELLERS		4.0		*	A	1	(N)	6001	B,SC,R	.	.	603
SYS	6003	ELECTRICAL		4.0		*	A	1	(N)	6002	B,SC,R	.	.	604
SYS	6004	BLEED AIR		4.0		*	A	1	(N)	6003	B,SC,R	.	.	605
SYS	6005	FUEL		4.0		*	A	1	(N)	6004	B,SC,R	.	.	606
SYS	6006	HYDRAULIC		4.0		*	A	1	(N)	6005	B,SC,R	.	.	607
SYS	6007	AC / PRESSURIZATION		4.0		*	A	1	(N)	6006	B,SC,R	.	.	608
SYS	6008	COMM / NAV		4.0		*	A	1	(N)	6007	B,SC,R	.	.	609
ACADEMIC EVALUATION														
NTPS	6010	NATOPS OPEN BOOK EXAM	3.0	-		365	-	-	-	1000 complete	B,SC,R	E	.	.
NTPS	6011	NATOPS CLOSED BOOK EXAM	1.0	-		365	-	-	-	1000 complete	B,SC,R	E	.	.
NTPS	6012	NATOPS ORAL EXAM	3.0	-		365	-	-	-	1000 complete	B,SC,R	E	.	.
RIGHT SEAT TAXI OBSERVER														
RSTO	6015	RIGHT SEAT TAXI OBSERVER INTRO		2.0		*	A/S	1	(N)	6111	B,SC,R	.	.	.
RSTO	6016	RIGHT SEAT TAXI OBSERVER QUAL		1.0		*	A	1	(N)	6015	B,SC,R	.	.	.
ENGINE RUN														
ER	6017	ENGINE RUN		3.0		*	A/S	1	(N)	6118	B,SC,R	.	.	611
ER	6018	RUN EVAL		3.0		*	A	1	(N)	6017	B,SC,R	E	.	613
FCF														
FCF	6105	PARTIAL FCF QUAL		2.0		*	A	1	D	6118	B,SC,R	.	.	678
FCF	6106	FULL FCF INTRO		4.0		*	A/S	1	D	6118	B,SC,R	.	.	679
FCF	6107	FULL FCF QUAL		4.0		*	A	1	D	6106	B,SC,R	.	.	680
NATOPS CHECK														
NTPS	6111	CC 1		4.0		365	A	1	(N)	1000 Complete	B,SC,R	E	.	690
NTPS	6118	CC 2		4.0		365	A	1	(N)	2000/3000 Complete	B,SC,R	E	.	691
TOTALS			7.0	70.0	0.0	SIM HOURS								

314. SYLLABUS EVALUATION FORMS. These forms are maintained on the MAWTS-1 website and can be downloaded from that location.

CHAPTER 4

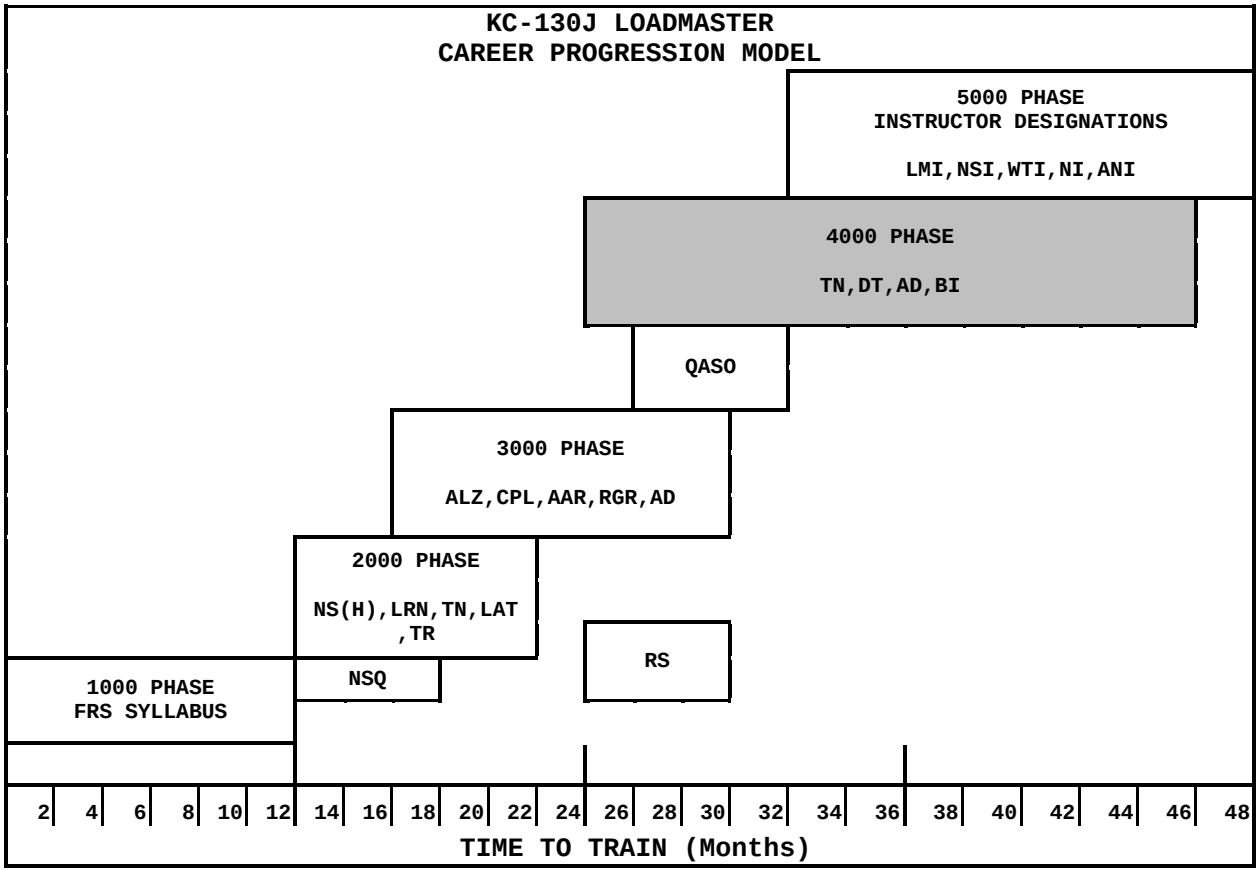
KC-130J LOADMASTER

CHAPTER 4

KC-130J LOADMASTER (MOS 7382)

400. 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.

401. TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average Loadmaster. Units should use the model as a point of departure to generate individual training plans.



402. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. A CSP crew consists of individuals representing each crew position who have achieved and currently maintain individual CSP. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated in the below paragraphs.

1. Events Required to Attain Individual CSP. To initially attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) ATTAIN TABLE KC-130J Loadmaster						
T&R events required to Attain CSP (2000 Phase)						
NS(H)	**LRN**	**TN**	**LAT**	**SEC FORM**	**DIV FORM**	**TR**
2150R	2162R	2201	2261R			2400R
		2250R				
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

2. Required to Maintain Individual CSP. To maintain CSP in a Core Skill, an individual must maintain proficiency in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) MAINTAIN TABLE KC-130J Loadmaster						
T&R events required to Maintain CSP (2000 Phase)						
NS(H)	**LRN**	**TN**	**LAT**	**SEC FORM**	**DIV FORM**	**TR**
2150R	2162R	2250R	2261R			2400R
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

403. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. A MSP crew consists of individuals representing each crew position who have achieved and currently maintain individual MSP. To be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated in the paragraphs.

1. Events Required to Attain Individual MSP. To initially attain MSP in a Mission Skill, an individual must simultaneously have a proficient status in all 300 phases T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE KC-130J Loadmaster				
T&R events required to Attain MSP (3000 Phase)				
ALZ	**CPL**	**AAR**	**RGR**	**AD**
3502R	3510R	3600	3661	3702R
3503R	3511R	3601	3651R	3703R
	3512R	3650R		3704R
	3513R			
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

2. Events Required to Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 phase T&R events listed for that Mission Skill.

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE KC-130J Loadmaster				
T&R events required to Maintain MSP (3000 Phase)				
ALZ	**CPL**	**AAR**	**RGR**	**AD**
3502R	3510R	3650R	3651R	3702R
3503R	3511R			3703R
	3512R			3704R
	3513R			
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

3. Events Required to Attain Individual Proficiency in Core Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus Skills is at the discretion of the unit commanding officer. To Initially attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events listed for that Core Plus Skill:

INDIVIDUAL CORE PLUS SKILL PROFICIENCY ATTAIN TABLE KC-130J Loadmaster						
T&R events required to Attain Core Plus Proficiency (4000 Phase)						
CORE PLUS SKILLS						**MISSION PLUS**
TN	**NS(L)**	**TR**	**DT**	**AAR**	**AD**	**BI**
4251R			4411R		4700R	4710R
					4701R	
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

4. Events Required to Maintain Individual Proficiency in a Core Plus Skills. To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

INDIVIDUAL CORE PLUS SKILL PROFICIENCY MAINTAIN TABLE KC-130J Loadmaster						
T&R events required to Maintain Core Plus Proficiency (4000 Phase)						
CORE PLUS SKILLS						**MISSION PLUS**
TN	**NS(L)**	**TR**	**DT**	**AAR**	**AD**	**BI**
4251R			4411R		4700R	4710R
					4701R	
Gray highlight & an R suffix on the event code = Refresher POI						
An S prefix on the event code = Event conducted in a simulator						

404. REQUIREMENTS, QUALIFICATION AND DESIGNATIONS. The tables below delineate T&R events required to be completed to attain proficiency, and initial qualifications and designations. In addition to event requirements all required stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, Qualification and designation letters signed by the commanding officer shall be placed in Individual Performance Records (IPR). 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.

INDIVIDUAL QUALIFICATION REQUIREMENTS	
Qualification	**Event Requirements**
Night Systems Qualification	2150, IAW the MAWTS-1 KC-130J Course Catalog
Day RS	6662
NS RS	6652
QASO	6710
R = Refresher POI events for re-qualification	

INDIVIDUAL DESIGNATION REQUIREMENTS	
Designation	**Event Requirements**
NATOPS	IAW OPNAVINST 3710.7_, 1000 Phase complete
Loadmaster Instructor	The PLMI shall complete the 2000 and 3000 phases of training prior to beginning LMI syllabus.
ANI NI	5140, 5141, IAW OPNAVINST 3710.7_
NSI	2150, 5150, 5151, 5152 IAW the MAWTS-1 KC-130J Course Catalog
WTI	IAW the MAWTS-1 WTI Course Catalog

405. PROGRAMS OF INSTRUCTION

1. Basic, Transition, Conversion POI

Weeks	Course/Level	Activity
1-6	Naval Aircrewman Candidate School	NAS Pensacola, FL
7-11	USAF Basic Loadmaster Course	Little Rock AFB, AR
12-18	USAF Loadmaster Initial Qualification Course	Little Rock AFB, AR
19-25	USAF Loadmaster Mission Qualification Course	Little Rock AFB, AR
26-28	Survival, Evasion, Resistance, and Escape Course	NAS North Island, FL NAS Brunswick, ME
29-43	Core Skill Introduction Training	Tactical Squadron
44-60	Core Skill Training	Tactical Squadron
61-80	Mission Skill Training	Tactical Squadron
81-120	Core Skill Plus Training	Tactical Squadron

2. Series Conversion POI

Weeks	Course/Level	Activity
1	Academic Ground Training	Tactical Squadron
2	Core Skill Introduction Training	Tactical Squadron
3	Core Skill Training	Tactical Squadron
4-5	Mission Skill Training	Tactical Squadron
6-7	Core Skill Plus Training	Tactical Squadron

3. Refresher POI

Weeks	Course/Level	Activity
1-2	Academic Ground Training	Tactical Squadron
3-8	Core Skill Introduction Training	Tactical Squadron
9-25	Core Skill Training	Tactical Squadron
26-45	Mission Skill Training	Tactical Squadron
46-86	Core Skill Plus Training	Tactical Squadron

4. Instructor POI

Weeks	Course/Level	Activity
1	Standardization Training	Tactical Squadron
2-4	Flight Training	Tactical Squadron

406. ACADEMIC TRAINING

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

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

Course	Activity
Naval Aircrewman Candidate School (NACCS)	NAS Pensacola, FL
Survival, Evasion, Resistance, and Escape Course	NAS North Island, FL NAS Brunswick, ME
Weapons and Tactics Instructor Course	MAWTS-1
Night Imaging and Threat Evaluation (NITE) Lab	Tactical Squadron
Basic Instructor Training Course	MCAS New River, NC
Crew Resource Management Instructor	NAS Pensacola, FL or Mobile Training Team
Advanced Airlift Tactical Training Course (AATTC)	St. Joseph, MO

3. The following external training courses are recommended in addition to the syllabus:

Course	Activity
Environmental Survival Course	Regional / seasonal survival schools
Joint Airdrop Inspector Course	Ft. Lee, VA
Hazardous Materials Preparer Course	MCAS New River, NC
Forklift Operators Course	Base Motor Transport
Aircraft Weight and Balance Course	CNATT

4. The following Aircrew Training references shall be used to ensure safe and standardized training, grading criteria, and aircraft operation:

NATOPS General Flight and Operating Instructions (OPNAVINST 3710.7_)
NATOPS Flight Manuals (NFM)
KC-130 ANTTP Series (TACMAN)
Aviation T&R Program Manual
Crew Resource Management Program Manual (OPNAVINST 1542.7_)
MAWTS-1 KC-130J Course Catalog
MAWTS-1 WTI Course Catalog
Allied Tactical Publication - 56 (ATP-56) Air to Air Refueling
FMFM 10-500 Series Air Delivery Rigging Manuals (as applicable)
NAVAIR KC/C-130 NAVAIR 01-75GAA-9s
Flight Clearances (FC) – issued by NAVAIR

407. CORE SKILL INTRODUCTION PHASE

1. General

a. The Loadmaster will be capable of basic duties to include normal and emergency procedures and CRM after successful completion of a NATOPS evaluation. LMUIs shall attend NITE Laboratory within this phase of training.

b. Stages. Familiarization, Night Systems High, Tactical Navigation, Cargo and Passenger Loading, Air to Air Refueling, Rapid Ground Refueling.

2. Familiarization (FAM)

a. Purpose. Train the LMUI to perform the basic NATOPS flight crew requirements, aircraft preflight, systems operation, location and use of emergency equipment, ground and in-flight emergency procedures, and aircraft post flight procedures.

b. General. Upon completion of this phase of training the Loadmaster under instruction (LMUI) will possess a general understanding of squadron and aircraft operations to include emergency procedures.

c. Crew Requirements. Loadmaster Instructor.

d. Academic Training. Prior to FAM-1000 complete, ground school courses consisting of basic aircraft systems descriptions, cockpit resource management, basic weight and balance, aircraft pre-flight and post-flight procedures, normal and emergency procedures to include donning and use of all emergency equipment. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and as directed by the Aviation Training Unit.

FAM-1100	4.0	*	B, R	1 GFT	S/A	D

Goal. Familiarize the LMUI to the tactical squadron and KC-130J.

Requirement. The LMUI will be given detailed instruction on applicable directives, location of work spaces and hazard areas. The instructor will demonstrate and discuss aircraft features, aircraft preflight and post-flight, emergency signals, emergency equipment, and ground emergency procedures.

Performance Standard. Satisfactory completion of procedures per the NFM and Squadron SOP.

FAM-1101	4.0	*	B, R	1 GFT	S/A	D

Goal. Continue familiarization of the LMUI to tactical squadron and KC-130J.

Requirement. The LMI will discuss and/or demonstrate all aircraft emergency procedures with the LMUI.

Performance Standard. Satisfactory completion of procedures per the NFM and Squadron SOP.

Prerequisite. FAM-1100.

FAM-1102	4.0	*	B,SC,R	1 GFT	S/A	D

Goal. Discuss and/or demonstrate CNI-MU data entry, AMU and CNBP functions. Introduce power-on preflight, and continued instruction of aircraft emergency procedures.

Requirement. The LMUI will conduct power-on preflight items, enter a completed Form F, and perform asterisk (*) steps for aircraft emergency procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, Squadron SOP, and NAVAIR 01-75GAA-9.

Prerequisite. FAM-1101.

FAM-1103	4.0	*	B,SC,R	1 GFT	S/A	D

Goal. Continue introduction of CNI-MU data entry, aircraft pre-flight, and aircraft emergency procedures.

Requirement. The LMUI will conduct aircraft preflight with power on, complete a Form F, and practice emergency procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, Squadron SOP, and NAVAIR 01-75GAA-9.

Prerequisite. FAM-1102.

FAM-1104	4.0	*	B,SC,R	1 KC-130	A	D

Goal. Review CNI-MU data entry, aircraft pre-flight, and aircraft emergency procedures.

Requirement. The LMUI will conduct aircraft preflight with power on, complete a Form F, and practice emergency procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, Squadron SOP, and NAVAIR 01-75GAA-9.

Prerequisite. FAM-1103.

FAM-1105	4.0	*	B,SC,R	1 KC-130	A	D

Goal. Evaluate CNI-MU data entry, aircraft pre-flight, and aircraft emergency procedures.

Requirement. The LMUI will conduct aircraft preflight with power on, complete a Form F, and practice emergency procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, Squadron SOP, and NAVAIR 01-75GAA-9.

Prerequisite. FAM-1104.

3. Night Systems (NS(H))

a. Purpose. To develop proficiency operating aircraft at night using night vision devices in a non-LAT environment.

b. General. Loadmasters conducting NS training shall be instructed by an NSI for all initial NS codes.

c. Crew Requirements. NATOPS minimum crew or greater unless otherwise specified for the event.

d. Academic Training. MAWTS-1 NVD ASP courses and NITE lab.

NS(H)-1150	2.0	*	B	1 KC-130J	A	NS

Goal. Discuss/demonstrate and familiarize the LMUI with HLL NS(H) operations.

Requirement. The instructor will discuss NVD features and characteristics, followed by inspection/adjustment. LMUI be given an exterior lighting demonstration with NVDs. Emphasize aircraft lighting in normal, NVIS, covert modes, and variations that occur with different terrain/water, cultural lighting and contrast under high light conditions.

Performance Standard. Satisfactory completion per NFM, KC130 ANTTP, and OPNAVINST 3710.7_.

Prerequisite. MAWTS-1 NVD ASP ground instruction and NITE lab.

NS(H)-1151	3.0	*	B	1 KC-130J	A	NS

Goal. Discuss/demonstrate and familiarize the LMUI with LLL NS operations.

Requirement. Conduct all operations included in NS-1150 under LLL conditions.

Performance Standard. Satisfactory completion per NFM, KC130 ANTTP, and OPNAVINST 3710.7_.

Prerequisite. NS(H)-1150.

4. Tactical Navigation (TN)

a. Purpose. Introduce the Loadmaster to the skills and duties of aft lookout doctrine in the tactical navigation environment.

b. General. The LMUI will demonstrate threat recognition, and hazards associated with tactical navigation regime.

c. Crew Requirements. LMUI and qualified Instructor.

d. Academic Training. Utilize academic courseware as outlined in the appropriate Type/Model/Series chapter of the MAWTS-1 KC-130J Course Catalog.

TN-1200	2.0	*	B	1 KC-130	A	D

Goal. Discuss/demonstrate the duties of an aft lookout during day tactical navigation mission.

Requirement. The LMUI will perform the duties of an aft lookout during a day tactical navigation mission, cargo compartment preparation, crew briefing, lookout doctrine, scan for threats and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion of procedures per the NFM, KC-130 ANTTP.

5. Cargo and Passenger Loading (CPL)

a. Purpose. Refresh the LMUI in cargo and passenger loading. A load simulator is the preferred training device for this stage. A KC-130J aircraft may be used as a substitute. At the end of this phase of instruction the LMUI will be familiar with cargo/passenger loading techniques, such as:

(1) Preflight and configure an aircraft per mission requirements for flights involving passengers and/or cargo.

(2) Determine available seating and/or cargo space for load planning purposes.

(3) Utilize all KC-130 loading aids conforming to the limitations, installations, and usage of each PER NAVAIR 01-75GAA-9.

(4) Safely load and off-load cargo per NAVAIR 01-75GAA-9.

(5) Compute weight and balance for a simulated flight transporting a passenger/cargo payload.

(6) Postflight aircraft and perform minor repairs as necessary to return cargo compartment to full operational readiness.

b. Crew Requirements. Loadmaster Instructor and LMUI(s).

CPL-1510	4.0	*	B	1 LST	S/A	D

Goal. Discuss and/or demonstrate loading passengers, baggage, and rolling stock.

Requirement. The instructor will discuss and demonstrate aircraft configuration for a flight transporting the maximum load allowable with passengers, baggage and rolling stock, as well as winching procedures and limitations, loading & tie down procedures, passenger brief and accurate passenger manifesting. The LMUI will demonstrate the installation of centerline & sidewall seats, seat spacing configurations, as well as a partial setup of litters. The LMUI will prepare a Form F. In-flight cargo jettison procedures and tanker considerations will be thoroughly discussed.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

External Syllabus Support. External Embarkation Support.

CPL-1511	4.0	*	B	1 LST	S/A	D

Goal. Discuss and/or demonstrate procedures for loading palletized cargo.

Requirement. Discuss and demonstrate aircraft configuration for a flight transporting palletized cargo, tanker considerations, preflight inspection & operation of the dual rail system, and utilization of a forklift as the primary loading vehicle. The LMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly discussed.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

External Syllabus Support. External Embarkation Support.

CPL-1512	4.0	*	B	1 LST	S/A	D

Goal. Discuss and/or demonstrate loading hazardous cargo.

Requirement. Discuss and demonstrate configuration of an aircraft for a flight transporting hazardous cargo. The LMUI will be introduced to Shippers Declaration forms and the MCO P4030.19_.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_, MCO P4030.19_, and Sqdn SOP.

External Syllabus Support. External Embarkation Support.

CPL-1513	4.0	*	B	1 KC-130J	A	D

Goal. Introduce and review loading of passengers and bags.

Requirement. Introduce and review passenger configurations, litter configurations, over water considerations, and passenger brief. The LMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the LMUI.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

Prerequisite. CPL-1510.

External Syllabus Support. External Embarkation Support.

CPL-1514	3.0	*	B	1 KC-130J	A	D

Goal. Introduce and review loading of rolling stock.

Requirement. Introduce and review configurations for various pieces of rolling stock. The LMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the LMUI.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

Prerequisite. CPL-1510.

External Syllabus Support. External Embarkation Support.

CPL-1515	3.0	*	B	1 KC-130J	A	D

Goal. Introduce and review palletized cargo loading.

Requirement. Introduce and review aircraft configurations for a flight transporting palletized cargo. Discuss tanker considerations, demonstrate preflight and postflight & operation of the dual rail system. A forklift should be used as the primary loading vehicle. The LMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the LMUI.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

Prerequisite. CPL-1511.

External Syllabus Support. External Embarkation Support.

CPL-1516	3.0	*	B	1 KC-130J	A	D

Goal. Introduce and review hazardous cargo.

Requirement. Introduce and review considerations involved in preparing aircraft and gear for transportation of hazardous cargo. Ground evacuation and cargo jettison will be thoroughly reviewed taking into account hazardous material considerations. The LMUI will prepare a Form F.

Performance Standard. Satisfactory completion of procedures per the NFM, and NAVAIR 01-75GAA-9, OPNAVINST 3710.7_ and Sqdn SOP.

Prerequisite. CPL-1512.

External Syllabus Support. External Embarkation Support.

6. Air to Air Refueling (AAR)

a. Purpose. Familiarize Loadmasters with basic air refueling procedures and terminology.

b. General. Train the LMUI to perform the duties of an in-flight refueling observer. At the end of this phase of training the LMUI will be able to:

(1) Preflight the aircraft per specific mission requirements.

(2) Compute and file an accurate weight and balance form for the aircraft.

(3) Perform duties as an in-flight refueling observer during hose checks, correctly identifying the status of the system's operation, and communicating this status with the crew.

(4) Perform duties as an in-flight refueling observer during refueling operations, correctly informing the Plane Commander of the status of the refueling system and receiver aircraft.

(5) Keep accurate records of the refueling evolution.

(6) Correctly perform all related emergency procedures.

c. Crew Requirements. Loadmaster Instructor and LMUI.

d. Academic Training. Prior to AR-150, successfully complete the familiarization codes prior to conducting this phase of training.

AAR-1600	2.0	*	B	1 KC-130J	A	D

Goal. Introduce and review the duties of an in-flight refueling observer during a day fixed-wing or tilt rotor AAR mission.

Requirement. The LMUI will perform refueling observer duties during a day AAR mission. This flight should involve refueling multiple aircraft, observation from both sides of the aircraft, and respond to all ICS and radio transmissions during the entire evolution. The LMUI will demonstrate a thorough understanding of all air to air refueling terminology and the use of EMCON procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, and ATP-56B.

Prerequisite. Air to air refueling ground training will be completed prior to this flight; FAM-1105

External Syllabus Support. Fixed Wing or Tilt/Rotor receiver.

AAR-1601	2.0	*	B	1 KC-130J	A	D

Goal. Introduce and review the duties of an in-flight refueling observer during a day helicopter air to air refueling mission.

Requirement. The LMUI will perform refueling observer duties during a day air to air refueling mission. This flight should involve refueling multiple aircraft, observation from both sides of the aircraft, and respond to all ICS and radio transmissions during the entire evolution. The LMUI will demonstrate a thorough understanding of all air to air refueling terminology and the use of EMCON procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, and ATP-56B.

Prerequisite. Air to air refueling ground training will be completed prior to this flight; FAM-1105.

External Syllabus Support. Receiver.

7. Rapid Ground Refueling (RGR)

a. Purpose. Introduce LMUI to RGR operations.

b. Academic Training. Use academic courseware as outlined in the appropriate Type/Model/Series chapter of the MAWTS-1 KC-130J Course Catalog.

RGR-1610	2.0	*	B	1 KC-130J	A/S	D

Goal. Introduce and review to basic RGR equipment, setup, and operations.

Requirement. The LMUI will be given detailed instruction in RGR equipment, setup, and operation.

Performance Standard. Satisfactory completion of procedures per the ANTTP.

408. CORE SKILL PHASE

1. General

a. Upon completion of this phase of training, the Loadmaster will be qualified in Core Skills. These skills include Night Systems High(NS(H)), Long Range Navigation (LRN), Tactical Navigation (TN), day Low Altitude Tactics (LAT), and ground based Threat Reaction (TR). When the Loadmaster has attained the RQD-6118 and subsequent initial events have been successfully completed the Loadmaster is qualified in that event.

b. Stages. Night Systems, Long Range Navigation, Tactical Navigation, Low Altitude Tactics, Threat Reaction.

2. Night Systems

a. Purpose. To develop proficiency in night aircraft operations operating using night vision devices.

b. General. Loadmasters conducting NS training shall be instructed by a NSI for all initial codes.

c. Crew Requirements. NSI

d. Academic Training. MAWTS-1 NVD ASP courses and NITE lab (includes Night Vision Systems, NS Human Factors and Night Environment ASPs).

NS(H)-2150	2.0	365	B,R	1 KC-130J	A	NS

Goal. Qualify the Loadmaster in NS operations.

Requirement. Review and evaluate NS flight operations.

Performance Standard. Satisfactory completion per NFM, ANTTP, and OPNAVINST 3710.7_.

Prerequisite. NS(H)-1151 and 10 hours of NVD time (5 shall be in low-light conditions).

3. Long Range Navigation (LRN)

a. Purpose. Train the Loadmaster in requirements for OCONUS operations.

b. General. This stage should have, at least, one mission that remains overnight outside the continental United States and requires clearing customs in a foreign country.

c. Academic Training. LMUI will receive instruction in the use of the Foreign Clearance Guide (FCG), Flight Information Handbook (FIH), and International Civil Aviation Organization (ICAO) procedures.

LRN-2162	6.0	730	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or maintain proficiency for long range navigation procedures.

Requirement. Perform all duties as a Loadmaster for LRNAV operations. A thorough understanding of all publications and requirements associated with this mission will be demonstrated.

Performance Standard
Demonstrate a thorough understanding of the FCG, FIH, and ICAO procedures. Obtain and complete all paperwork related to arriving and departing an OCONUS location.

4. Tactical Navigation (TN)

a. Purpose. To introduce, qualify, or to maintain proficiency for the Low Level qualified Loadmaster in the unique tasks and requirements associated with low level flights.

b. General. Loadmasters conducting NS training shall be instructed by an NSI for all initial codes.

c. Crew Requirements. LMI; (NSI).

d. Academic Training. Review NATOPS Flight Manual, ANTTP, and MAWTS-1 ASP Low Level Navigation Courseware.

TN-2201	2.0	365	B	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in TN aft lookout duties.

Requirement. The LMUI will perform the duties of an aft lookout during a day TN mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion of the procedures per the NFM and ANTTP.

Prerequisite. TN-1200

TN-2250	2.0	365	B,R	1 KC-130J	A	NS

Goal. Qualify or maintain proficiency in TN aft lookout duties using NVDs.

Requirement. The Loadmaster will perform the duties of an aft lookout during a TN mission using NVDs. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threat, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion of the procedures per the NFM and ANTTP standards.

Prerequisite. MAWTS-1 approved ground course, NS-2150, TN-2201.

5. Low Altitude Tactics (LAT)

a. Purpose. To introduce, qualify, or to maintain proficiency for the LAT Loadmaster in the unique tasks and requirements associated with flying in the LAT environment.

b. General. This stage of instruction shall be taught locally per the MAWTS-1 ASP, or in conjunction with AATTC.

c. Crew Requirements. LMI

d. Academic Training. MAWTS-1 ASP courseware for LAT and review ANTTP.

LAT-2261	2.0	365	B,R	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in the duties as an aft lookout, in a ground threat environment.

Requirement. The Loadmaster will perform the duties of an aft lookout during a LAT mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination, and combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. TN-2201.

External Syllabus Support. LAT approved course.

6. Threat Reaction (TR)

a. Purpose. Introduce and maintain currency in the use of defensive maneuvering coordinated with Aircraft Survivability Equipment (ASE) suite against surface-to-air threat systems.

b. General

(1) Aircraft must have fully operational ASE suite.

(2) Appropriate decoy flares must be loaded prior to flight.

(3) Threat emitters should be available.

(4) Initial code training shall be conducted WTI.

c. Academic Training. The Loadmaster shall review pertinent chapters in the ANTTP 3-22.3-KC130 and receive:

(1) MAWTS-1 ASP course on Tactical Aircrew Coordination.

(2) MAWTS-1 ASP course on KC-130 Specific Threat Counter-Tactics.

(3) MAWTS-1 ASP for KC-130J ASE equipment.

TR-2400	2.0	365	B,R	1 KC-130	A	(N)

Goal. Qualify or maintain proficiency in lookout duties as they pertain to surface to air threats.

Requirement. Introduce the use of the ASE suite, in combination with tactical maneuvering, to defeat a ground-based threat. Demonstrate an understanding of ASE suite in all modes of operation.

Performance Standard. Satisfactory execution of procedures per the MAWTS-1 ASP, NFM, and ANTTP.

Prerequisite. (NS 2150).

Ordnance. 120 Flares.

External Syllabus Support. ASE range.

409. MISSION SKILL PHASE

1. General

a. Upon completion of this phase of training, the Loadmaster will be qualified in Mission Skills. These skills include Assault Landing Zone (ALZ), Cargo and Passenger Loading (CPL), Air to Air Refueling (AAR), Rapid Ground Refueling (RGR), and Air Delivery (AD). When the Loadmaster has attained the RQD-6118 and subsequent initial events have been successfully completed the Loadmaster is qualified in that event.

b. Stages. Assault Landing Zone, Cargo and Passenger Loading, Air to Air Refueling, Rapid Ground Refueling, and Air Delivery.

2. Assault Landing Zone (ALZ)

a. Purpose. Introduce day and night ALZ operations, culminating in an engine running on/offload (ERO), or combat offload, and to introduce the use of NVDs in the ALZ environment.

b. Academic Training. Review ALZ operations and ERO procedures in ANTTP. Review MAWTS-1 ASP ALZ courseware.

ALZ-3502	1.0	365	B,R	1 KC-130	A	(N)

Goal. Qualify or maintain proficiency in Combat Offload (COL).

Requirement. Demonstrate procedures for preparation of thee cargo compartment for ALZ operations and combat offload, as well as direct the pilot in reverse taxi procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150)

External Syllabus Support. USMC MMT, MWSS, EAF or USAF Combat Control Team with appropriate expeditionary airfield ALZ Marking/ Lighting and ARFF Support.

ALZ-3503	1.0	365	B,R	1 KC-130	A	(N)

Goal. Qualify or maintain proficiency in Engine Running Offload (ERO).

Requirement. The Loadmaster will demonstrate the ability to prepare the cargo compartment for ALZ operations, conduct an ERO, and direct the pilot in reverse taxi procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150).

External Syllabus Support. USMC MMT, MWSS EAF or USAF Combat Control Team with appropriate expeditionary airfield ALZ Marking/ Lighting and Crash/Fire/Rescue Support.

3. Cargo and Passenger Flights (CPL)

a. Purpose. Continue the Loadmaster's CPL instruction.

b. General

(1) Preflight and configure an aircraft per mission requirements for flights involving passengers and/or cargo.

(2) Determine available seating and/or cargo space for load planning purposes.

(3) Use all loading aids conforming to the limitations, installations, and usage of each per NAVAIR 01-75GAA-9.

(4) Load and off-load cargo per NAVAIR 01-75GAA-9.

(5) Compute weight and balance for a flight transporting a passenger and/or cargo payload.

(6) Postflight aircraft and perform minor repairs as necessary to return cargo compartment to full operational readiness.

CPL-3510	3.0	365	B,R	1 KC-130J	A/S	(N)

Goal. Qualify or maintain proficiency in loading passengers with bags.

Requirement. The Loadmaster will configure an aircraft for a flight transporting passengers and baggage.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_.

Prerequisite. CPL-1513, (NS(H)-2150).

CPL-3511	3.0	365	B,R	1 KC-130J	A/S	(N)

Goal. Qualify or maintain proficiency in loading rolling stock.

Requirement. The Loadmaster will configure an aircraft for a flight transporting rolling stock.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_.

Prerequisite. CPL-1514, (NS(H)-2150).

CPL-3512	3.0	365	B,R	1 KC-130J	A/S	(N)

Goal. Qualify or maintain proficiency in loading palletized cargo.

Requirement. The Loadmaster will configure and load an aircraft for a flight transporting palletized cargo. The Loadmaster shall employ the cargo handling system.

Performance Standard. Per the NFM, and NAVAIR 01-75GAA-9 and OPNAVINST 3710.7_.

Prerequisite. CPL-1515, (NS(H)-2150).

CPL-3513	3.0	365	B,R	1 KC-130J	A/S	(N)

Goal. Qualify or maintain proficiency in loading hazardous cargo.

Requirement. The Loadmaster will configure an aircraft for a flight transporting hazardous cargo IAW MCO P4030.19_.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_, and MCO P4030.19_.

Prerequisite. CPL-1516, (NS(H)-2150).

4. Air to Air Refueling (AAR)

a. Purpose. Continue instruction in AAR observer duties, or to maintain proficiency during day and night tactical refueling missions.

b. General. Emission control procedures may be used for any of the events in this stage.

c. Academic Training. Review NFM, ATP-56B, ANTTP, and MAWTS-1 AAR ASP.

AAR-3600	2.0	365	B	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in AAR observer duties for Fixed Wing (FW) or Tilt Rotor (TR) AAR.

Requirement. The Loadmaster shall perform AAR observer duties during FW or TR refueling mission.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1600.

External Syllabus Support. FW/TR receiver aircraft.

AAR-3601	2.0	365	B	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in AAR observer duties for Helicopter AAR.

Requirement. The Loadmaster shall perform AAR observer duties during RW refueling mission.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1601

External Syllabus Support. Receiver aircraft.

AAR-3650	2.0	365	B,R	1 KC-130J	A	NS

Goal. Qualify or maintain proficiency in AAR observer duties using NVDs during AAR.

Requirement. The Loadmaster shall perform AAR observer duties using NVDs.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. NS-2150, AAR-3600, AAR-3601

External Syllabus Support. Receiver aircraft.

5. Rapid Ground Refueling (RGR)

a. Purpose. Qualify or maintain proficiency in RGR missions.

b. Academic Training. Review ANTTP RGR procedures and MAWTS-1 RGR ASP.

RGR-3661	2.0	365	B	1 KC-130J	A	D

Goal. Qualify or maintain currency in RGR point man duties during day RGR operations.

Requirement. The Loadmaster will assist the Refueling Supervisor (RS) in the conduct of a day RGR, minimum 2-point setup, including the actual transfer of fuel to aircraft or tactical ground vehicles (TGV). The Loadmaster will man and perform all duties associated with a refueling point a RGR mission.

Performance Standard. Satisfactorily complete the procedures per NFM and ANTTP.

Prerequisite. RGR-1610

External Syllabus Support. ARFF; aircraft or TGV.

RGR-3651	2.0	365	B,R	1 KC-130J	A	NS

Goal. Qualify or maintain currency in RGR point man duties during night RGR operations.

Requirement. The Loadmaster will assist the Refueling Supervisor (RS) in the conduct of a NS RGR, minimum 2-point setup, including the actual transfer of fuel to aircraft or tactical ground vehicles (TGV). The Loadmaster will man and perform all point man

duties associated with a RGR mission using NVDs. A qualified NS RS LMI may provide initial instruction for this code.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. NS-2150, RGR-3661

External Syllabus Support. ARFF; aircraft or TGV.

6. Air Delivery (AD)

a. Purpose. Qualify or maintain proficiency in Container Delivery System (CDS), Heavy Equipment (HE), and Personnel (PERS) AD missions.

b. General. For initial codes the LMUI will act as the primary LM.

c. Academic Training. Review the NATOPS Flight Manual, NAVAIR 01-75GAA-9, ANTTP, MAWTS-1 AD ASP.

AD-3702	2.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Qualify or maintain proficiency in CDS AD.

Requirement. The Loadmaster will conduct a CDS AD. The Loadmaster will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3512, (NS(H)-2150).

External syllabus. AD platoon; MHE; DZ control

AD-3703	2.0	180	B,R	1 KC-130J	A	(N)

Goal. Qualify or maintain proficiency in HE AD.

Requirement. The Loadmaster will conduct a HE AD. The Loadmaster will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3512, (NS(H)-2150).

External Syllabus Support. AD platoon; MHE; DZ control

AD-3704	2.0	180	B,R	1 KC-130J	A	(N)

Goal. Introduce and qualify, or maintain proficiency in static line PERS AD.

Requirement. The Loadmaster will perform a static PERS AD. The Loadmaster will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3510, (NS(H)-2150).

External Syllabus Support. Parachutists, DZ control, and Flight Physiologist (as required).

410. CORE PLUS PHASE

1. General

a. Upon completion of this phase of training, the Loadmaster will be qualified in Core Plus Skills. These skills include Night System Low (NS(L)), Defensive Tactics (DT), Air Delivery (AD), and Battlefield Illumination (BI). When the Loadmaster has attained the RQD-6118 and subsequent initial events have been successfully completed the Loadmaster is qualified in that event.

b. Stages. Night Systems Low, Defensive Tactics, Air Delivery, and Battlefield Illumination.

2. Night System Low (NS(L))

a. Purpose. Qualify the Loadmaster, or to maintain proficiency in NS(L) in a ground threat environment.

b. General. This stage of instruction shall be taught locally per the MAWTS-1 ASP or in conjunction with AATTC.

c. Academic Training. Complete MAWTS-1 ASP courseware for LAT and review ANTTP.

NS(L)-4251	2.0	365	B,SC,R	1 KC-130J	A	NS

Goal. Introduce, qualify, or maintain proficiency, in the duties as an aft lookout during a NS LAT mission.

Requirement. The Loadmaster will perform the duties of an aft lookout during a NS LAT mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination, and combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP

Prerequisite. NS(H)-2150, LAT-2261, TN-2250.

External Syllabus Support. LAT approved course.

3. Defensive Tactics (DT)

a. Purpose. Introduce and qualify the Loadmaster or maintain proficiency in DT during air-to-air engagements by combining maneuvering and use of the ASE suite.

b. General. The following equipment should be used to complete the event.

(1) Fully operational ASE suite.

(2) Appropriate chaff and decoy flares.

(3) Rear Vision Device (RVD).

c. Academic Training. Prior to DT stage training the Loadmaster shall receive:

(1) MAWTS-1 ASP course on KC-130 Specific Threat Counter Tactics.

(2) MAWTS-1 ASP course on KC-130J ASE equipment.

DT-4411	2.0	365	B,R	1 KC-130J	A	D

Goal. Introduce, qualify, or maintain proficiency in the duties of an aft or RVD lookout, during a DT mission.

Requirement. The Loadmaster will perform the duties of an aft or RVD lookout during a DT flight. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for airborne threats, threat maneuvering calls and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. LAT-2261.

Ordnance. Appropriate chaff and decoy flare load.

External syllabus. Appropriate aggressor aircraft.

4. Air Delivery (AD)

a. Purpose. Introduce, qualify, or maintain proficiency in Loadmaster duties during an air delivery mission.

b. Academic Training. Review the NATOPS Flight Manual, NAVAIR 01-75GAA-9, ANTTP, MAWTS-1 Air Delivery course ware.

AD-4700	2.0	180	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or to maintain proficiency in personnel and cargo combination airdrop.
Requirement. The Loadmaster will perform the duties as primary Loadmaster during a combination airdrop. The Loadmaster will perform preflight, rigging, briefing, loading, and execution and emergency procedures. Use of the BSA and CVR for CDS combo is encouraged when available.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. (NS(H)-2150, AD-3702, AD-3703, AD-4700), AD-3704

External support. Parachutists, AD Platoon, MHE, DZ control, and Flight Physiologist (as required).

AD-4701	2.0	365	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or to maintain proficiency in airdrop of military free fall/high altitude airdrop personnel.

Requirement. The Loadmaster will conduct MFF. The Loadmaster will preflight, rig, brief, load, and execute a free fall airdrop.
Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150), 3702, 3703, 3704

External Support. MFF parachutists, DZ control, and Flight Physiologist (as required).

5. Battlefield Illumination (BI)

a. Purpose. Introduce, qualify, or maintain proficiency in flare delivery procedures.

b. Academic Training. MAWTS-1 Battlefield Illumination ASP.

BI-4710	3.0	365	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or maintain proficiency in battlefield illumination as a Team Member/Team Leader.

Requirement. The Loadmaster will demonstrate the loading and operation of the flare dispenser. The Loadmaster will adhere to crew coordination, safety precautions and emergency procedures.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and ANTTP

Prerequisite. (NS(H)-2150)

Ordnance. Minimum 14 LUU-2 and/or LUU-19 Series APFs are required for initial event.

411. INSTRUCTOR TRAINING PHASE

1. Instructor Stage Training

a. Purpose. Qualify as a Squadron Loadmaster Instructor (LMI), NATOPS Instructor/Assistant NATOPS Instructor (ANI/NI), or Night Systems Instructor (NSI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. Use academic course ware as outlined in the NFM and appropriate Type/Model/Series chapter of the MAWTS-1 KC-130J Course Catalog.

LMI-5100	3.0	*		1 KC-130J	A	(N)

Goal. Begin training Loadmaster Instructor.

Requirement. LM IUT will demonstrate the ability to instruct a Loadmaster in a Core Skill T&R event. The IUT will demonstrate the ability to correct common LMUI errors. The IUT will apply standardized instructional techniques and be instructed by a NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. Should have BITC completed before the completion of this POI.

Prerequisite. NTPS-6118

LMI-5101	3.0	*		1 KC-130J	A	(N)

Goal. Continue Loadmaster Instructor training.

Requirement. LM IUT will demonstrate the ability to instruct a Loadmaster in a Mission Skill T&R event. The IUT will demonstrate the ability to correct common LMUI errors. The IUT will apply standardized instructional techniques and be instructed by a NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. LMI-5100

LMI-5102	2.0	*	E	1 KC-130J	A	(N)

Goal. Loadmaster Instructor Evaluation.

Requirement. IUT will demonstrate the ability to instruct a Loadmaster in a Core Skill/Mission Skill T&R event. The IUT will demonstrate the ability to correct common LMUI errors. The LMIUT will apply standardized instructional techniques and be evaluated by a NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. IUT-5101

NI-5140	2.0	*		1 KC-130J	A	(N)

Goal. Train Loadmaster NI/ANI.

Requirement. NI/ANI IUT will demonstrate the ability to evaluate a Loadmaster in NATOPS procedures. The IUT will apply standardized evaluation techniques.

Performance Standard. IAW NATOPS and OPNAV 3710.7_.

Prerequisite. LMI-5102.

NI-5141	2.0	365	E	1 KC-130J	A	(N)

Goal. ANI/NI Evaluation flight.

Requirement. NI/ANI will evaluate a Loadmaster in NATOPS procedures under supervision of a NE/NI. At the completion of this sortie, the Loadmaster may be designated by the Commanding Officer.

Performance Standard. IAW NFM and OPNAVINST 3710.7_.

Prerequisite. NI-5140.

NS-5150	3.0	*		1 KC-130J	A	NS

Goal. Begin Night Systems Instructor syllabus.

Requirement. IUT will demonstrate the ability to instruct a crewmember in NS Core Skill T&R events and correct common LMUI errors. The IUT will apply standardized instructional techniques.

Performance Standard. IAW MAWTS-1 KC-130J Course Catalog.

Prerequisite. IAW MAWTS-1 KC-130J Course Catalog, NS(H)-2150, LMI-5102

NS-5151	3.0	*		1 KC-130J	A	NS

Goal. Continue Night Systems Instructor syllabus.

Requirement. IUT will demonstrate the ability to instruct a crewmember in NS Mission Skill T&R events and demonstrate the ability to correct common LMUI errors. The IUT will apply standardized instructional techniques

Performance Standard. IAW MAWTS-1 KC-130J Course Catalog.

Prerequisite. NS-5150

NS-5152	2.0	*	E	1 KC-130J	A	NS

Goal. NSI Evaluation.

Requirement. Per MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the NSI designation may be assigned by the Squadron Commanding Officer.

Performance Standard. Satisfactorily execute the procedures per NFM, ANTTP, and MAWTS-1 ASP for NSI.

Prerequisite. NS-5151

External Syllabus Support. MAWTS-1 Instructor

2. Weapons and Tactics Instructor (WTI)

a. Purpose. Certify the KC-130 Loadmaster Instructor as a WTI capable of safely conducting ground and airborne instruction in the KC-130 Loadmaster Core Skill Advanced and Core Skill Plus flight syllabus as outlined in MCO 3500.19 and the MAWTS-1 WTI Course Catalog.

b. General. The KC-130 WTI Syllabus is developed by MAWTS-1 and is conducted in conjunction with the WTI Course. Upon graduation, the candidate will be certified by MAWTS-1 as a WTI Loadmaster. WTI designation can only be made by the squadron commanding officer.

c. Ground Training. As published in the MAWTS-1 WTI Course Catalog.

d. Flight Training. As published in the MAWTS-1 WTI Course Catalog.

412. REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RQD) PHASE

1. Purpose. Track NATOPS Qualifications.

2. General. "E"-coded sorties in the 6000-level phase may be logged in conjunction with any sortie that completes its stage. CSP is not awarded for these 6000 level sorties; however, CSP credit may be obtained by logging the appropriate training code(s) in the 2000-4000 level syllabi. Once the flight to attain the qualification/designation is complete, a letter from the squadron commanding officer awarding the qualification/designation shall be placed in the NATOPS and APR before that qualification/designation can be used.

NTPS-6010	3.0	365	B,SC,R	E	A	

Goal. NATOPS open book exam.

Requirement. Loadmaster will complete a NATOPS open book examination.

Performance Standard. Per NATOPS.

Prerequisites. 1000 Phase complete.

NTPS-6011	1.0	365	B,SC,R	E	A	

Goal. NATOPS closed book exam.

Requirement. Loadmaster will complete a NATOPS closed book examination.

Performance Standard. Per NATOPS.

Prerequisites. 1000 Phase complete.

NTPS-6012	3.0	365	B,SC,R	E	A	

Goal. NATOPS oral exam.

Requirement. Loadmaster will complete a NATOPS oral examination.

Performance Standard. Per NATOPS.

Prerequisites. 1000 Phase complete.

NTPS-6118	3.0	365	B,SC,R	E	A	(N)

Goal. NATOPS Qualification.

Requirement. NATOPS Instructor/Assistant NATOPS Instructor will evaluate the Loadmaster per NATOPS procedures.
Performance Standard. Per NATOPS.

Prerequisites. NTPS 6010, 6011, 6012

RS-6662	2.0	180	B	1 KC-130J	A	D

Goal. Introduce, qualify, or maintain proficiency for day RGR RS.

Requirement. The Loadmaster will plan, brief, and execute a daytime RGR, minimum 2 point setup, including an actual transfer of fuel to aircraft or TGV. This code will be instructed by a WTI.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisites. RGR-3661

External Syllabus Support. ARFF; aircraft or TGV.

RS-6652	2.0	180	B,R	1 KC-130J	A	NS

Goal. Introduce and qualify, or maintain proficiency for NS RGR RS.

Requirement. The Loadmaster will plan, brief, and execute a NS RGR, minimum 2 point setup, including an actual transfer of fuel to aircraft or TGV. This code will be instructed by a WTI.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. NS-2150, RGR-6662

External Syllabus Support. ARFF; aircraft or TGV.

QASO-6710	3.0	180	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or maintain proficiency in battlefield illumination as a Quality Assurance Safety Officer (QASO).

Requirement. The LM will supervise the loading and operation of the flare dispenser. The LM will adhere to crew coordination and, safety precautions while performing duties of a QASO, as defined in the ANTTP. Initial instruction will be conducted by a WTI.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and ANTTP

Prerequisites. (NS(H)-2150), BI-4710.

Ordnance. Minimum 14 LUU-2 and/or LUU-19 Series APFs are required for initial event.

External Support. Ordnance Qualified Personnel.

413. T&R SYLLABUS MATRICES

KC-130J LOADMASTER													
1000 CORE SKILL INTRODUCTION													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
FAMILIARIZATION (FAM)													
FAM	1100	AC & EP Ground Fam 1	-	4.0	*	S/A		D	-	B,R	-	-	000
FAM	1101	AC & EP Ground Fam 2	-	4.0	*	S/A		D	1100	B,R	-	-	001
FAM	1102	CNI-MU, CNBP, AMU Ground Fam 1	-	4.0	*	S/A		D	1101	B,SC,R	-	-	002
FAM	1103	CNI-MU, CNBP, AMU Ground Fam 2	-	4.0	*	S/A		D	1102	B,SC,R	-	-	003
FAM	1104	NATOPS, SOP, & EP Fam Flt 1	4.0	-	*	A	1	D	1103	B,SC,R	-	-	100
FAM	1105	NATOPS, SOP, & EP Fam Flt 2	4.0	-	*	A	1	D	1104	B,SC,R	-	-	101/102
			8.0	16.0									
NIGHT SYSTEMS (NS)													
NS	1150	NS HLL FAM	2.0	-	*	A	1	NS	-	B	-	-	111
NS	1151	NS LLL FAM	3.0	-	*	A	1	NS	1150	B	-	-	112
			5.0	0.0									
TACTICAL NAVIGATION (TN)													
TN	1200	TN INTRO	2.0		*	A	1	D	-	B	-	-	121
			2.0	0.0									
CARGO AND PASSENGER LOADING (CPL)													
CPL	1510	PAX/BAGS & ROLLING STOCK	-	4.0	*	S/A		D	-	B	-	-	005
CPL	1511	PALLETIZED CARGO	-	4.0	*	S/A		D	-	B	-	-	006
CPL	1512	HAZARDOUS CARGO	-	4.0	*	S/A		D	-	B	-	-	007
CPL	1513	PASSENGERS AND BAGS	-	4.0	*	A	1	D	1510	B	-	-	105
CPL	1514	ROLLING STOCK	3.0	-	*	A	1	D	1510	B	-	-	105
CPL	1515	PALLETIZED CARGO	3.0	-	*	A	1	D	1511	B	-	-	106
CPL	1516	HAZARDOUS CARGO	3.0	-	*	A	1	D	1512	B	-	-	107
			9.0	16.0									
AIR TO AIR REFUELING (AAR)													
AAR	1600	FW/TR AAR	2.0	-	*	A	1	D	1105	B	-	-	150
AAR	1601	RW AAR	2.0	-	*	A	1	D	1105	B	-	-	152
			4.0										
RAPID GROUND REFUELING (RGR)													
RGR	1610	RGR INTRO	2.0	-	*	A/S	1	D	-	B	-	-	-
			2.0	-									
TOTALS		FLT HRS	30.0	32.0	SIM HOURS								

KC-130J LOADMASTER													
2000 CORE SKILL													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NIGHT SYSTEMS (NS)													
NS	2150	NS QUAL	2.0	-	365	A	1	NS	1151	B,R	-	-	202
			2.0	0.0									
LONG RANGE NAVIGATION (LRN)													
LRN	2162	LONG RANGE NAV	6.0	-	730	A	1	(N)	-	B, R	-	-	-
			6.0	0.0									
TACTICAL NAVIGATION (TN)													
TN	2201	DAY TN	2.0	-	365	A	1	D	1200	B	-	-	220
TN	2250	NS TN	2.0	-	365	A	1	NS	2150, 2201	B, R	-	2150, 2201	222
			4.0	0.0									
LOW ALTITUDE TACTICS (LAT)													
LAT	2261	DAY LAT	2.0	-	365	A	1	D	2201	B, R	-	2201	321
			2.0	0.0									
THREAT REACTION (TR)													
TR	2400	GROUND THREAT (RF/IR) ASE	2.0	-	365	A	1	(N)	(2150)	B, R	-	-2150	340
			2.0	0.0									
TOTALS		FLT HRS	16.0	0.0	SIM HOURS								

KC-130J LOADMASTER													
3000 MISSION SKILL													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
ASSAULT LANDING ZONE (ALZ)													
ALZ	3502	COMBAT OFFLOAD	1.0	-	365	A	1	(N)	-	B, R	-	(2150)	263
ALZ	3503	ERO	1.0	-	365	A	1	(N)	-	B, R	-	(2150)	264
			2.0	0.0									
CARGO AND PASSENGER LOADING (CPL)													
CPL	3510	PASSENGERS AND BAGS	3.0	-	365	A/S	1	(N)	1513, (2150)	B, R	-	(2150)	205
CPL	3511	ROLLING STOCK	3.0	-	365	A/S	1	(N)	1513, (2150)	B, R	-	(2150)	205
CPL	3512	PALLETIZED CARGO	3.0	-	365	A/S	1	(N)	1514, (2150)	B, R	-	(2150)	206
CPL	3513	HAZMAT	3.0	-	365	A/S	1	(N)	1515, (2150)	B, R	-	(2150)	207
			12.0	0.0									
AIR-TO-AIR REFUELING (AAR)													
AAR	3600	FW/TR AAR	2.0	-	365	A	1	D	1600	B	-	-	250
AAR	3601	RW AAR	2.0	-	365	A	1	D	1601	B	-	3600	252
AAR	3650	NS AAR (FW/TR/RW)	2.0	-	365	A	1	NS	2150, 3600, 3601	B, R	-	2150, (3600, 3601)	253
			6.0	0.0									
RAPID GROUND REFUELING (RGR)													
RGR	3661	DAY POINTMAN	2.0	-	365	A	1	D	1610	B	-	-	270
RGR	3651	NS POINTMAN	2.0	-	365	A	1	NS	2150, 3661	B,R		2150, 3661	271
			4.0	-									
AIR DELIVERY (AD)													
AD	3702	CDS AD	2.0	-	180	A	1	(N)	(2150)	B,SC,R	-	(2150)	380
AD	3703	HE AD	2.0	-	180	A	1	(N)	(2150)	B, R	-	(2150)	381
AD	3704	PERS STATIC LINE AD	2.0	-	180	A	1	(N)	(2150)	B, R	-	(2150)	382
			6.0	0.0									
TOTALS		FLT HRS	30.0	0.0	SIM HOURS								

KC-130J LOADMASTER													
4000 CORE PLUS													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
TACTICAL NAVIGATION (TN)													
NS(L)	4251	NS LAT	2.0	-	365	A	1	NS	2150, 2261, 2250	B,SC,R	-	2150, 2201 2250, 2261	421
			2.0	0.0									
DEFENSIVE TACTICS (DF)													
DT	4411	DEFTAC ASE / RVD	2.0	-	365	A	1	D	2261	B,R	-	2201, 2261	440
			2.0	0.0									
AIR DELIVERY (AD)													
AD	4700	COMBO AD	2.0	-	180	A	1	(N)	(2150) 3702 3703,3704	B,R	-	(2150) 3702 3703,3704	482
AD	4701	MILITARY FREE FALL	2.0	-	365	A	1	(N)	(2150)	B,R	-	(2150)	483
			4.0	0.0									
BATTLEFIELD ILLUMINATION (BI)													
BI	4710	TM / TL	3.0	-	365	A	1	(N)	(2150)	B,R	-	(2150)	485
			3.0	-									
TOTALS		FLT HRS	11.0	0.0	SIM HOURS								

KC-130J LOADMASTER													
5000 INSTRUCTOR TRAINING													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
LOADMASTER INSTRUCTOR (LMI)													
LMI	5100	LMI TRAINING 1	3.0	-	*	A	1	(N)	6118	-	-	-	501
LMI	5101	LMI TRAINING 2	3.0	-	*	A	1	(N)	5100	-	-	-	502
LMI	5102	LMI CHECK	2.0	-	*	A	1	(N)	5101	-	E	-	693
			8.0	0.0									
NATOPS/ASSISTANT NATOPS INSTRUCTOR (NI/ANI)													
NI	5140	NI/ANI TRAINING	2.0	-	*	A	1	(N)	5102	-	-	-	698
NI	5141	NI/ANI CHECK	2.0	-	*	A	1	(N)	5140	-	E	-	699
			4.0	0.0									
MAWTS-1 INSTRUCTOR POIs													
NS	5150	NSI TRAINING 1	3.0	-	*	A	1	NS	2150, 5102	-	-	-	696
NS	5151	NSI TRAINING 2	3.0	-	*	A	1	NS	5150	-	-	-	696
NS	5152	NSI CERTIFICATION	2.0	-	*	A	1	NS	5151	-	E	-	696
			8.0	-									
TOTALS		FLT HRS	16.0	0.0	SIM HOURS								

KC-130J LOADMASTER													
6000 REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS													
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING	EVENT CONV
NATOPS (NTPS)													
NTPS	6010	NATOPS OPEN BOOK EXAM	3.0	-	365	-	-	-	1000 Series Complete	ALL	E	-	690
NTPS	6011	NATOPS CLOSED BOOK EXAM	1.0	-	365	-	-	-	1000 Series Complete	ALL	E	-	690
NTPS	6012	NATOPS ORAL EXAM	3.0	-	365	-	-	-	1000 Series Complete	ALL	E	-	690
NTPS	6118	NATOPS QUALIFICATION	3.0	-	365	A	1	(N)	6010, 6011, 6012	ALL	E	-	690
			7.0	-									
REFUELING SUPERVISOR (RS)													
RS	6662	DAY RS	2.0	-	180	A	1	D	3661	B		3661	370
RS	6652	NVD RS	2.0	-	180	A	1	NS	6662	B,R		2150, 3651, 3661, 6662	371
			10.0	-									
QUALITY ASSURANCE SAFETY OFFICER (QASO)													
QASO	6710	QASO	3.0	-	180	A	1	(N)	(2150), 4710	B,R		(2150), 4710	486
			10.0	-									
TOTALS		FLT HRS	17.0	0.0	SIM HOURS								
$ = Refer to MAWTS-1 KC-130J Course Catalog.													

414. SYLLABUS EVALUATION FORMS. These forms are maintained on the MAWTS-1 website and can be downloaded from that location.

CHAPTER 5

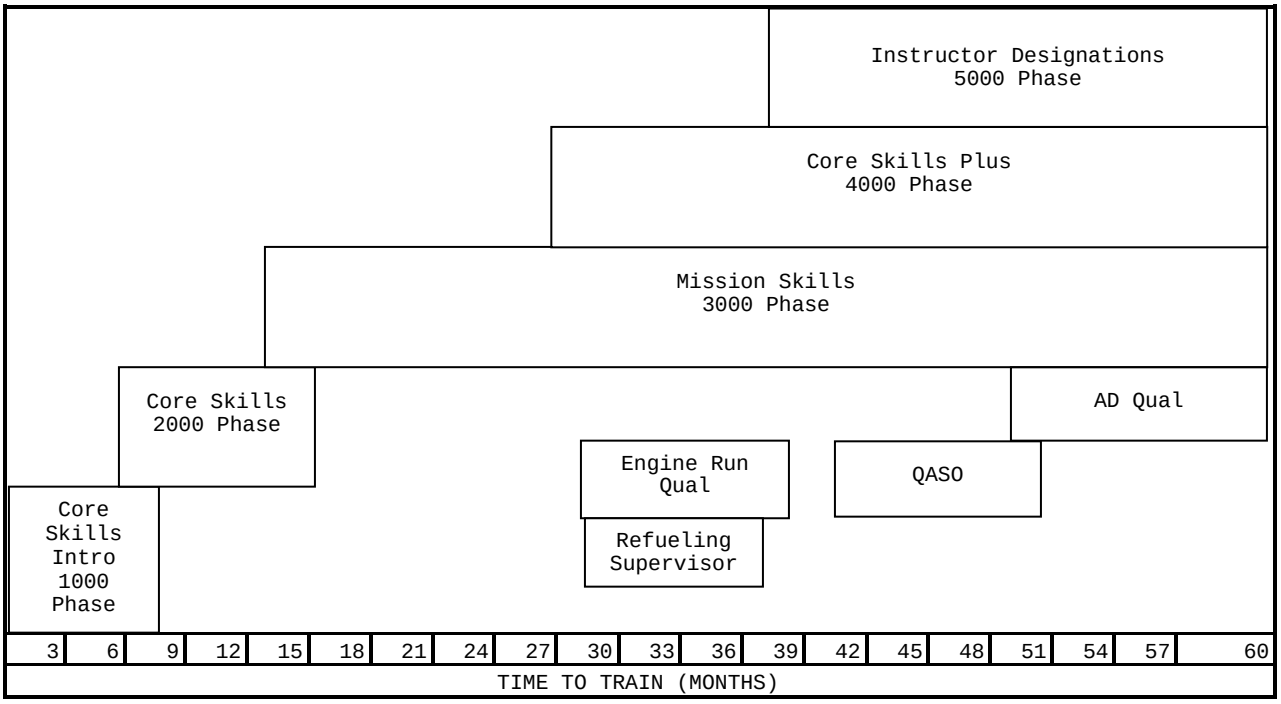
KC-130J CREWMASTER

CHAPTER 5

KC-130J CREWMASTER (MOS 6276)

500. 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.

501. CREWMASTER TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average Crewmaster. Units should use the model as a point of departure to generate individual training plans.



502. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. A CSP crew consists of individuals representing each crew position who have achieved and currently maintain individual CSP. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated in the below paragraphs.

1. Events Required to Attain Individual CSP. To initially attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) ATTAIN TABLE KC-130J Crewmaster				
T&R events required to Attain CSP (2000 Phase)				
NS(H)	**LRN**	**TN**	**LAT**	**TR**
2150R	2162R	2201	2261R	2400R
		2202R	2262R	2401R
		2250R		
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

2. Events Required to Maintain Individual CSP. To maintain CSP in a Core Skill, an individual must maintain proficiency in all 2000 phase T&R events listed for that Core Skill:

INDIVIDUAL CORE SKILL PROFICIENCY (CSP) MAINTAIN TABLE KC-130J Crewmaster				
T&R events required to Maintain CSP (2000 Phase)				
NS(H)	LRN	TN	LAT	TR
2150R	2162R	2202R	2261R	2400R
		2250R	2262R	2401R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

503. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. A MSP crew consists of individuals representing each crew position who have achieved and currently maintain individual MSP. To be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated in the paragraphs.

1. Events Required to Attain Individual MSP. To initially attain MSP in a Mission Skill, an individual must simultaneously have a proficient status in all 3000 phases T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) ATTAIN TABLE KC-130J Crewmaster				
T&R events required to Attain MSP (3000 Phase)				
ALZ	CPL	AAR	RGR	AD
3502R	3510R	3600	3661	3701R
3503R	3511R	3601	3651R	3702R
	3512R	3610		3703R
	3513R	3611		3704R
		3612R		
		3650R		
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

2. Events Required to Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 phase T&R events listed for that Mission Skill:

INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) MAINTAIN TABLE KC-130J Crewmaster				
T&R events required to Maintain MSP (3000 Phase)				
ALZ	CPL	AAR	RGR	AD
3502R	3510R	3612R	3651R	3701R
3503R	3511R	3650R		3702R
	3512R			3703R
	3513R			3704R
Gray highlight & an R suffix on the event code = Refresher POI				
An S prefix on the event code = Event conducted in a simulator				

3. Events Required to Attain Individual Proficiency in Core Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus Skills is at the discretion of the unit commanding officer. To Initially attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events listed for that Core Plus Skill:

INDIVIDUAL CORE PLUS SKILL PROFICIENCY ATTAIN TABLE KC-130J Crewmaster			
T&R events required to Attain Core Plus Proficiency (4000 Phase)			
NS(L)	**DT**	**AD**	**BI**
4251R	4411R	4700R	4710R
		4701R	
Gray highlight & an R suffix on the event code = Refresher POI			
An S prefix on the event code = Event conducted in a simulator			

4. Events Required to Maintain Individual Proficiency in a Core Plus Skills. To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

INDIVIDUAL CORE PLUS SKILL PROFICIENCY MAINTAIN TABLE KC-130J Crewmaster			
T&R events required to Maintain Core Plus Proficiency (4000 Phase)			
NS(L)	**DT**	**AD**	**BI**
4251R	4411R	4700R	4710R
		4701R	
Gray highlight & an R suffix on the event code = Refresher POI			
An S prefix on the event code = Event conducted in a simulator			

504. REQUIREMENTS, QUALIFICATION, AND DESIGNATIONS. The tables below delineate T&R events required to be completed to attain proficiency, and initial qualifications and designations. In addition to event requirements, all required stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, qualification and designation letters signed by the commanding officer shall be placed in Individual Performance Records (IPR). 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.

INDIVIDUAL QUALIFICATION REQUIREMENTS	
Qualification	**Event Requirements**
NATOPS CM1	IAW OPNAVINST 3710.7_, and Core Skill Introduction complete.
NATOPS CM2	IAW OPNAVINST 3710.7_, Core Skill, Mission Skill (minus 3701-3704), 6000 Systems Phase, Right Seat Taxi Observer, and Plane Captain syllabus complete.
Engine Run	6017, 6018, and completion of the Engine Run Syllabus.
Night Systems Qualification	2150, IAW the MAWTS-1 KC-130J Course Catalog (Loadmaster POI)
Functional Check Flight	6105, 6106, 6107
Refueling Supervisor	6662, 6652
Quality Assurance Safety Observer	6653
R = Refresher POI events for re-qualification	

INDIVIDUAL DESIGNATION REQUIREMENTS	
Designation	**Event Requirements**
CPLI*	3510-3513, 5101
FAMI*	2150, 2201, 3600, 3601, 5101
PCI*	2150, 2162, 2202, 2262, 2401, 3503, 3610-3612, 3701, 5101
ADI*	2150, 3702-3704, 4700, 4701, 5101
ANI* NI	5140, 5141, IAW OPNAVINST 3710.7_
NSI*	2150, 5150, 5151, 5152, IAW the MAWTS-1 KC-130J Course Catalog (Loadmaster POI)
WTI*	IAW the MAWTS-1 WTI Course Catalog (Loadmaster POI)

* The 2000 phase of training shall be completed prior to beginning IUT syllabus.

505. PROGRAMS OF INSTRUCTION

1. Basic, Transition POI

Weeks	Course/Level	Activity
1-6	Naval Aircrewman Candidate School	NAS Pensacola, FL
7-9	Survival, Evasion, Resistance, and Escape Course	NAS North Island, FL
		NAS Brunswick, ME
10-23	KC-130J Crewmaster Organizational Ground Maintenance Course	Little Rock AFB, AR
24-26	USAF Basic Loadmaster Course	Little Rock AFB, AR
27-40	USAF Loadmaster Initial Qualification Course	Little Rock AFB, AR
41-77	Core Skill Introduction Training	Tactical Squadron
78-117	Core Skill Training	Tactical Squadron
118-157	Mission Skill Training Minus Air Delivery	Tactical Squadron
158-210	Core Skill Plus Training Minus Air Delivery	Tactical Squadron
211-227	Plane Captain Training	Tactical Squadron
228-235	USAF C-130 Loadmaster Mission Qualification Course (Air Delivery Training)	Little Rock AFB, AR
236-240	Engine Run Training	Tactical Squadron

2. Series Conversion POI

a. KC-130T qualified Flight Engineers should attend ATU approved squadron training. Flight Mechanics will attend the CNATT Crew Chief Ground Maintenance Conversion course. KC-130T qualified Flight Engineers should then be assigned the ATU approved squadron training; Flight Mechanics should attend Loadmaster training at Little Rock AFB. Upon completion they will be assigned to and complete all events within the series conversion POI.

b. KC-130T qualified Loadmasters that received their NATOPS qualification on or before 1 Jul 04 should attend ATU approved squadron training and be assigned the series conversion POI as described below. KC-130T qualified Loadmasters that received their NATOPS qualification after 1 Jul 04 should attend the KC-130J Crewmaster Organizational Ground Maintenance Course.

CM1. To qualify as a CM1, complete the following events: FAM-1000 thru FAM-1109, and NATOPS evaluation.

CM2. To qualify as CM2, complete the following events: NS-2150, LRN-2162, TN-2202, LAT-2262, TR-2401, ALZ-3503, AAR-3610 thru AAR-3612, SYS-6000 thru SYS-6011, RSTO-6015, RSTO-6016, and NTPS-6118.

If any of the following events from the KC-130T LM T&R have been previously completed, the proficiency date will be mirrored into the KC-130J Crewmaster Syllabus: 1000 phase, TN-2201, TN-2250,

LAT-2261, TR-2400, ALZ-3502, CPL-3510 thru CPL-3513, AAR-3650, RGR-3661, RGR-3651, AD-3701, AD-3702, AD-3703, AD-3704.

c. KC-130J qualified Loadmasters that received their NATOPS qualification on or before 1 Jul 04 should attend ATU approved squadron training and be assigned the series conversion POI as described below. KC-130J qualified Loadmasters that qualified after 1 Jul 04 should attend the KC-130J Crewmaster Organizational Ground Maintenance Course.

CM1. To qualify as a CM1, complete the following events: FAM-1000 thru FAM-1109, and NATOPS evaluation.

CM2. To qualify as CM2, complete the following events: LRN-2162, TN-2202, LAT-2262, TR-2401, ALZ-3503, AAR-3610 thru AAR-3612, SYS-6000 thru SYS-6011, RSTO-6015, RSTO-6016, and NTPS-6118.

If any of the following events from the KC-130J LM T&R have been previously completed, the proficiency date will be mirrored into the KC-130J Crewmaster Syllabus: 1000 phase, NS-2150, LRN-2162, TN-2201, TN-2250, LAT-2261, TR-2400, ALZ-3502, CPL-3510 thru CPL-3513, AAR-3650, RGR-3661, RGR-3651, AD-3702, AD-3703, AD-3704.

d. KC-130J qualified Crew Chiefs that have completed their CC2 qualification, Plane Captain designation after 1 Jul 07, and who have been recommended by the squadron NATOPS Evaluator should attend BLM, LMQ, and LIQ at Little Rock AFB:

CM1. To qualify as a CM1, assigned the series conversion POI and complete the following events: CPL-1510 thru CPL-1516, and NATOPS evaluation.

CM2. To qualify as CM2, any of the previously completed events from the KC-130J CC T&R will be mirrored into the KC-130J Crewmaster Syllabus with the exception of NTPS-6118.

If any of the following events from the KC-130J CC T&R have been previously completed, the proficiency date will be mirrored into the KC-130J Crewmaster Syllabus: FAM-1000 thru FAM-1109, NS-1150, NS-1151, TN-1200, AAR-1600, AAR-1601, RGR-1610, 2000 phase, AAR-3600 thru AAR-3650, RGR-3661, RGR-3651.

e. KC-130J qualified Crew Chiefs that completed their CC2 qualification, Plane Captain designation before 1 Jul 07, and who have been recommended by the squadron NATOPS Evaluator:

CM2. To qualify as a CM2, attend an ATU approved Loadmaster training course, subsequently be assigned the series conversion POI complete the following events: CPL-1510 thru CPL-1516, LRN-2162, ALZ-3502, ALZ-3503, CPL-3510 thru CPL-3513, and NATOPS evaluation.

If any of the following events from the KC-130J CC T&R have been previously completed, the proficiency date will be mirrored into the KC-130J Crewmaster Syllabus: FAM-1000 thru FAM-1109, NS-1150, NS-1151, TN-1200, AAR-1600, AAR-1601, RGR-1610, 2000 phase, AAR-3600 thru AAR-3650, RGR-3661, RGR-3651.

Weeks	Course/Level	Activity
1-8	Approved Ground Maintenance System Course	Tactical Squadron
1-8	Approved Basic Loadmaster Course	Tactical Squadron
9-21	Core Skill Introduction Training	Tactical Squadron
22-26	Core Skill Training	Tactical Squadron
27-30	Mission Skill Training	Tactical Squadron
31-35	Core Skill Plus Training	Tactical Squadron
36-52	Plane Captain Training	Tactical Squadron
53-57	Engine Run Training	Tactical Squadron
58-60	Function Check Flight Training	Tactical Squadron

3. Refresher POI

Weeks	Course/Level	Activity
1-2	Academic Ground Training	Tactical Squadron
3-8	Core Skill Introduction Training	Tactical Squadron
9-25	Core Skill Training	Tactical Squadron
26-45	Mission Skill Training	Tactical Squadron
46-86	Core Skill Plus Training	Tactical Squadron

4. Instructor POI

Weeks	Course/Level	Activity
1	Standardization Training	Tactical Squadron
2-4	Flight Training	Tactical Squadron

5. Plane Captain POI. The Plane Captain (PC) syllabus is defined by meeting the requirements set forth in NAMP 4790.2, MATMEP Level III OJT, both documented in the Advanced Skills Management system; and completion of events 6000-6011 and 6118.

506. ACADEMIC TRAINING

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

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

Course	Activity
Naval Aircrewman Candidate School (NACCS)	NAS Pensacola, FL
Survival, Evasion, Resistance, and Escape Course	NAS North Island, FL NAS Brunswick, ME
KC-130J Crewmaster Organizational Ground Maintenance Course	CNATT Little Rock AFB, AR
Weapons and Tactics Instructor Course	MAWTS-1
Night Imaging and Threat Evaluation (NITE) Lab	ATS Unit
Basic Instructor Training Course	MCAS New River, NC
Crew Resource Management Instructor	NAS Pensacola, FL or Mobile Training Team
Advanced Airlift Tactical Training Course (AATTC)	St. Joseph, MO

3. The following external training courses are recommended in addition to the syllabus:

Course	Activity
Environmental Survival Course	Regional / seasonal survival schools
Joint Airdrop Inspector Course	Ft. Lee, VA
Hazardous Materials Preparer Course	MCAS New River, NC
Forklift Operators Course	Base Motor Transport
Aircraft Weight and Balance Course	CNATT

4. The following Aircrew Training references shall be used to ensure safe and standardized training, grading criteria, and aircraft operation:

NATOPS General Flight and Operating Instructions (OPNAVINST 3710.7_)
NATOPS Flight Manuals (NFM)
KC-130 ANTTP Series
Aviation T&R Program Manual
Crew Resource Management Program Manual (OPNAVINST 1542.7_)
MAWTS-1 KC-130J Course Catalog
MAWTS-1 WTI Course Catalog
Allied Tactical Publication - 56 (ATP-56) Air to Air Refueling
FMFM 10-500 Series Air Delivery Rigging Manuals (as applicable)
NAVAIR KC/C-130 NAVAIR 01-75GAA-9s
Flight Clearances (FC) – issued by NAVAIR

507. CORE SKILL INTRODUCTION PHASE

1. General

a. The Crewmaster will be capable of basic duties to include normal and emergency procedures and CRM after successful completion of a NATOPS evaluation. CMUI's shall attend NITE Laboratory within this phase of training.

b. Stages. Familiarization, Night Systems, Tactical Navigation, Cargo and Passenger Loading, Air to Air Refueling, and Rapid Ground Refueling.

2. Familiarization (FAM)

a. Purpose. Train the CMUI to perform the basic NATOPS flight crew requirements, aircraft preflight, systems operation, system malfunctions, corrective actions, fault isolation, location and use of emergency equipment, ground and in-flight emergency procedures, and aircraft post flight procedures.

b. General. Upon completion of this phase of training the Crewmaster Under Instruction (CMUI) will possess a general understanding of squadron and aircraft operations to include emergency procedures.

c. Crew Requirements. Familiarization Instructor (FAMI), Crewmaster Instructor (CMI), Crew Chief Instructor (CCI), or Loadmaster Instructor (LMI) depending on event.

d. Academic Training. Prior to FAM-1109 complete, ground school courses consisting of basic aircraft systems descriptions, crew resource management, operational risk management, basic weight and balance, aircraft pre-flight and post-flight procedures, normal and emergency procedures, and the donning and use of all emergency equipment. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and as directed by the Aviation Training Unit.

FAM-1000	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. APU System Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the APU system.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. CBT: C1-01-01, C1-01-02, C1-01-03, C1-01-04, C1-01-05, C1-08-01, C1-26-01, C1-27-02

FAM-1001	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Engine Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the engine systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1000 and CBT: C1-05-01, C1-05-02, C1-05-03, C1-26-02, C1-27-03, C1-27-04, C1-36-01, C1-36-02, C1-36-03, C1-36-04

FAM-1002	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Propeller Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the propeller system.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1001 and CBT: C1-06-01, C1-28-15

FAM-1003	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Fuel System Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the fuel system.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1002 and CBT: C1-07-01, C1-07-02, C1-07-03, C1-07-04, C1-25-01, C1-25-02, C1-28-14, C1-36-05

FAM-1004	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Electrical and Data Bus Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the Electrical and Data Bus systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1003 and CBT: C1-09-01, C1-28-03, C1-28-04, C1-28-05, C1-28-06, C1-28-07, C1-28-10

FAM-1005	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Hydraulic Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the Hydraulic and flight control systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1004 and CBT: C1-10-01, C1-10-02, C1-10-03, C1-11-01, C1-11-02, C1-11-03, C1-12-01, C1-12-02, C1-17-01, C1-17-02, C1-17-03, C1-17-04, C1-28-11, C1-29-04, C1-38-02

FAM-1006	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Bleed Air and Ice Protection Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the bleed air and Ice Protection systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1005 and CBT: C1-14-01, C1-16-01, C1-16-02, C1-22-01, C1-28-13, C1-28-14

FAM-1007	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Air Conditioning and Pressurization Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the Air Conditioning and Pressurization systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1006 and CBT: C1-15-01, C1-15-02, C1-15-03, C1-28-12, C1-37-01

FAM-1008	3.5	*	B,SC	1 WST/KC-130J	S/A	D

Goal. Communication and Navigation Systems Familiarization.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will discuss system operation and perform normal and emergency procedures as they pertain to the Communication and Navigation systems.

Performance Standard. Satisfactory completion per NFM and associated MIMs.

Prerequisites. FAM-1007 and CBT: C1-04-01, C1-01-02, C1-04-03, C1-04-04, C1-04-05, C1-04-06, C1-04-07, C1-04-08, C1-18-01, C1-18-02, C1-18-0-3, C1-18-04, C1-18-05, C1-18-06, C1-18-07, C1-18-08, C1-18-09, C1-18-10, C1-19-01, C1-19-02, C1-19-03, C1-19-04, C1-19-05, C1-19-06, C1-19-07, C1-19-08, C1-19-09, C1-19-10, C1-24-01

FAM-1100	6.0	*	B,SC	1 KC-130J	A	D

Goal. Introduce CMUI to the aircraft, flight line, and squadron operations.

Requirement. The CMUI, under the direct supervision of FAMI, CCI, or LMI, will receive an introduction to the squadron operational environment, to include maintenance control, quality assurance, tool room, work centers, hangar area, and the flight line; introduction to the aircraft, to include general information concerning the mission and capabilities, be shown the exterior, interior, and the flight station with power applied, and receive detailed instruction on hazard areas, emergency signals, ground evacuation, and personal protective equipment (PPE).

Performance Standard. Satisfactory completion per NATOPS Flight Manual (NFM), Standard Operating Procedures (SOP), and associated Maintenance Instruction Manuals (MIMS).

Prerequisites. Squadron and Work Center Indoctrination Training to include Active, Standing, and Safety Required Reading Boards, the Squadron SOP, and FAM-1008. CBT: C1-02-06, C1-02-07, C1-02-08, C1-02-01, C1-02-02, C1-03-01, C1-03-02, C1-03-03, C1-03-04, C1-03-05, C1-30-01

FAM-1101	4.0	*	B,SC	1 KC-130J	A	D

Goal. Introduce CMUI to the external pre-flight.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will utilize the NATOPS to conduct an external pre-flight.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1100 and CBT: C1-31-01, C1-31-02, C1-31-05

FAM-1102	4.0	*	B,SC	1 FUT/KC-130J	S/A	D

Goal. Cargo compartment pre-flight.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, will utilize the NATOPS to conduct a cargo compartment preflight to include passenger and cargo loading equipment. The CMUI will also demonstrate cargo ramp and door operation.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1101 and CBT: C1-31-03

FAM-1103	2.0	*	B,SC	1 KC-130J	A	D

Goal. Top of aircraft pre-flight.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will utilize the NATOPS to conduct preflight on the top of the aircraft.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1102

FAM-1104	6.0	*	B,SC	1 CPT/WST/KC130J	S/A	D

Goal. Flight station pre-flight.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will utilize the NATOPS to conduct a flight station preflight with APU operation; demonstrating an ability to execute the expanded and abbreviated checklists. CMUI will, also, demonstrate aircraft power up, ACAWS procedures, and the interoperability of the CNI-MU, to include WEIGHT AND BAL, PERF INT, and POD CTRL pages, AMU, CNBP, HDD and aircraft lighting.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1103 and CBT: C1-13-01, C1-13-02, C1-13-03, C1-13-04, C1-23-01, C1-23-02, C1-23-03, C1-23-04, C1-23-05

FAM-1105	6.0	*	B,SC	1 FUT/KC-130J	S/A	D

Goal. Emergency equipment and procedures.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, will receive instruction on the proper donning and utilization of emergency equipment. Instruction will be given on in-flight crew door and ramp warning, rapid decompression, fire/smoke and fume elimination, ditching, bailout, flap system malfunctions, and landing gear system emergency extension and tie down.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1104 and CBT: C1-27-01, C1-28-01, C1-28-02, C1-28-08, C1-28-09, C1-29-01, C1-29-02, C1-29-03, C1-37-03, C1-38-01, C1-38-03, C1-38-04

FAM-1106	6.0	*	B,SC	1 KC-130J	A	D

Goal. Introduce the CMUI to aircraft servicing procedures.

Requirement. The CMUI, under the direct supervision of a FAMI, or CCI, will receive instruction on aircraft fueling and defueling, hydraulic servicing, and Engine/APU oil servicing, and lavatory servicing. The CMUI will also demonstrate knowledge of the fuel system venting and fuel spill procedures.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1105 and CBT: C1-32-01, C1-32-02, C1-32-03, C1-32-03, C1-32-04, C1-32-05, C1-32-06

FAM-1107	6.0	*	B,SC	1 KC-130J	A	D

Goal. Refine preflight procedures and introduce post-flight procedures.

Requirement. The CMUI, under the direct supervision of a FAMI, or CCI, will conduct an aircraft preflight and complete a Weight and Balance Form F with input into CNI-MU. Introduce aircraft post-flight.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1106 and CBT: C1-21-01, C1-21-02, C1-31-04

FAM-1108	6.0	*	B,SC	1 KC-130J	A	D

Goal. Perform preflight/post-flight procedures and prepare the CMUI for the flight phase of training.

Requirement. The CMUI, under the direct supervision of a FAMI or CCI, will conduct an aircraft preflight, complete a Weight and Balance Form F with input into CNI-MU, and post-flight inspection. The CMUI will demonstrate normal and emergency procedures, ICS/Radio procedures, checklist challenge and response calls, engine start procedures and malfunctions, walk around checks, and in-flight responsibilities.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. FAM-1107

FAM-1109	3.5	*	B,SC	1 KC-130	A	(N)

Goal. Introduce and familiarize the CMUI to in-flight procedures and Ground Maintenance System (GMS) procedures.

Requirement. The CMUI, under the direct supervision of a FAMI, or CCI, will conduct an aircraft preflight, complete a Weight and Balance Form F with input into CNI-MU, and post-flight inspection. The CMUI, acting as an observer, will follow and monitor as the instructor performs all normal and emergency procedures throughout the duration of a flight. The FAMI or CCI will introduce GMS procedures.

Performance Standard. Satisfactory completion per NFM, SOP, and associated MIMs.

Prerequisites. Ground CRM, ORM, FAM-1108, and CBT: L1-22-01

3. Night Systems (NS(H))

a. Purpose. To introduce the use of Night Vision Devices (NVD).

b. General. Crewmasters conducting NS training shall be instructed by a Night Systems Instructor (NSI) for this stage.

c. Academic Training. MAWTS-1 NVD ASP courses and NITE lab.

NS(H)-1150	3.0	*	B	1 OPTT/KC-130J	S/A	NS

Goal. To introduce the CMUI the use of NVD in the High Light Level (HLL) environment.

Requirement. The NSI will discuss NVD features and characteristics, followed by inspection/adjustment. The CMUI will be given an exterior lighting demonstration with NVDs. Emphasize aircraft lighting in normal, NVIS, covert modes, and variations that occur with different terrain/water, cultural lighting and contrast under high light conditions.

Performance Standard. Satisfactory completion per NFM, KC130 ANTTP, SOP, and OPNAVINST 3710.7_.

Prerequisite. MAWTS-1 NVD ASP ground instruction, NITE lab, FAM-1109, and CBT: L1-27-01, L1-27-02

NS(H)-1151	3.0	*	B	1 OPTT/KC-130J	S/A	NS

Goal. To introduce the CMUI the use of NVD in the Low Light Level (LLL) environment.

Requirement. Conduct all operations included in NS(H)-1150 under LLL conditions.

Performance Standard. Satisfactory completion per NFM, KC130 ANTTP, SOP, and OPNAVINST 3710.7_.

Prerequisite. NS(H)-1150.

4. Tactical Navigation (TN)

a. Purpose. Introduce the CMUI to the skills and duties of aft lookout doctrine in the tactical navigation environment.

b. General. The CMUI will be introduced to the hazards associated with the low level environment.

c. Crew Requirements. FAMI, CCI, or LMI.

d. Academic Training. Utilize academic courseware as outlined in the appropriate chapter of the MAWTS-1 KC-130J Course Catalog.

TN-1200	2.0	*	B	1 OPTT/KC-130J	S/A	D

Goal. Introduce the duties of an aft lookout observer during a day tactical navigation mission.

Requirement. The CMUI will perform the duties of an aft lookout observer during a day tactical navigation mission, perform cargo

compartment preparation, attend crew briefing, discuss lookout doctrine, scan for threats and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion per NFM, KC130 ANTTP, SOP, and OPNAVINST 3710.7 .

Prerequisite. FAM-1109 and CBT: C1-40-01, C1-40-02, C1-40-03, C1-40-04, C1-40-05, C1-40-06

5. Cargo and Passenger Loading (CPL)

a. Purpose. Refresh the CMUI in cargo and passenger loading. A load simulator is the preferred training device for this stage. A KC-130J aircraft may be used as a substitute. At the end of this phase of instruction the CMUI will be familiar with cargo/passenger loading techniques, such as:

(1) Preflight and configure an aircraft per mission requirements for flights involving passengers and/or cargo.

(2) Determine available seating and/or cargo space for load planning purposes.

(3) Utilize all KC-130 loading aids conforming to the limitations, installations, and usage of each per NAVAIR 01-75GAA-9.

(4) Safely load and off-load cargo per NAVAIR 01-75GAA-9.

(5) Compute weight and balance for a simulated flight transporting a passenger/cargo payload.

(6) Hazardous Cargo considerations will be discussed throughout this stage with emphasis on compatibility and cargo jettison.

(7) Postflight cargo compartment.

b. General. The CMUI will demonstrate a general understanding of basic cargo and passenger loading.

c. Crew Requirements. CPLI or LMI.

CPL-1510	4.0	*	B,SC	1 FUT/KC-130J	S/A	(N)

Goal. Discuss and demonstrate loading passengers and baggage.

Requirement. Discuss and demonstrate aircraft configuration for a flight transporting the maximum load allowable with passengers and baggage, passenger brief and accurate passenger manifesting. The CMUI will demonstrate the installation of centerline & sidewall seats, seat spacing configurations, as well as aeromedical considerations. The CMUI will prepare a Form F. Tanker frame considerations will be discussed.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, ANTTP, SOP, and OPNAVINST 3710.7_.

Prerequisite. CBT: L1-03-05, L1-23-01, L1-23-02

CPL-1511 4.0 * B,SC 1 FUT/KC-130J S/A (N)

Goal. Discuss and demonstrate procedures for rolling stock cargo.

Requirement. Discuss and demonstrate aircraft configuration for a flight transporting rolling stock, winching procedures, limitations, and loading & tie down procedures. The CMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly discussed.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, SOP, and OPNAVINST 3710.7_.

External Syllabus Support. MWSS Support.

Prerequisite. CBT: L1-24-01, L1-24-02, L1-24-03, L1-25-01

CPL-1512 4.0 * B,SC 1 FUT/KC-130J S/A (N)

Goal. Perform loading procedures for rolling stock cargo.

Requirement. Perform aircraft configuration for a flight transporting rolling stock, winching procedures, limitations, and loading & tie down procedures. The CMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the CMUI.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, SOP, and OPNAVINST 3710.7_.

External Syllabus Support. MWSS Support.

Prerequisite. CPL-1511 and CBT: L1-24-04

CPL-1513 4.0 * B,SC 1 FUT/KC-130J S/A (N)

Goal. Discuss and demonstrate palletized cargo loading procedures.

Requirement. Discuss and demonstrate aircraft configurations for a flight transporting palletized cargo. Discuss tanker considerations, demonstrate preflight and postflight & operation of the dual rail system. A forklift should be used as the primary loading vehicle. The CMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the CMUI.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, SOP, and OPNAVINST 3710.7_.

External Syllabus Support. MWSS Support.

CPL-1514 4.0 * B,SC 1 FUT/KC-130J S/A (N)

Goal. Perform palletized cargo loading procedures.

Requirement. Perform aircraft configurations for a flight transporting palletized cargo. Discuss tanker considerations, demonstrate preflight and postflight & operation of the dual rail system. A forklift should be used as the primary loading vehicle. The CMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the CMUI.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, SOP, and OPNAVINST 3710.7_.

External Syllabus Support. MWSS Support.

Prerequisite. CPL-1513.

CPL-1515	4.0	*	B,SC	1 FUT/KC-130J	S/A	(N)

Goal. Perform loading procedures for passengers and cargo.

Requirement. Perform aircraft configurations for a flight transporting both passengers with rolling stock and/or palletized cargo. Explain tanker considerations, winching procedures, limitations, and loading & tie down procedures. Perform preflight and postflight & operation of the dual rail system. A forklift should be used as the primary loading vehicle for palletized cargo. The CMUI will prepare a Form F. In-flight cargo jettison procedures will be thoroughly explained by the CMUI.

Performance Standard. Satisfactory completion per NFM, NAVAIR 01-75GAA-9, SOP, and OPNAVINST 3710.7_.

External Syllabus Support. MWSS Support.

Prerequisite. CPL-1510, CPL-1512, CPL-1514.

6. Air-to-Air Refueling (AAR)

a. Purpose. Familiarize Crewmasters with basic air to air refueling procedures and terminology.

b. General. Train the CMUI to perform the duties of an in-flight refueling observer. At the end of this phase of training the CMUI will be able to:

(1) Preflight the aircraft per specific mission requirements.

(2) Compute and file an accurate weight and balance form for the aircraft.

(3) Perform duties as an in-flight refueling observer during hose operation, informing the Aircraft Commander of the status of the refueling system and receiver aircraft.

(4) Correctly perform all related emergency procedures.

c. Crew Requirements. FAMI, CCI, or LMI.

d. Academic Training. The CMUI shall be familiar with the NFM, ANTTP, ATP-56, associated MAWTS-1 courseware that relates to the Air to Air refueling environment, and CBT's.

AAR-1600	2.0	*	B	1 OPPT/KC-130J	S/A	D

Goal. Introduce and review the duties of an in-flight refueling observer during a day Fixed-Wing or Tilt Rotor AAR mission.

Requirement. The CMUI will perform refueling observer duties during a day AAR mission. The observer should respond to all ICS and radio transmissions during the entire evolution. The CMUI will demonstrate a thorough understanding of all air to air refueling terminology and the use of EMCON procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, ANTTP, and ATP-56B.

Prerequisite. FAM-1109 and CBT: C1-41-01, C1-41-02, C1-41-03, C1-41-04, C1-41-05, C1-41-06

External Syllabus Support. Fixed Wing or Tilt Rotor receiver.

AAR-1601	2.0	*	B	1 OPPT/KC-130J	S/A	D

Goal. Introduce and review the duties of an in-flight refueling observer during a day helicopter air to air refueling mission.

Requirement. The CMUI will perform refueling observer duties during a day air to air refueling mission. The observer should respond to all ICS and radio transmissions during the entire evolution. The CMUI will demonstrate a thorough understanding of all air to air refueling terminology and the use of EMCON procedures.

Performance Standard. Satisfactory completion of procedures per the NFM, ANTTP, and ATP-56B.

Prerequisite. FAM-1109 and CBT: C1-45-01, C1-45-02

External Syllabus Support. Receiver.

7. Rapid Ground Refueling (RGR)

a. Purpose. Introduce CMUI to RGR operations.

b. Academic Training. Use academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog.

RGR-1610	2.0	*	B,SC	1 KC-130J	A	D

Goal. Introduce and review basic RGR equipment, setup, and operations.

Requirement. The CMUI, under the direct supervision of a Refueling Supervisor (RS) or WTI, will be given detailed instruction in RGR equipment, setup, and operation. Flight time and actual receivers not required.

Performance Standard. Satisfactory completion of procedures per the ANTTP.

Prerequisite. CBT: L1-31-01, L1-31-03

508. CORE SKILL PHASE

1. General

a. Upon completion of this phase of training, the Crewmaster will be qualified in Core Skills. These skills include Night Systems High(NS(H)), Long Range Navigation (LRN), Tactical Navigation (TN), day Low Altitude Tactics (LAT), and ground based Threat Reaction (TR).

b. Stages. Night Systems, Long Range Navigation, Tactical Navigation, Low Altitude Tactics, Threat Reaction.

2. Night Systems

a. Purpose. To qualify and maintain proficiency utilizing night vision devices.

b. General. Upon initial completion of this event, ensure a NSQ designation is completed.

c. Crew Requirements. Initial event conducted with a NSI.

d. Academic Training. MAWTS-1 NVD ASP courses and NITE lab (includes Night Vision Systems, NS Human Factors and Night Environment ASPs).

NS(H)-2150	2.0	365	B,SC,R	1 KC-130J	A/S	NS

Goal. To qualify or maintain proficiency in NS operations.

Requirement. The CMUI will demonstrate NVD features and characteristics, followed by inspection/adjustment. Emphasize aircraft lighting in normal, NVIS, covert modes, and variations that occur with different terrain/water, cultural lighting and contrast under high or low light conditions.

Performance Standard. Satisfactory completion per Fixed Wing NVD Manual, NFM, ANTTP, and OPNAVINST 3710.7_.

Prerequisite. NS(H)-1151 and 10 hours of NVD time (5 shall be in low-light conditions).

3. Long Range Navigation (LRN)

a. Purpose. Train the Crewmaster in requirements for OCONUS operations.

b. General. This stage should have, at least, one mission that remains overnight outside the continental United States and requires clearing customs in a foreign country.

c. Academic Training. CMUI will receive instruction in the use of the Foreign Clearance Guide (FCG), Flight Information Handbook (FIH), and International Civil Aviation Organization (ICAO) procedures.

LRN-2162	6.0	730	B,SC,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or maintain proficiency for long range navigation.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will perform all duties as a Crewmaster for LRN operations. The CMUI will demonstrate a thorough understanding of deployed GMS/PMA capabilities, ability to coordinate ground support and logistics as they pertain to maintenance considerations, overwater aircraft preflight, normal and alternate fuel management procedures, emergency equipment, and customs and agriculture planning.

Performance Standard. Per the NFM and pertinent ICAO publications.

Prerequisite. CBT: C1-37-02, C2-03-01, C2-03-02, C2-03-03, C2-03-04, C2-03-04, C6-02-01, C1-46-01, C1-46-02, C1-46-03

4. Tactical Navigation (TN)

a. Purpose. To qualify or maintain proficiency for the Low Level qualified Crewmaster in the tasks and requirements associated with low level flights.

b. Crew Requirements. FAMI, PCI, CCI, or LMI depending on event.

c. Academic Training. Review NATOPS Flight Manual, ANTTP, CBT's and MAWTS-1 ASP Low Level Navigation Courseware.

TN-2201	2.0	365	B	1 KC-130J	A/S	D

Goal. Qualify or maintain proficiency in TN aft lookout duties.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, will perform the duties of an aft lookout during a day TN mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion of the procedures per the NFM and ANTTP.

Prerequisite. TN-1200 CBT: C2-04-01, C2-04-02, C2-05-01, C2-05-02

TN-2202	2.0	365	B,SC,R	1 WST/1 KC-130J	S/A	(N)

Goal. Qualify or maintain proficiency in TN ACS duties.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will perform duties at the ACS during a day TN mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats and terrain clearance, crew coordination and conduct combat entry/exit checklists.

Performance Standard. Satisfactory completion of the procedures per the NFM and ANTTP.

Prerequisite. TN-1200, (NS(H)-2150)

TN-2250	2.0	365	B,R	1 KC-130J	A/S	NS

Goal. Qualify or maintain proficiency in TN aft lookout duties using NVDs.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, will perform the duties of an aft lookout during a TN mission using NVDs. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threat, crew coordination and combat entry/exit checklists.

Performance Standard. Satisfactory completion of the procedures per the NFM and ANTTP standards.

Prerequisite. MAWTS-1 approved ground course, NS(H)-2150, TN-2201.

5. Low Altitude Tactics (LAT)

a. Purpose. To introduce, qualify, or to maintain proficiency for the LAT Crewmaster in the tasks and requirements associated with flying in the LAT environment.

b. General. This stage of instruction shall be taught locally per the MAWTS-1 ASP, or in conjunction with AATTC.

c. Crew Requirements. PCI, WTI, CCI, or LMI depending on event.

d. Academic Training. MAWTS-1 ASP courseware for LAT and review ANTTP.

LAT-2261	2.0	365	B,R	1 KC-130J	A	D

Goal. Qualify or maintain proficiency in the duties as an aft lookout during the low altitude tactics mission.

Requirement. The CMUI, under the direct supervision of a WTI, CCI, or LMI, will perform the duties of an aft lookout during a LAT mission. Conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination, and perform combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. TN-2201.

External Syllabus Support. LAT approved course.

LAT-2262	2.0	365	B,SC,R	1 WST/1 KC-130J	S/A	(N)

Goal. Qualify or maintain proficiency in duties at the ACS during a low altitude tactics mission.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will perform duties at the ACS during a low altitude tactics mission. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination and conducting the combat entry/exit checklists.

Performance Standard. Per the NFM and KC-130 TACMAN.

Prerequisite. TN-2202, (NS(H)-2150), LAT-2261

External Syllabus Support. Simulator or LAT approved course.

6. Threat Reaction (TR)

a. Purpose. Introduce, qualify, or maintain proficiency in the use of defensive maneuvering coordinated with Aircraft Survivability Equipment (ASE) suite against surface-to-air threat systems.

b. General

(1) Aircraft must have fully operational ASE suite.

(2) Appropriate decoy flares must be loaded prior to flight.

(3) Threat emitters should be available.

c. Crew Requirements. PCI, WTI, CCI, or LMI depending on event.

d. Academic Training. The Crewmaster shall review pertinent chapters in the ANTTP, receive the appropriate MAWTS-1 ASP's, and CBT's.

TR-2400	2.0	365	B,R	1 WST/KC-130J	S/A	(N)

Goal. Introduce, qualify, or maintain proficiency in the aft lookout duties as they pertain to surface to air threats.

Requirement. The CMUI, under the direct supervision of a WTI, CCI, or LMI, will demonstrate the use of the ASE in combination with tactical maneuvering to defeat a ground-based threat. Preflight of ASE will be conducted.

Performance Standard. Satisfactory execution of procedures per the MAWTS-1 ASP, NFM, and ANTTP.

Prerequisite. (NS(H)-2150), CBT: C1-20-01, C1-40-06, C2-06-01, C2-06-02, C2-06-03, C2-06-04, C2-06-05, C2-06-06, C2-07-01

Ordnance. 120 Flares.

External Syllabus Support. ASE range.

TR-2401	3.0	365	B,SC,R	1 WST/KC-130J	S/A	(N)

Goal. Introduce, qualify or maintain proficiency for the CMUI in duties at the ACS during a flight utilizing ASE in a ground threat environment.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will demonstrate the use of the ASE suite in combination with appropriate tactical maneuvering to defeat threat weapons

systems. Demonstrate an understanding of the tactical employment of installed ASE equipment in all modes of operation. The CMUI should be exposed to a variety of threat situations of increasing intensity and instructed on the best tactical means assuring the survival of the aircraft and the subsequent accomplishment of the mission. Emphasis will be placed on lookout doctrine, scanning for ground/air threats and terrain clearance, crew coordination, Combat Entry/Exit Checklists, and systems familiarity. Emphasis shall also include system operation and fault isolation in the threat environment. This event may include escorts.

Performance Standard. Satisfactory execution of procedures per the MAWTS-1 ASP, NFM, and ANTTP.

Prerequisite. TR-2400, (NS-2150), MAWTS-1 approved ASP ground course.

Ordnance. 240 MJU-8 Training Flares, 300 RR-129/RR-144 Chaff.

External Syllabus Support. Scheduled appropriate counter-measures range and EW range or threat emitters.

509. MISSION SKILL PHASE

1. General

a. Upon completion of this phase of training, the Crewmaster will be qualified in Mission Skills. These skills include Assault Landing Zone (ALZ), Cargo and Passenger Loading (CPL), Air-to-Air Refueling (AAR), Rapid Ground Refueling (RGR), and Air Delivery (AD).

b. Stages. Assault Landing Zone, Cargo and Passenger Loading, Air to Air Refueling, Rapid Ground Refueling, and Air Delivery.

2. Assault Landing Zone (ALZ)

a. Purpose. Introduce day and night ALZ operations, culminating in aircraft preparation, combat offload, and the introduction of the use of NVDs in the ALZ environment.

b. Crew Requirement. CPLI, PCI, CCI, or LMI depending on event.

c. Academic Training. Review ALZ operations in ANTTP. Review MAWTS-1 ASP ALZ courseware.

ALZ-3502	1.0	365	B,SC,R	1 KC-130	A	(N)

Goal. Qualify or maintain proficiency in Combat Offload (COL).

Requirement. The CMUI, under the direct supervision of a CPLI or LMI, will demonstrate the ability to prepare the cargo compartment for ALZ operations, conduct a COL, and direct the pilot in reverse taxi procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150), CPL-3512, CBT: C1-42-01, C1-42-02, C2-09-01, C2-09-02, C2-09-03

External Syllabus Support. Material Handling Equipment (MHE).

ALZ-3503 1.0 365 B,SC 1 KC-130 A (N)

Goal. Qualify or maintain proficiency in ALZ Operations.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will demonstrate procedures for preparation of the cargo compartment and aircraft exterior for unimproved ALZ operations.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150).

External Syllabus Support. USMC MMT, MWSS, EAF or USAF Combat Control Team with appropriate expeditionary airfield ALZ Marking/ Lighting and ARFF Support.

3. Cargo and Passenger Loading (CPL)

a. Purpose. Continue the Crewmaster's CPL instruction.

b. General

(1) Preflight and configure an aircraft per mission requirements for flights involving passengers and/or cargo.

(2) Determine available seating and/or cargo space for load planning purposes.

(3) Utilize all KC-130 loading aids conforming to the limitations, installations, and usage of each per NAVAIR 01-75GAA-9.

(4) Safely load and off-load cargo per NAVAIR 01-75GAA-9.

(5) Compute weight and balance for a simulated flight transporting a passenger/cargo payload.

(6) Postflight cargo compartment.

c. Crew Requirements. CPLI or LMI.

CPL-3510 3.0 365 B,SC,R 1 KC-130J/FUT A/S (N)

Goal. Qualify or maintain proficiency in loading passengers with bags.

Requirement. The Crewmaster will configure an aircraft for a flight transporting passengers and baggage.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_.

Prerequisite. CPL-1515, (NS(H)-2150), CBT: L4-02-01

CPL-3511 3.0 365 B,SC,R 1 KC-130J/FUT A/S (N)

Goal. Qualify or maintain proficiency in loading rolling stock.

Requirement. The Crewmaster will configure an aircraft for a flight transporting rolling stock.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_.

Prerequisite. CPL-1512, (NS(H)-2150).

CPL-3512 3.0 365 B,SC,R 1 KC-130J/FUT A/S (N)

Goal. Qualify or maintain proficiency in loading palletized cargo.

Requirement. The Crewmaster will configure and load an aircraft for a flight transporting palletized cargo. The Crewmaster shall utilize the cargo handling system to include preflight.

Performance Standard. Per the NFM, and NAVAIR 01-75GAA-9 and OPNAVINST 3710.7_.

Prerequisite. CPL-1514, (NS(H)-2150).

CPL-3513 3.0 365 B,SC,R 1 KC-130J/FUT A/S (N)

Goal. Qualify or maintain proficiency in loading hazardous cargo.

Requirement. The Crewmaster will configure an aircraft for a flight transporting hazardous cargo IAW MCO P4030.19_.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and OPNAVINST 3710.7_, and MCO P4030.19_.

Prerequisite. CPL-1515, (NS(H)-2150)

4. Air-to-Air Refueling (AAR)

a. Purpose. Continue instruction in AAR observer duties, or to maintain proficiency during day and night tactical refueling missions.

b. General. Emission control procedures may be used for any of the events in this stage.

c. Crew Requirement. FAMI, PCI, CCI, or LMI depending on event.

d. Academic Training. Review NFM, ATP-56B, ANTTP, and MAWTS-1 AAR ASP.

AAR-3600 2.0 365 B 1 KC-130J/OPTT A/S D

Goal. Qualify or maintain proficiency in AAR observer duties for Fixed Wing (FW) or Tilt Rotor (TR) AAR.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, shall perform AAR observer duties during FW or TR refueling mission.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1600, CBT: C4-03-01, C4-03-02

External Syllabus Support. Receiver aircraft.

AAR-3601	2.0	365	B	1 KC-130J/OPTT	A/S		D

Goal. Qualify or maintain proficiency in AAR observer duties for Helicopter AAR.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, shall perform AAR observer duties during RW refueling mission.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1601

External Syllabus Support. Receiver aircraft.

AAR-3610	4.0	*	B,SC	1 WST/KC-130J	S/A		(N)

Goal. Introduce ACS FW/TR AAR procedures.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will be introduced to normal operations of the FW/TR AAR system from the ACS. Emphasize normal procedures, alternate procedures, system limitations and emergency procedures as they pertain to AAR. The CMUI will keep accurate records of the refueling evolution.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1600, AAR-1601, CBT: C2-08-01, C2-08-02, C2-08-03,C2-08-04

External Syllabus Support. Receiver aircraft.

AAR-3611	4.0	*	B,SC	1 WST/KC-130J	S/A		(N)

Goal. Introduce ACS HAAR procedures.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will be introduced to normal operations of the HAAR system from the ACS. Emphasize normal procedures, alternate procedures, system limitations and emergency procedures as they pertain to AAR. The CMUI will keep accurate records of the refueling evolution.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-1600, AAR-1601, AAR-3610.

External Syllabus Support. Receiver aircraft.

AAR-3612	4.0	180	B,SC,R	1 KC-130J/WST	A/S	(N)

Goal. Qualify and maintain proficiency in ACS AAR procedures.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will demonstrate the ability to perform normal operations of the aerial refueling system during AAR operations. Emphasize normal procedures, alternate procedures, system operation, system limitations and emergency procedures as pertaining to AAR mission and the ability to operate, diagnose and isolate discrepancies during AAR missions. The CMUI will keep accurate records of the refueling evolution. The initial even will be conducted in aircraft subsequent events may be conducted in the simulator.

Performance Standard. Per the NFM, ATP-56B, and ANTTP.

Prerequisite. AAR-3611 and SYS-6011

External Syllabus Support. Receiver aircraft.

AAR-3650	2.0	365	B,R	1 KC-130J/OPTT	A/S	NS

Goal. Qualify or maintain proficiency in AAR observer duties using NVDs during AAR.

Requirement. The CMUI, under the direct supervision of a FAMI, CCI, or LMI, shall perform AAR observer duties using NVDs.

Performance Standard. Satisfactory completion of the procedures per the NFM, ATP-56B, and ANTTP.

Prerequisite. NS-2150, AAR-3600, AAR-3601

External Syllabus Support. Receiver aircraft.

5. Rapid Ground Refueling (RGR)

a. Purpose. Qualify or maintain proficiency in RGR missions.

b. Academic Training. Review ANTTP RGR procedures and MAWTS-1 RGR ASP.

RGR-3661	2.0	365	B	1 KC-130J	A	D

Goal. Qualify or maintain currency in RGR point man duties during day RGR operations.

Requirement. The CMUI, under the direct supervision of a RS, will be assist the RS in the conduct of a day RGR, minimum 2-point setup, including the actual transfer of fuel to aircraft or Tactical Ground Vehicles (TGV). The CMUI will man and perform all duties associated with a refueling point during a RGR mission.

Performance Standard. Satisfactorily complete the procedures per NFM and ANTTP.

Prerequisite. RGR-1610 and CBT: L1-31-02

External Syllabus Support. CFR; aircraft or TGV.

RGR-3651	2.0	365	B,R	1 KC-130J	A	NS

Goal. Qualify or maintain currency in RGR point man duties during night RGR operations.

Requirement. The CMUI, under the direct supervision of a RS, will assist the RS in the conduct of a NS RGR, minimum 2-point setup, including the actual transfer of fuel to aircraft or Tactical Ground Vehicles (TGV). The Crewmaster will man and perform all point man duties associated with a RGR mission using NVDs. A qualified NS RS may provide initial instruction for this event.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. NS-2150, RGR-3661

External Syllabus Support. CFR; aircraft or TGV.

6. Air Delivery (AD)

a. Purpose. Qualify or maintain proficiency in Container Delivery System (CDS), Heavy Equipment (HE), and Personnel (PERS) AD missions.

b. Crew requirement. ADI or LMI depending on event.

c. Academic Training. Review the NATOPS Flight Manual, NAVAIR 01-75GAA-9, ANTTP, MAWTS-1 AD ASP.

AD-3701	4.0	180	B,SC,R	1 KC-130J/WST	A/S	(N)

Goal. Introduce, qualify or maintain proficiency in AD at the ACS.

Requirement. The CMUI, under the direct supervision of a PCI or CCI, will be introduced to airdrop checklists and duties at the ACS.

Performance Standard. Satisfactory completion of the procedures per the NFM, and ANTTP.

Prerequisite. (NS(H)-2150) and CBT: L1-32-02

External syllabus. AD platoon, MHE, and DZ control.

AD-3702	4.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Qualify or maintain proficiency in CDS AD.

Requirement. The CMUI, under the direct supervision of an ADI or LMI, will conduct a CDS AD. The CMUI will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3512, (NS(H)-2150), and CBT: L1-32-01, L1-32-03, L2-06-01, L2-06-02

External syllabus. AD platoon, MHE, and DZ control.

AD-3703	4.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Qualify or maintain proficiency in HE AD.

Requirement. The CMUI, under the direct supervision of an ADI or LMI, will conduct a HE AD. The CMUI will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3512, (NS(H)-2150), CBT: L2-07-01, L2-07-02

External Syllabus Support. AD platoon, MHE, DZ control.

AD-3704	4.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Introduce and qualify, or maintain proficiency in static line PERS AD.

Requirement. The CMUI, under the direct supervision of an ADI or LMI, will perform a static PERS AD. The CMUI will perform preflight, rigging, briefing, loading, execution, and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. Applicable MAWTS-1 ASP's, CPL-3510, (NS(H)-2150), CBT: L1-32-04, L1-32-05

External Syllabus Support. Parachutists, DZ control, and Flight Physiologist (as required).

510. CORE PLUS SKILL PHASE

1. General

a. Upon completion of this phase of training, the Crewmaster will be qualified in Core Plus Skills. These skills include Night System Low (NS(L)), Defensive Tactics (DT), Air Delivery (AD), and Battlefield Illumination (BI). When the Crewmaster has attained the RQD-6118 and subsequent initial events have been successfully completed the Crewmaster is qualified in that event.

b. Stages. Night Systems Low, Defensive Tactics, Air Delivery, and Battlefield Illumination.

2. Night System Low (NS(L))

a. Purpose. Qualify the Crewmaster, or to maintain proficiency in NS(L) in a ground threat environment.

b. General. This stage of instruction shall be taught locally per the MAWTS-1 ASP or in conjunction with AATTC.

c. Academic Training. Complete MAWTS-1 ASP courseware for LAT and review ANTTP.

NS(L)-4251	2.0	365	B,SC,R	1 KC-130J	A	NS

Goal. Introduce, qualify, or maintain proficiency, in the duties as an aft lookout during a NS LAT mission.

Requirement. The CMUI, under the direct supervision of a WTI, will perform the duties of an aft lookout during a NS LAT mission. The CMUI will conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for threats, crew coordination, and combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP

Prerequisite. LAT-2261, TN-2250.

External Syllabus Support. LAT approved course.

3. Defensive Tactics (DT)

a. Purpose. Introduce and qualify the Crewmaster or maintain proficiency in DT during air-to-air engagements by combining maneuvering and use of the ASE suite.

b. General. The following equipment should be used to complete the event.

(1) Fully operational ASE suite.

(2) Appropriate chaff and decoy flares.

(3) Rear Vision Device (RVD).

c. Academic Training. Prior to DT stage training the Crewmaster shall receive:

(1) MAWTS-1 ASP course on KC-130 Specific Threat Counter Tactics.

(2) MAWTS-1 ASP course on KC-130J ASE equipment.

DT-4411	2.0	365	B,R	1 KC-130J	A	D

Goal. Introduce, qualify, or maintain proficiency in the duties of an aft or RVD lookout, during a DT mission.

Requirement. The CMUI, under the direct supervision of a WTI, will perform the duties of an aft or RVD lookout during a DT flight. The CMUI will conduct cargo compartment preparation, crew briefing, lookout doctrine, scan for airborne threats,

threat maneuvering calls and terrain clearance, crew coordination and combat entry/exit checklists.

Performance Standard. Per the NFM and ANTTP.

Prerequisite. LAT-2261 and CBT: C4-01-01, C4-01-02

Ordnance. Appropriate chaff and decoy flare load.

External syllabus. Appropriate aggressor aircraft.

4. Air Delivery (AD)

a. Purpose. Introduce, qualify, or maintain proficiency in Crewmaster duties during an Air Delivery mission.

b. Academic Training. Review the NATOPS Flight Manual, NAVAIR 01-75GAA-9, ANTTP, MAWTS-1 Air Delivery course ware.

AD-4700	2.0	180	B,SC,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or to maintain proficiency in personnel and cargo combination airdrop.

Requirement. The CMUI, under the direct supervision of an ADI or LMI, will perform the duties as primary Crewmaster during a combination airdrop. The CMUI will perform preflight, rigging, briefing, loading, and execution and emergency procedures.

Performance Standard. Satisfactory completion of the procedures per the NFM, NAVAIR 01-75GAA-9, ANTTP.

Prerequisite. (NS(H)-2150), AD-3702, AD-3704

External support. Parachutists, AD Platoon, MHE, DZ control, and Flight Physiologist (as required).

AD-4701	2.0	365	B,SC,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or to maintain proficiency in airdrop of military free fall (MFF)/high altitude airdrop personnel.

Requirement. The CMUI, under the direct supervision of an ADI or LMI, will conduct MFF. The CMUI will preflight, rig, brief, load, and execute a free fall airdrop. The initial event shall utilize the oxygen system.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. (NS(H)-2150) and CBT: L2-08-01, L2-08-02

External Support. MFF parachutists, DZ control, and Flight Physiologist (as required).

5. Battlefield Illumination (BI)

a. Purpose. Introduce, qualify, or maintain proficiency in flare delivery procedures.

b. Academic Training. MAWTS-1 Battlefield Illumination ASP.

BI-4710	3.0	365	B,R	1 KC-130J	A	(N)

Goal. Introduce, qualify, or maintain proficiency in battlefield illumination as a Team Member/Team Leader.

Requirement. The CMUI, under the direct supervision of a QASO, will demonstrate the loading and operation of the flare dispenser. The CMUI will adhere to crew coordination, safety precautions and emergency procedures.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and ANTTP.

Prerequisite. (NS(H)-2150) and CBT: L4-04-01

Ordnance. LUU-2 and/or LUU-19 Series APFs are required for initial event.

511. INSTRUCTOR TRAINING PHASE

1. Instructor Stage Training

a. Purpose. Introduce basic instructor techniques and standardization, preparing the IUT for follow on qualification as a Familiarization Instructor (FAMI), Cargo Passenger Loading Instructor (CPLI), Airdrop Instructor (ADI), and Plane Captain Instructor (PCI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. CBT's.

IUT-5100	3.0	*		1 KC-130J	A	(N)

Goal. Initial Instructor training.

Requirement. The IUT will demonstrate the ability to instruct a CMUI on the KC130J. The IUT will demonstrate the ability to correct common CMUI errors. The IUT will apply standardized instructional techniques and be instructed by a NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. NTPS-6111, CBT: C5-01-01, C5-01-02, C5-01-03, C5-01-04, C1-01-05, C5-03-01, C5-03-02, C5-03-03, and the CM IUT should complete BITC before the completion of this POI.

IUT-5101	3.0	*	R	1 KC-130J	A	(N)

Goal. Continued Crewmaster Instructor training.

Requirement. The IUT will demonstrate the ability to instruct a CMUI on the KC130J. The IUT will demonstrate the ability to correct common CMUI errors. The IUT will apply standardized instructional techniques and be instructed by a NI/ANI.

Performance Standard. IAW NATOPS and applicable publications and CBT: C5-02-01, C5-02-02, C5-02-03, C5-02-04, C5-02-05

Prerequisite. IUT-5100

2. Cargo and Passenger Loading Stage Instructor Training

a. Purpose. Qualify the IUT as a Cargo Passenger Loading Instructor (CPLI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. CBT's.

CPLI-5102	3.0	*	R	E	1 KC-130J		A	(N)

Goal. Cargo Passenger Loading Instructor.

Requirement. The CM IUT will demonstrate the ability to instruct a CMUI on CPL and COL events. The IUT will demonstrate the ability to correct common CMUI errors. The CM IUT will apply standardized instructional techniques and be evaluated by a CC NI/ANI or LM NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. IUT-5101, CPL-3510 through CPL-3513, and ALZ-3502.

3. Familiarization Stage Instructor Training

a. Purpose. Qualify the IUT as a Familiarization Instructor (FAMI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. CBT's.

FAMI-5103	3.0	*	R	E	1 KC-130J		A	(N)

Goal. Familiarization Instructor.

Requirement. The CM IUT will demonstrate the ability to instruct a CMUI on Familiarization events, AR observer events, TN events. The IUT will demonstrate the ability to correct common CMUI errors. The CM IUT will apply standardized instructional techniques and be evaluated by a CC NI/ANI or LM NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. NS-2150, TN-2201, TN-2250, AAR-3600, AAR-3601 IUT-5101

4. Plane Captain Stage Instructor Training

a. Purpose. Qualify the IUT as a Plane Captain Instructor (PCI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. CBT's.

PCI-5104	3.0	*	R	E	1 KC-130J	A	(N)

Goal. Plane Captain Instructor.

Requirement. The CM IUT will demonstrate the ability to instruct a CMUI on Plane Captain systems, and ACS events. The IUT will demonstrate the ability to correct common CMUI errors. The CM IUT will apply standardized instructional techniques and be evaluated by a CC NI/ANI or LM NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. NS-2150, LRN-2162, TN-2202, LAT-2262, TR-2401, ALZ-3503, AAR-3610 thru AAR-3612, AD-3701 IUT-5101, NTPS-6118.

5. Air Delivery Stage Instructor Training

a. Purpose. Qualify the IUT as an Airdrop Instructor (ADI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. CBT's.

ADI-5700	3.0	*	R	E	1 KC-130J	A	(N)

Goal. Airdrop Instructor.

Requirement. The CM IUT will demonstrate the ability to instruct a CMUI on AD's, and correct common CMUI errors. The CM IUT will apply standardized instructional techniques and be evaluated by a CM NI/ANI or LM NI/ANI.

Performance Standard. IAW NATOPS and applicable publications.

Prerequisite. NS-2150, AD-3702 thru AD-3704, AD-4700, AD-4701, IUT-5101, NTPS-6118.

6. NATOPS Instructor Training

a. Purpose. Qualify as a NATOPS Instructor/Assistant NATOPS Instructor (NI/ANI).

b. General. Standardization will be emphasized throughout Instructor training.

c. Academic Training. Use academic courseware as outlined in the NFM and OPNAV 3710.7_.

NI-5140 2.0 * E 1 KC-130J A (N)

Goal. Train and evaluate the Assistant NATOPS Instructor.

Requirement. The CM will demonstrate the ability to evaluate a student CM in all facets of the duties of a CM on the KC-130J. The NATOPS Instructor or NATOPS Evaluator will conduct a comprehensive evaluation of Assistant NATOPS Instructors with emphasis on standardization and grading criteria.

Performance Standard. Per the NFM and OPNAVINST 3710.7_.

Prerequisite. CMI, PCI-5104, and 1000 flight hours in the KC-130T/J aircraft.

NI-5141 2.0 * R E 1 KC-130J A (N)

Goal. ANI/NI Evaluation flight.

Requirement. NI/ANI will evaluate a Crewmaster in NATOPS procedures under supervision of a NE/NI. At the completion of this sortie, the Crewmaster may be designated by the Commanding Officer.

Performance Standard. IAW NFM and OPNAVINST 3710.7_.

Prerequisite. NI-5140.

7. Night Systems Instructor Training

a. Purpose. Qualify as a Night Systems Instructor (NSI).

b. General. Standardization will be emphasized throughout Instructor training. A MAWTS-1 Instructor shall evaluate the NS-5152 event and the workups may be conducted by squadron NSI's.

c. Academic Training. Use academic courseware as outlined in the NFM and the MAWTS-1 KC-130J Course Catalog.

NS-5150 3.0 * 1 KC-130J A NS

Goal. Begin Night Systems Instructor syllabus.

Requirement. IUT will demonstrate the ability to instruct a crewmember in NS Core Skill T&R events and correct common CMUI errors. The IUT will apply standardized instructional techniques.

Performance Standard. IAW MAWTS-1 KC-130J Course Catalog.

Prerequisite. NS(H)-2150, IUT-5102, NTPS-6118, IAW MAWTS-1 KC-130J Course Catalog,

NS-5151 3.0 * 1 KC-130J A NS

Goal. Continue Night Systems Instructor syllabus.

Requirement. IUT will demonstrate the ability to instruct a crewmember in NS Mission Skill T&R events and demonstrate the ability to correct common CMUI errors. The IUT will apply standardized instructional techniques

Performance Standard. IAW MAWTS-1 KC-130J Course Catalog.

Prerequisite. NS-5150

NS-5152	2.0	*	R	E	1	KC-130J	A	NS

Goal. NSI Evaluation.

Requirement. Per MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the NSI designation may be assigned by the squadron commanding officer.

Performance Standard. Satisfactorily execute the procedures per NFM, ANTTP, and MAWTS-1 ASP for NSI.

Prerequisite. NS-5151

External Syllabus Support. MAWTS-1 Instructor

8. Weapons and Tactics Instructor (WTI)

a. Purpose. Certify the KC-130 Crewmaster Instructor as a WTI capable of safely conducting ground and airborne instruction in the KC-130 Crewmaster syllabus as outlined in MCO 3500.19 and the MAWTS-1 WTI Course Catalog.

b. General. The KC-130 WTI syllabus is developed by MAWTS-1 and is conducted in conjunction with the WTI Course. Upon graduation, the candidate will be certified by MAWTS-1 as a WTI Crewmaster. WTI designation can only be made by the squadron commanding officer.

c. Ground Training. As published in the MAWTS-1 WTI Course Catalog.

d. Flight Training. As published in the MAWTS-1 WTI Course Catalog.

512. REQUIREMENTS, QUALIFICATIONS, DESIGNATIONS (RQD) PHASE

1. Purpose. Track NATOPS Qualifications.

2. General. "E"-coded sorties in the 6000 phase may be logged in conjunction with any sortie that completes its stage. CSP is not awarded for these 6000 sorties; however, CSP credit may be obtained by logging the appropriate training code(s) in the 2000-4000 phase syllabi. Once the flight to attain the qualification/designation is complete, a letter from the squadron commanding officer awarding the qualification/designation shall be placed in the NATOPS and APR before that qualification/designation can be used.

3. Stages. Systems Review, Academic Evaluation, Engine Run Qualification, Right Seat Taxi Observer Qualification, Functional Check Flight Qualification, and NATOPS Evaluations and designations.

4. Systems Review

a. Purpose. Review aircraft systems, systems operation, system malfunctions, corrective actions, fault isolation and in-flight fault diagnostics per current instructions.

b. General. The CCI may induce malfunctions and simulated emergencies as practical with coordination of the Pilot In Command.

c. Crew Requirement. PCI or CCI.

SYS-6000	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review APU system.

Requirement. The CM will be knowledgeable on auxiliary power unit operation, possible malfunctions, fault isolation, and corrective actions per current instruction.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. NTPS-6111 and CBT: C6-01-01, C6-01-02, C6-01-03, C6-01-04

SYS-6001	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the engine.

Requirements. Review propulsion system, to include engine theory of operation, split turbine theory, reduction gearbox assembly, associated ACAWS, and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6000

SYS-6002	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the propeller system.

Requirements. Review propeller system, to include theory of operation and limitations, associated ACAWS, and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6001

SYS-6003	4.0	*	B,SC,R	1 WST	S	(N)

Goal. Engine, Propellers, and APU SIM.

Requirement. Review the Engine, Propeller, and APU EP'S, system indications, system ACAWS, and operation of hard and soft panels.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6000, SYS-6001, and SYS-6002

SYS-6004	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft AC and DC electrical systems.

Requirement. Review the aircraft AC and DC electrical systems including the primary and secondary systems, system indicators, system warning lights, associated ACAWS, and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6003

SYS-6005	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft communications and navigation systems.

Requirement. Review the aircraft communications and navigation systems. Include radio operation and transmission. Review associated ACAWS and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6004, CBT: C2-01-01, C2-01-02, C2-01-03, C2-01-04, C2-01-05, C2-01-06, C2-01-07, C2-01-08, C2-01-09, C2-01-10, C2-02-01, C20-02-02, C2-02-03

SYS-6006	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft pressurization and oxygen systems.

Requirement. Review the aircraft pressurization and oxygen systems, associated ACAWS, and operation of hard and soft panels associated with these systems. Perform LOX servicing IAW Job Guide.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_. Service LOX IAW applicable Job Guides.

Prerequisite. SYS-6003

SYS-6007	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft bleed air systems, anti-icing and deicing systems.

Requirement. Review the aircraft bleed air systems, isolation valves, wing and empennage anti-icing, propeller anti-icing/de-icing, NESA system, associated ACAWS, and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6006

SYS-6008	4.0	*	B,SC,R	1 WST	S	(N)

Goal. Electrical, COMM/ NAV, A/C Press, and Bleed Air SIM.

Requirement. Review the aircraft electrical, to include primary and secondary AC and DC system, COMM/ NAV, Bleed Air, and Air Conditioning System. Including EP'S, system indications, system ACAWS, and operation of hard and soft panels.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6003 thru SYS-6007

SYS-6009	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review the aircraft utility, booster, and auxiliary hydraulic systems.

Requirement. Review the aircraft utility, booster, and auxiliary hydraulic systems, associated ACAWS, and operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6008

SYS-6010	4.0	*	B,SC,R	1 KC-130J	A	(N)

Goal. Review of the aircraft fuel system.

Requirement. Review the aircraft fuel system to include fuel system component locations, tank, capacities, associated ACAWS, operation of hard and soft panels associated with these systems.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6008

SYS-6011	4.0	*	B,SC,R	1 WST	S	(N)

Goal. Hydraulic and fuel SIM.

Requirement. Review the aircraft hydraulic and fuel, EP's system indications, system ACAWS, and operation of hard and soft panels.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. SYS-6009, SYS-6010

5. NATOPS Evaluation (NTPS). Purpose. To conduct an initial or annual NATOPS exam.

NTPS-6012 3.0 365 B,SC,R, E

Goal. NATOPS open book exam.

Requirement. Crewmaster will complete a NATOPS open book examination.

Performance Standard. Per NATOPS.

Prerequisite. 1000 Phase complete.

NTPS-6013 1.0 365 B,SC,R, E

Goal. NATOPS closed book exam.

Requirement. Crewmaster will complete a NATOPS closed book examination.

Performance Standard. Per NATOPS.

Prerequisite. 1000 Phase complete.

NTPS-6014 3.0 365 B,SC,R, E

Goal. NATOPS oral exam.

Requirement. Crewmaster will complete a NATOPS oral examination.

Performance Standard. Per NATOPS.

Prerequisites. 1000 Phase complete.

6. Right Seat Taxi Observer

a. Purpose. Train the Crewmaster in right seat taxi observer procedures. This stage does not require flight time, but does require the use of a KC-130J Aircraft or WST for the indicated time.

b. General. This phase of instruction shall be instructed by a Basic Instructor Pilot, CCI, or PCI.

c. Ground/Academic Training. The student will be familiar with aircraft taxi operations, squadron SOP, and the local course rules.

RSTO-6015 2.0 * B,SC 1 KC-130J/WST A/S (N)

Goal. Introduce right seat taxi observer procedures.

Requirement. Introduce right seat taxi observer procedures and emergency procedures as applicable to the copilot seat during engine start and taxi.

Performance Standard. IAW NFM, OPNAV 3710.7_, and local course rules.

Prerequisite. CM1 (NTPS-6111).

RSTO-6016 1.0 * B,SC,R 1 KC-130J A (N)

Goal. Refine right seat taxi observer procedures.

Requirement. Refine and qualify the CMUI in right seat taxi observer procedures and emergency procedures as applicable to the copilot seat during engine start and taxi.

Performance Standard. Qualified per NFM, OPNAV 3710.7_ and local course rules.

Prerequisite. RSTO-6015.

7. Engine Run Qualification

a. Purpose. Train and qualify the Crewmaster Plane Captain in Engine Run Procedures.

b. General. A Crewmaster Plane Captain must be recommended by the Aircraft Maintenance Officer prior to starting the Engine Run syllabus. An Assistant NATOPS Instructor shall train and evaluate the CMUI in engine run procedures IAW the 4790.2 NAMP.

c. Ground/Academic Training. The student shall complete the required reading and be familiar with maintenance instructions, aircraft operations, squadron SOP, and the local course rules.

ER-6017 3.0 * B,SC 1 KC-130J/WST A/S (N)

Goal. Introduce engine run procedures.

Requirement. An Assistant NATOPS Instructor will introduce engine ground runs IAW current NAVAIR Tech Pubs and Job Guide instruction. Start engine run syllabus IAW with local DSS procedures.

Performance Standard. IAW applicable MIMs, NFM, and local course rules.

Prerequisite. NTPS-6118 and CBT: C6-03-01, C6-03-02, C6-03-03, C6-03-04, C6-03-05, C6-03-06, C6-03-07, C6-03-08, C6-03-09

ER-6018 3.0 * B,SC,R,E 1 KC-130J A (N)

Goal. Evaluate CMUI on engine run procedures.

Requirement. An Assistant NATOPS Instructor will evaluate the CMUI on engine run procedures. Upon completion of ER-6017 and ER-6018 the commanding officer may designate the CM as engine run qualified via ASM Online.

Performance Standard. Qualified per MIMS, NFM, and local course rules and DSS program.

Prerequisite. ER-6017, NTPS-6118

8. Functional Check Flight (FCF)

a. Purpose. To continue instruction and maintain proficiency in FCF procedures. Perform all FCF procedures IAW NATOPS, 4790.2, and OPNAV 3710.7_.

b. General. This phase of training shall be instructed by a PCI.

c. Ground/Academic Training. The CMUI will be familiar with FCF procedures.

FCF-6105	2.0	365	B,SC	1 KC-130J	A	D

Goal. To introduce, qualify, and maintain currency for CM in partial FCF Flight Profile B, C, D, or E.

Requirement. To conduct a partial FCF coordinating and documenting all the requirements of the MIMS, NATOPS, SOP, and 4790.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. NTPS-6118 and CBT: C6-04-01, C6-04-02, C6-04-03, C6-04-04

FCF-6106	4.0	*	B,SC	1 WST/KC-130J	S/A	D

Goal. To introduce the CM to the Full Card FCF procedures.

Requirement. To conduct an “A” profile FCF engine run and flight phase inspection.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. NTPS-6118.

FCF-6107	4.0	365	B,SC,R	1 KC-130J	A	D

Goal. To qualify and maintain currency for the CM proficiency in Full Card FCF procedures.

Requirement. To conduct an “A” profile FCF engine run and flight phase inspection.

Performance Standard. Per the NFM, OPNAVINST 3710.7_, and OPNNAVINST 4790.2_.

Prerequisite. FCF-6106, NTPS-6118

9. NATOPS Evaluation (NTPS). Purpose. To conduct an initial or annual NATOPS check.

NTPS-6111	4.0	365	B,SC,R	E	1 KC-130J	A		(N)

Goal. CM1 NATOPS evaluation.

Requirement. The ANI or NATOPS Instructor/Evaluator will evaluate CM per NATOPS.

Performance Standard. Per NFM.

Prerequisite. 1000 Phase complete, 40 KC-130J flight hours.

NTPS-6118	4.0	365	B,SC,R	E	1 KC-130J	A		(N)

Goal. CM2 NATOPS evaluation.

Requirement. The ANI or NATOPS Instructor/Evaluator will evaluate the CM in their performance as a crew member and Plane Captain per NATOPS, ANTTP, SOP, and 4790.2 procedures. The initial event shall be conducted on a remain overnight (RON) flight.

Performance Standard. Per NFM.

Prerequisite. SYS-6000 thru SYS-6011, NTPS-6111, Plane Captain Syllabus, RSTO-6015, RSTO-6016, and a minimum of 400 flight hours in the KC-130.

10. Rapid Ground Refueling (RGR)

a. Purpose. Qualify or maintain proficiency as a Refueling Supervisor (RS) on RGR missions.

b. General. Upon completion of these events the Crewmaster will be designated by the commanding officer as a Refueling Supervisor.

c. Academic Training. Review ANTTP RGR procedures and MAWTS-1 RGR ASP.

RS-6662	2.0	180	B,SC		1 KC-130J	A	D

Goal. Introduce, qualify, or maintain proficiency for day RGR RS.

Requirement. The Crewmaster will plan, brief, and execute a daytime RGR, minimum 2 point setup, including an actual transfer of fuel to aircraft or TGV. This code will be instructed by a WTI.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisites. RGR-3661, completion of taxi director course and CBT: L3-01-01.

External Syllabus Support. CFR, and aircraft or TGV.

RS-6652	2.0	180	B,SC,R	1 KC-130J	A	NS

Goal. Introduce and qualify, or maintain proficiency for NS RGR RS.

Requirement. The Crewmaster will plan, brief, and execute a NS RGR, minimum 2 point setup, including an actual transfer of fuel to aircraft or TGV. This code will be instructed by a WTI.

Performance Standard. Satisfactory completion of the procedures per the NFM, ANTTP.

Prerequisite. NS-2150, RGR-3651, RS-6662.

External Syllabus Support. CFR, and aircraft or TGV.

11. Battlefield Illumination (BI)

a. Purpose. Introduce, qualify, or maintain proficiency in flare delivery procedures as the Quality Assurance Safety Observer (QASO).

b. Academic Training. MAWTS-1 Battlefield Illumination ASP.

QASO-6653	3.0	180	B,SC,R	1 KC-130J	A	N

Goal. Introduce, qualify, or maintain proficiency in Battlefield Illumination as a QASO.

Requirement. The LM will supervise the loading and operation of the flare dispenser. The LM will adhere to crew coordination and, safety precautions while performing duties of a QASO, as defined in the ANTTP. Initial instruction will be conducted by a WTI.

Performance Standard. Per the NFM, NAVAIR 01-75GAA-9, and ANTTP

Prerequisites. (NS(H)-2150), BI-4710, and CBT: L4-04-02

Ordnance. Minimum 14 LUU-2 and/or LUU-19 Series APFs are required for initial event.

External Support. Ordnance Qualified Personnel.

513. T&R SYLLABUS MATRICES

KC-130J Crewmaster											
1000 CORE SKILL INTRODUCTION											
STAGE	TRNG CODE	EVENT DESC	ACADEMIC/GRND HOURS	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI
FAMILIARIZATION (FAM)											
FAM	1000	APU	-	-	3.5	*	S/A	-	D	-	B,SC
FAM	1001	Engine Systems	-	-	3.5	*	S/A	-	D	1000	B,SC
FAM	1002	Propeller System	-	-	3.5	*	S/A	-	D	1001	B,SC
FAM	1003	Fuel Systems	-	-	3.5	*	S/A	-	D	1002	B,SC
FAM	1004	Elect & Data Bus System	-	-	3.5	*	S/A	-	D	1003	B,SC
FAM	1005	Hydraulic System	-	-	3.5	*	S/A	-	D	1004	B,SC
FAM	1006	Bleed Air & Ice Prot System	-	-	3.5	*	S/A	-	D	1005	B,SC
FAM	1007	Air Cond and Press System	-	-	3.5	*	S/A	-	D	1006	B,SC
FAM	1008	Comm/Nav System	-	-	3.5	*	S/A	-	D	1007	B,SC
FAM	1100	Squadron Introduction	6.0	-	-	*	A	1	D	1008	B,SC
FAM	1101	External Preflight	4.0	-	-	*	A	1	D	1100	B,SC
FAM	1102	Internal Preflight	-	-	4.0	*	S/A	-	D	1101	B,SC
FAM	1103	Topside Preflight	2.0	-	-	*	A	1	D	1102	B,SC
FAM	1104	Flight Station Preflight	-	-	6.0	*	S/A	-	D	1103	B,SC
FAM	1105	Emergency Equipment and Procedures	6.0	-	-	*	S/A	-	D	1104	B,SC
FAM	1106	Servicing	6.0	-	-	*	A	1	D	1105	B,SC
FAM	1107	Introduce Post-Flight	6.0	-	-	*	A	1	D	1106	B,SC
FAM	1108	Pre-Flight/Post-Flight	6.0	-	-	*	A	1	D	1107	B,SC
FAM	1109	Fam Flight	-	3.5	-	*	A	1	(N)	1108	B,SC
			36.0	3.5	37.5						
NIGHT SYSTEMS (NS)											
NS(H)	1150	NS HLL FAM	-	-	3.0	*	S/A	-	NS	1109	B
NS(H)	1151	NS LLL FAM	-	-	3.0	*	S/A	-	NS	1150	B
			0.0	0.0	6.0						

TACTICAL NAVIGATION (TN)											
TN	1200	TN INTRO	-	-	2.0	*	S/A	-	D	1109	B
			0.0	0.0	2.0						
CARGO AND PASSENGER LOADING (CPL)											
CPL	1510	PAX/BAGS	-	-	4.0	*	S/A	-	(N)	-	B,SC
CPL	1511	ROLLING STOCK	-	-	4.0	*	S/A	-	(N)	-	B,SC
CPL	1512	ROLLING STOCK	-	-	4.0	*	S/A	-	(N)	1511	B,SC
CPL	1513	PALLETIZED CARGO	-	-	4.0	*	S/A	-	(N)	-	B,SC
CPL	1514	PALLETIZED CARGO	-	-	4.0	*	S/A	-	(N)	1513	B,SC
CPL	1515	MIXED PAX/BAGS/CARGO	-	-	4.0	*	S/A	-	(N)	1510,1512,1514	B,SC
			0.0	0.0	24.0						
AIR TO AIR REFUELING (AAR)											
AAR	1600	FW/TR AAR	-	-	2.0	*	S/A	-	D	1109	B
AAR	1601	HELICOPTER AAR	-	-	2.0	*	S/A	-	D	1109	B
			0.0	0.0	4.0						
RAPID GROUND REFUELING (RGR)											
RGR	1610	RGR	2.0	-	-	*	A	1	D	-	B,SC
			2.0	0.0	0.0						
TOTALS		**FLT HRS**	38.0	3.5	73.5	**SIM HOURS**					

KC-130J Crewmaster												
2000 CORE SKILL												
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING
NIGHT SYSTEMS (NS)												
NS(H)	2150	NS QUAL	2.0	-	365	A/S	1	NS	1151	B,SC,R	-	-
			2.0	0.0								
LONG RANGE NAVIGATION (LRN)												
LRN	2162	LR NAV	6.0	-	730	A	1	(N)	-	B,SC,R	-	-
			6.0	0.0								
TACTICAL NAVIGATION (TN)												
TN	2201	DAY TN	2.0	-	365	A/S	1	D	1200	B	-	-
TN	2202	ACS TN	2.0	-	365	S/A	-	(N)	1200,2150~NS	B,SC,R	-	2201,2150~NS
TN	2250	NS TN	2.0	-	365	A/S	1	NS	2150,2201	B,R	-	2150,2201
			6.0	0.0								
LOW ALTITUDE TACTICS (LAT)												
LAT	2261	DAY LAT	2.0	-	365	A	1	D	2201	B,R	-	2201
LAT	2262	ACS LAT	-	2.0	365	S/A	-	(N)	2202,2150~NS 2261	B,SC,R	-	2202,2261, 2150~NS
			2.0	2.0								
THREAT REACTION (TR)												
TR	2400	THREAT REACTION	-	2.0	365	S/A	-	(N)	2150~NS	B,R	-	2150~NS
TR	2401	ACS THREAT	-	2.0	365	S/A	-	(N)	2400,2150~NS	B,SC,R	-	2150~NS
			0.0	4.0								
TOTALS		FLT HRS	16.0	6.0	SIM HOURS							

KC-130J Crewmaster												
3000 MISSION SKILL												
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING
ASSAULT LANDING ZONE (ALZ)												
ALZ	3502	COL	1.0	-	365	A	1	(N)	2150~NS,3512	B,SC,R	-	2150~NS
ALZ	3503	A/C PREP	1.0	-	365	A	1	(N)	2150~NS	B,SC	-	2150~NS
			2.0	0.0								
CARGO AND PASSENGER LOADING (CPL)												
CPL	3510	PASSENGERS AND BAGS	3.0	-	365	A/S	1	(N)	1515, 2150~NS	B,SC,R	-	
CPL	3511	ROLLING STOCK	3.0	-	365	A/S	1	(N)	1512, 2150~NS	B,SC,R	-	
CPL	3512	PALLETIZED CARGO	3.0	-	365	A/S	1	(N)	1514, 2150~NS	B,SC,R	-	
CPL	3513	HAZMAT	3.0	-	365	A/S	1	(N)	1515, 2150~NS	B,SC,R	-	
			12.0	0.0								
AIR-TO-AIR REFUELING (AAR)												
AAR	3600	FW/TR AAR	2.0	-	365	A/S	1	D	1600	B	-	-
AAR	3601	HAAR	2.0	-	365	A/S	1	D	1601	B	-	3600
AAR	3610	ACS FW/TR INTRO	-	4.0	*	S/A	-	(N)	1600,1601	B,SC	-	-
AAR	3611	ACS HAAR INTRO	-	4.0	*	S/A	-	(N)	1600,1601,3610	B,SC	-	-
AAR	3612	ACS AAR QUAL	4.0	-	180	A/S	1	(N)	3611,6011	B,SC,R	-	-
AAR	3650	NS AAR	2.0	-	365	A/S	1	NS	2150, 3601	B,R	-	2150,3601
			10.0	0.0								
RAPID GROUND REFUELING (RGR)												
RGR	3661	DAY POINTMAN	2.0	-	365	A	1	D	1610	B	-	-
RGR	3651	NS POINTMAN	2.0	-	365	A	1	NS	2150,3661	B,R		2150,3661
			4.0	0.0								
AIR DELIVERY (AD)												
AD	3701	ACS AD	4.0	-	180	A/S	1	(N)	2150~NS	B,SC,R	-	2150~NS
AD	3702	CDS AD	4.0	-	180	A	1	(N)	2150~NS,3512	B,SC,R	-	2150~NS
AD	3703	HE AD	4.0	-	180	A	1	(N)	2150~NS,3512	B,SC,R	-	2150~NS
AD	3704	PERS STATIC LINE AD	4.0	-	180	A	1	(N)	2150~NS,3510	B,SC,R	-	2150~NS
			16.0	0.0								
TOTALS		FLT HRS	44.0	0.0	SIM HOURS							

KC-130J Crewmaster												
4000 CORE PLUS												
STAGE	TRNG CODE	EVENT DESC	FLT/LIVE HOURS	SIM HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING
NIGHT SYSTEM LOW (NS(L)												
NS(L)	4251	NS LAT	2.0	-	365	A	1	NS	2261, 2250	B,SC,R	-	2201, 2261,2250
			2.0	0.0								
DEFENSIVE TACTICS (DT)												
DT	4411	DT RVD	2.0	-	365	A	1	D	2261	B,R	-	2201,2261
			2.0	0.0								
AIR DELIVERY (AD)												
AD	4700	COMBO AD	2.0	-	180	A	1	(N)	2150~NS,3702, 3704	B,SC,R	-	2150~NS,3702 3704
AD	4701	MILITARY FREE FALL	2.0	-	365	A	1	(N)	2150~NS	B,SC,R	-	2150~NS
			4.0	0.0								
BATTLEFIELD ILLUMINATION (BI)												
BI	4710	TM / TL	3.0	-	365	A	1	(N)	2150~NS	B,R	-	2150~NS
			3.0	0.0								
TOTALS		FLT HRS	11.0	0.0	SIM HOURS							

KC-130J Crewmaster												
5000 INSTRUCTOR TRAINING												
STAGE	**TRNG CODE**	**EVENT DESC**	**FLT/LIVE HOURS**	**SIM HOURS**	**REFLY INTVL**	**DEVICE**	**# OF A/C**	**CONDITIONS**	**PREREQ**	**POI**	**EVAL**	**CHAINING**
INSTRUCTOR UNDER TRAINING (IUT)												
IUT	5100	INSTRUCTOR UNDER TRAINING	3.0	-	*	A	1	(N)	6111	-	-	-
IUT	5101	INSTRUCTOR UNDER TRAINING	3.0	-	*	A	1	(N)	5100	R	-	-
			6.0	0.0								
CARGO/PASSENGER INSTRUCTOR (CPLI)												
CPLI	5102	CARGO/PASSENGER STAGE INSTRUCTOR	3.0	-	*	A	1	(N)	3510-3513,3502,5101	R	E	-
			3.0	0.0								
FAM INSTRUCTOR (FAMI)												
FAMI	5103	FAM STAGE INSTRUCTOR	3.0	-	*	A	1	(N)	2150,2201,2250 3600,3601,5101	R	E	-
			3.0	0.0								
PLANE CAPTAIN INSTRUCTOR (PCI)												
PCI	5104	PLANE CAPTAIN STAGE INSTRUCTOR	3.0	-	*	A	1	(N)	2150,2162,2202,2262, 2401,3503,3610-3612, 3701,5101,6118	R	E	-
			3.0	0.0								
AERIAL DELIVERY INSTRUCTOR (ADI)												
ADI	5700	AERIAL DELIVERY STAGE INSTRUCTOR	3.0	-	*	A	1	(N)	2150,3702-3704, 4700,4701,5101,6118	R	E	-
			3.0	0.0								
NATOPS/ASSISTANT NATOPS INSTRUCTOR (NI/ANI)												
NI	5140	NI/ANI TRAINING	2.0	-	*	A	1	(N)	5104	-	E	-
NI	5141	NI/ANI CHECK	2.0	-	*	A	1	(N)	5140	R	E	-
			4.0	0.0								
MAWTS-1 INSTRUCTOR POIs												
NS	5150	NSI TRAINING 1	3.0	-	*	A	1	NS	2150,5102,6118	-	-	-
NS	5151	NSI TRAINING 2	3.0	-	*	A	1	NS	5150	-	-	-
NS	5152	NSI CERTIFICATION	2.0	-	*	A	1	NS	5151	R	E	-
			8.0	-								
TOTALS		**FLT HRS**	30.0	0.0	**SIM HOURS**							

KC-130J Crewmaster												
6000 REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS												
STAGE	TRNG CODE	EVENT DESC	ACADEMIC HOURS	FLT/LIVE HOURS	REFLY INTVL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CHAINING
AIRCRAFT SYSTEMS TRAINING												
SYS	6000	APU	4.0	-	*	A	1	(N)	6111	B,SC,R	-	-
SYS	6001	ENGINE	4.0	-	*	A	1	(N)	6000	B,SC,R	-	-
SYS	6002	PROPELLERS	4.0	-	*	A	1	(N)	6001	B,SC,R	-	-
SYS	6003	ENG,PROP,APU	4.0	-	*	S	-	(N)	6000-6002	B,SC,R	-	-
SYS	6004	ELETRICAL	4.0	-	*	A	1	(N)	6003	B,SC,R	-	-
SYS	6005	COM/NAV	4.0	-	*	A	1	(N)	6004	B,SC,R	-	-
SYS	6006	AIRCOND/PRESS	4.0	-	*	A	1	(N)	6003	B,SC,R	-	-
SYS	6007	BLEED AIR	4.0	-	*	A	1	(N)	6006	B,SC,R	-	-
SYS	6008	ELEC, COM/NAV, AC PRESS, BLEEDAIR	4.0	-	*	S	-	(N)	6003-6007	B,SC,R	-	-
SYS	6009	HYD	4.0	-	*	A	1	(N)	6008	B,SC,R	-	-
SYS	6010	FUEL	4.0	-	*	A	1	(N)	6008	B,SC,R	-	-
SYS	6011	HYD, FUEL	4.0	-	*	S	-	(N)	6009,6010	B,SC,R	-	-
			48.0	0.0								
ACADEMIC EVALUATION												
NTPS	6012	NTPS OPEN BOOK EXAM	3.0	-	365	-	-	-	1000 complete	B,SC,R	E	-
NTPS	6013	NTPS CLOSED BOOK EXAM	1.0	-	365	-	-	-	1000 complete	B,SC,R	E	-
NTPS	6014	NTPS ORAL EXAM	3.0	-	365	-	-	-	1000 complete	B,SC,R	E	-
			7.0	0.0								
RIGHT SEAT TAXI OBSERVER												
RSTO	6015	RIGHT SEAT TAXI OBSERVER INTRO	-	2.0	*	A/S	1	(N)	6111	B,SC	-	-
RSTO	6016	RIGHT SEAT TAXI OBSERVER	-	1.0	*	A	1	(N)	6015	B,SC,R	-	-
			0.0	6.0								
ENGINE RUN												
ER	6017	ENGINE RUN	-	3.0	*	A/S	1	(N)	6118	B,SC	-	-
ER	6018	RUN EVAL	-	3.0	*	A	1	(N)	6017,6118	B,SC,R	E	-
			0.0	6.0								

FCF												
FCF	6105	PARTIAL FCF QUAL	-	2.0	365	A	1	D	6118	B,SC	-	-
FCF	6106	FULL FCF INTRO	-	4.0	.	S/A	-	D	6118	B,SC	-	-
FCF	6107	FULL FCF QUAL	-	4.0	365	A	1	D	6118,6106	B,SC,R	-	6105
			0.0	10.0								
NATOPS CHECK												
NTPS	6111	CM 1	-	4.0	365	A	1	(N)	1000 Phase Complete	B,SC,R	E	-
NTPS	6118	CM 2	-	4.0	365	A	1	(N)	6000-6011, 6111	B,SC,R	E	6111
			0.0	8.0								
REFUELING SUPERVISOR												
RS	6662	DAY RS	2.0	-	180	A	1	D	3661	B,SC		3661
RS	6652	NS RS	2.0	-	180	A	1	NS	6662,2150,3651	B,SC,R		2150 3651 3661 3662 6662
			4.0	0.0								
BATTLEFIELD ILLUMINATION												
QASO	6653	QASO	3.0	-	180	A	1	N	2150~NS,4710	B,SC,R		2150~NS 4710
			3.0	0.0								
TOTALS			60.0	33.0								

514. EQUIVALENCY MATRICES

CREWMASTER EQUIVALENCY MATRIX				
KC-130J CREW CHIEF T&R EVENT		**KC-130J CREWMASTER T&R EVENT**		**KC-130J LOADMASTER T&R EVENT**
1000 PHASE				
FAM 1000	↔	FAM 1000	↔	-
FAM 1001	↔	FAM 1001	↔	-
FAM 1002	↔	FAM 1002	↔	-
FAM 1003	↔	FAM 1003	↔	-
FAM 1004	↔	FAM 1004	↔	-
FAM 1005	↔	FAM 1005	↔	-
FAM 1006	↔	FAM 1006	↔	-
FAM 1007	↔	FAM 1007	↔	-
FAM 1008	↔	FAM 1008	↔	-
FAM 1100	↔	FAM 1100	↔	-
FAM 1101	↔	FAM 1101	↔	-
FAM 1102	↔	FAM 1102	↔	-
FAM 1103	↔	FAM 1103	↔	-
FAM 1104	↔	FAM 1104	↔	-
FAM 1105	↔	FAM 1105	↔	-
FAM 1106	↔	FAM 1106	↔	-
FAM 1107	↔	FAM 1107	↔	-
FAM 1108	↔	FAM 1108	↔	-
FAM 1109	↔	FAM 1109	↔	-
NS(H)1150	↔	NS(H)1150	↔	NS 1150
NS(H)1151	↔	NS(H)1151	↔	NS 1151
TN 1200	↔	TN 1200	↔	TN 1200
-	↔	CPL 1510	↔	CPL 1510
-	↔	CPL 1511	↔	CPL 1510
-	↔	CPL 1512	↔	CPL 1514
-	↔	CPL 1513	↔	CPL 1511
-	↔	CPL 1514	↔	CPL 1515
-	↔	CPL 1515*	↔	CPL 1510,1512,1514*
AAR 1600	↔	AAR 1600	↔	AAR 1600
AAR 1601	↔	AAR 1601	↔	AAR 1601
-	↔	RGR 1610	↔	RGR 1610
2000 PHASE				
NS 2150	↔	NS(H) 2150	↔	NS 2150
LRN 2162	↔	LRN 2162	↔	LRN 2162
TN 2201	↔	TN 2201	↔	TN 2201
-	↔	TN 2202	↔	-
TN 2250	↔	TN 2250	↔	TN 2250
LAT 2261	↔	LAT 2261	↔	LAT 2261
-	↔	LAT 2262	↔	-
TR 2400	↔	TR 2400	↔	TR 2400
-	↔	TR 2401	↔	-

*If all 3 codes, in the LM column, are complete then the CPL-1515, in the CM column, can be considered equivalent.

CREWMASTER EQUIVALENCY MATRIX				
KC-130J CREW CHIEF T&R EVENT		**KC-130J CREWMASTER T&R EVENT**		**KC-130J LOADMASTER T&R EVENT**
3000 PHASE				
-	↔	ALZ 3502	↔	ALZ 3502
ALZ 3503	↔	ALZ 3503	↔	-
-	↔	CPL 3510	↔	CPL 3510
-	↔	CPL 3511	↔	CPL 3511
-	↔	CPL 3512	↔	CPL 3512
-	↔	CPL 3513	↔	CPL 3513
AAR 3600	↔	AAR 3600	↔	AAR 3600
AAR 3601	↔	AAR 3601	↔	AAR 3601
AAR 3610	↔	AAR 3610	↔	-
AAR 3611	↔	AAR 3611	↔	-
AAR 3612	↔	AAR 3612	↔	-
AAR 3650	↔	AAR 3650	↔	AAR 3650
RGR 3661	↔	RGR 3661	↔	RGR 3661
RGR 3651	↔	RGR 3651	↔	RGR 3651
-	↔	AD 3701	↔	-
AD 3702	↔	AD 3702	↔	AD 3702
-	↔	AD 3703	↔	AD 3703
-	↔	AD 3704	↔	AD 3704
4000 PHASE				
NS(L) 4251	↔	NS(L) 4251	↔	NS(L) 4251
DT 4410	↔	DT 4411	↔	DT 4411
-	↔	AD 4700	↔	AD 4700
-	↔	AD 4701	↔	AD 4701
BI 4710	↔	BI 4710	↔	BI 4710
5000 PHASE				
CCI-5100	↔	5100	↔	LMI-5100
CCI-5101	↔	5101	↔	LMI-5101
CCI-5102	↔	5102	↔	LMI-5102
CCI-5102	↔	5103	↔	LMI-5102
CCI-5102	↔	5104	↔	-
-	↔	5700	↔	LMI-5102
-	↔	NI 5140	↔	-
-	↔	NI 5141	↔	-
NS 5150	↔	NS 5150	↔	NS 5150
NS 5151	↔	NS 5151	↔	NS 5151
NS 5152	↔	NS 5152	↔	NS 5152

CREWMASTER EQUIVALENCY MATRIX				
KC-130J CREW CHIEF T&R EVENT		**KC-130J CREWMASTER T&R EVENT**		**KC-130J LOADMASTER T&R EVENT**
6000 PHASE				
SYS 6000	↔	SYS 6000	↔	-
SYS 6001	↔	SYS 6001	↔	-
SYS 6002	↔	SYS 6002	↔	-
-	↔	SYS 6003	↔	-
SYS 6003	↔	SYS 6004	↔	-
SYS 6008	↔	SYS 6005	↔	-
SYS 6007	↔	SYS 6006	↔	-
SYS 6004	↔	SYS 6007	↔	-
-	↔	SYS 6008	↔	-
SYS 6006	↔	SYS 6009	↔	-
SYS 6005	↔	SYS 6010	↔	-
-	↔	SYS 6011	↔	-
-	↔	NTPS 6012	↔	-
-	↔	NTPS 6013	↔	-
-	↔	NTPS 6014	↔	-
RSTO 6015	↔	RSTO 6015	↔	-
RSTO 6016	↔	RSTO 6016	↔	-
ER 6017	↔	ER 6017	↔	-
ER 6018	↔	ER 6018	↔	-
FCF 6105	↔	FCF 6105	↔	-
FCF 6106	↔	FCF 6106	↔	-
FCF 6107	↔	FCF 6107	↔	-
NTPS-6118*	↔	NTPS 6111	↔	NTPS-6118*
NTPS-6118*	↔	NTPS 6118	↔	NTPS-6118*
-	↔	RS 6662	↔	RS 6662
-	↔	RS 6652	↔	RS 6652
-	↔	QASO 6653	↔	QASO 6710

* these codes are equivalent as long as all other requirements, laid out in the appropriate POI are met.

515. SYLLABUS EVALUATION FORMS. These forms are maintained on the MAWTS-1 website and can be downloaded from that location.