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From: Commandant of the Marine Corps
To: Distribution List

Subj: KC-130J TRAINING AND READINESS MANUAL

Ref: (a) NAVMC 3500.14D

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

1. Purpose. In accordance with reference (a), enclosure (1) contains revised standards and regulations regarding the training of KC-130J aircrew.

2. Cancellation. NAVMC 3500.53C

3. Scope. Highlights of major Training and Readiness (T&R) planning considerations included in this KC-130J T&R Manual are as follows:

a. Reformatted the T&R Manual to reflect the terminology changes made per the reference.

b. Added Assault Landing Zone Instructor to the Instructor Designations table.

c. Expanded tables in Chapter 1 to reflect number of aircraft in detachment increments of 1 through 15.

d. The proficiency period for Close Air Support for the Fire Control Officer was changed from 30 to 180 days to align with other aircraft community proficiency period standards.

e. A Weapons Tactics Instructor Military Occupational Specialty designation has been added for the Crewmaster in Chapter 3.

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

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

6. Certification. Reviewed and approved this date.

J. W. LUKEMAN
By direction

DISTRIBUTION: PCN 10031977400

CHAPTER 1

VMGR KC-130J TRAINING AND READINESS UNIT REQUIREMENTS

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CHAPTER 1

KC-130J TRAINING AND READINESS UNIT REQUIREMENTS

1.0 TRAINING AND READINESS REQUIREMENTS. The goal of Marine Aviation is to attain and maintain combat readiness to support Expeditionary Maneuver Warfare while conserving resources. The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned METs. These standards describe and define unit capabilities and requirements necessary to maintain proficiency in mission skills and combat leadership. Training Events are based on specific requirements and performance standards to ensure a common base of training and depth of combat capability.

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

1.2 TABLE OF ORGANIZATION (T/O). Refer to Table of Organization managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength for KC-130J squadrons. As of this publication date; VMGR Squadrons are authorized:

VMGR KC-130J																
Table of Organization																
CREW POSITION	NUMBER OF AIRCRAFT															FRD
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	TABLE OF ORGANIZATION PER NUMBER OF AIRCRAFT															
PILOTS	49	45	42	38	35	32	27	24	21	18	16	13	11	7	5	5
TPC	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	5
CP (T2P/T3P)	19	17	16	14	13	12	9	8	7	6	6	5	5	3	3	0
CREWMASTER	83	77	71	66	60	55	50	44	32	27	23	18	14	9	6	17
FCO*	4	4	4	4	4	4	2	2	2	2	2	2	2	2	1	0
NOTE 1: FCO numbers are only applicable to VMGR-252 and VMGR-352, and are also counted as Pilots. Numbers in the table do not reflect requirements when Harvest HAWK is part of a detachment.																

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

VMGR KC-130J		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	**ABBREVIATION**	**DESCRIPTION**
MCT 1.3.3.3.2	**EXP**	Conduct Aviation Operations from Expeditionary Shore-Based Sites
MCT 1.3.4.1	**CAT**	Conduct Combat Assault Transport
MCT 1.3.4.2	**AAR**	Conduct Air-to-Air Refueling
MCT 1.3.4.2.1	**ADGR**	Provide Aviation-Delivered Ground Refueling
MCT 4.3.4	**AD**	Conduct Air Delivery
CORE PLUS		
MET	**ABBREVIATION**	**DESCRIPTION**
MCT 1.3.4.3	**BI**	Provide Aviation-Delivered Battlefield Illumination
MCT 3.2.3.1.1	**CAS**	Conduct Close Air Support
MCT 2.2.5.2.2	**MIR**	Conduct Multi-Sensory Imagery Reconnaissance

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

VMGR KC-130J							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
MCT 1.3.3.3.2	**EXP**		X				
MCT 1.3.4.1	**CAT**		X				
MCT 1.3.4.2	**AAR**	X	X				
MCT 1.3.4.2.1	**ADGR**		X				
MCT 4.3.4	**AD**		X				
CORE PLUS							
MCT 1.3.4.3	**BI**	X	X				
MCT 3.2.3.1.1	**CAS**	X					X
MCT 2.2.5.2.2	**MIR**	X					X

1.5 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX. Depicts the relationship between a MET and each Core/Mission/Core Plus/Mission Plus skill associated with the MET for readiness reporting and resource allocation purposes. There shall be a one-to-one relationship between the MET and a corresponding Mission Skill. For example: the MET for EXP shows a one-to-one relationship with the EXP Mission Skill; the CAS MET shows a one-to-one relationship with the CAS Mission Skill, and so on. Shading indicates Core Plus.

VMGR KC-130J																						
MET TO CORE SKILLS/MISSION SKILLS/CORE PLUS SKILLS/MISSION PLUS SKILLS																						
MET	CORE												CORE PLUS (4000 PHASE)									
	CORE SKILLS (2000 Phase)							MISSION SKILLS (3000 Phase)					SKILLS							MISSION		
	LSF	NS (H)	LRN	TN	LAT	FORM	TR	ALZ	CAT	AAR	ADGR	AD	TN	NS(L)	TR	DT	HH	BAS	AD	BI	CAS	MIR
1.3.3.3.2 EXP	X	X					X	**X**							X	X						
1.3.4.1 CAT	X	X	X	X	X	X	X		**X**					X	X	X						
1.3.4.2 AAR	X	X		X		X	X			**X**			X		X	X						
1.3.4.2.1 ADGR	X	X									**X**											
4.3.4 AD	X	X		X		X	X					**X**	X		X	X			X			
MISSION PLUS																						
1.3.4.3 BI		X					X								X	X	X	X		**X**		
3.2.3.1.1 CAS		X					X			X							X	X			**X**	
2.2.5.2.2 MIR		X					X			X							X	X				**X**

1.6 MISSION ESSENTIAL TASK (MET) OUTPUT STANDARDS. The following MET output standards are the required level of performance a VMGR squadron 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 VMGR squadron is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are based on 2.6 hour average sortie duration. It assumes >70% FMC aircraft and >90% T/O aircrew on hand. If unit FMC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage.

VMGR KC-130J SQUADRON																														
MET OUTPUT STANDARDS MARTIX																														
CORE																														
MET	ABBREVIATION	MAXIMUM SORTIES PER MET															MAXIMUM DAILY SORTIES														
		NUMBER OF AIRCRAFT															NUMBER OF AIRCRAFT														
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
		SORTIES PER AIRCRAFT															SORTIES PER AIRCRAFT														
MCT 1.3.3.3.2	EXP	13	12	11	10	9	8	7	6	5	4	3	3	2	2	1															
MCT 1.3.4.1	CAT	20	19	17	16	15	13	12	11	9	8	7	5	4	3	1															
MCT 1.3.4.2	AAR	20	19	17	16	15	13	12	11	9	8	7	5	4	3	1															
MCT 1.3.4.2.1	ADGR*	8	7	7	6	6	5	4	4	4	3	3	2	2	1	1															
MCT 4.3.4	AD	9	8	8	7	7	6	6	5	5	4	4	3	3	2	1															
MISSION PLUS																														
MET	ABBREVIATION	MAXIMUM SORTIES PER MET															20	19	17	16	15	13	12	11	9	8	7	5	4	3	1
		NUMBER OF AIRCRAFT																													
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1															
		SORTIES PER AIRCRAFT																													
MCT 1.3.4.3	BI	8	8	7	7	6	6	5	5	4	4	3	3	2	1	1															
MCT 3.2.3.1.1	CAS**	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1															
MCT 2.2.5.2.2	MIR	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1															

* Aviation-Delivered Ground Refueling stated in number of crews for a two point setup.

** The number of sorties for Harvest HAWK is calculated using a six hour average sortie time.

1.7 CORE MODEL MINIMUM REQUIREMENTS (CMMR) TRAINING STANDARDS FOR READINESS REPORTING (DRRS-MC). The paragraphs and tables below delineate the minimum aircrew qualifications and designations required to execute the MET training standards and MET observed Standards of para 1.7. MCO 3000.13 Readiness Reporting provideS additional guidance and a detailed description of readiness reporting using DRRS-MC.

1.7.1 The CMMR Readiness Reporting Matrix depicts the minimum crew composition (defined as a combination of qualifications and designations) reflecting the number of crews required per MET and minimum Combat Leadership requirements for readiness reporting purposes. The number of crews formed using the below minimum standards per crew capture the readiness capability of a squadron to perform the MET sortie.

VMGR KC-130J

CMMR READINESS REPORTING MATRIX

KC-130J MINIMUM CREW QUALIFICATIONS / DESIGNATIONS REQUIRED FOR MET CAPABILITY

MISSION

MET	CREW POSITION				NUMBER OF AIRCRAFT														
	PILOT TPC	CP	FCO	CM	**15**	**14**	**13**	**12**	**11**	10	**9**	8	7	**6**	5	4	**3**	2	1
					CREWS REQUIRED PER MET AND NUMBER OF AIRCRAFT														
1.3.3.3.2 EXP	MSP	MSP	N/A	2 X MSP	**8**	**7**	**7**	**6**	**6**	5	**4**	4	3	**3**	2	2	**2**	2	1
1.3.4.1 CAT	N/A	N/A	N/A	1 X MSP	**21**	**20**	**18**	**16**	**15**	13	**11**	11	11	**10**	8	6	**5**	3	1
1.3.4.2 AAR	MSP	MSP	N/A	2 X MSP	**15**	**14**	**13**	**12**	**11**	10	**9**	8	7	**6**	5	4	**3**	2	1
1.3.4.2.1 ADGR	MSP	MSP	N/A	3 X MSP*	**8**	**7**	**7**	**6**	**6**	5	**4**	4	4	**3**	3	2	**2**	1	1
4.3.4 AD	MSP	MSP	N/A	2 X MSP	**5**	**5**	**5**	**4**	**4**	3	**3**	3	3	**2**	2	1	**1**	1	1

MISSION PLUS

MET	CREW POSITION				NUMBER OF AIRCRAFT														
	PILOT TPC	CP	FCO	CM	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
					CREWS REQUIRED PER MET AND NUMBER OF AIRCRAFT														
1.3.4.3 BI	CPMP	CPMP	N/A	3 X CPMP**	**5**	5	4	**4**	4	3	**3**	3	2	**2**	1	1	**1**	**1**	**1**
3.2.3.1.1 CAS	CPMP FCO	CPMP	CPMP	CPMP	**4**	4	4	**4**	4	4	**2**	2	2	**2**	2	2	**2**	**2**	**1**
2.2.5.2.2 MIR	CPMP FCO	CPMP	CPMP	N/A	**4**	4	4	**4**	4	4	**2**	2	2	**2**	2	2	**2**	**2**	**1**

* One Crewmaster shall be a Refueling Supervisor (RS).

** One Crewmaster shall be a Quality Assurance Safety Officer (QASO).

COMBAT LEADERSHIP

DESIGNATION	NUMBER OF AIRCRAFT														
	15	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
	DESIGNATIONS REQUIRED PER NUMBER OF AIRCRAFT														
Transport Plane Commander (TPC)	23	21	20	18	17	15	13	12	10	9	7	6	**5**	**2**	**1**
Section Leader (SL)	10	9	9	8	8	7	6	6	5	4	3	2	**2**	**1**	**1**
Division Leader (DL)	5	5	5	4	4	3	3	3	2	2	1	1	**1**	**1**	**1**
TACRAC	7	7	6	6	5	5	5	4	4	3	2	2	**1**	**1**	**1**
STRATRAC	4	3	3	3	2	2	2	2	2	2	1	1	**1**	**1**	**1**
Quality Assurance Safety Officer (QASO) [Crewmaster Only]	5	5	5	4	4	3	3	3	2	2	1	1	**1**	**1**	**1**
Refueling Supervisor (RS) [Crewmaster Only]	8	7	7	6	6	5	4	4	3	3	2	2	**2**	**1**	**1**
Crewmaster 1 [Crewmaster Only]	24	22	21	19	17	16	14	13	11	9	7	6	**4**	**4**	**3**

1.8 CORE MODEL TRAINING STANDARD (CMTS). The CMTS is the optimum training standard reflecting the number of aircrews trained to CSP/MSP, per crew position to execute each stage of flight as detailed below. The CMTS Matrix depicts the training goal and optimum depth of training desired for each squadron as they develop their squadron training plan. It is not utilized for readiness reporting (DRRS-MC) purposes. At a minimum, the CMTS shall enable a squadron to form CMMR crews for Mission Skills (and Mission Plus Skills when required). For single-seat aircraft, the number of aircrews trained to MSP standards in the CMTS Matrix and CMMR may be the same.

VMGR KC-130J																													
CORE MODEL TRAINING STANDARD (CMTS)																													
CORE SKILLS (2000 Phase)																													
SKILL	PILOT															CREWMASTER													
	NUMBER OF AIRCRAFT															NUMBER OF AIRCRAFT													
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
	PILOTS REQUIRED PER SKILL AND NUMBER OF AIRCRAFT															CREWMASTERS REQUIRED PER SKILL AND NUMBER OF AIRCRAFT													
LSF	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	N/A													
NS(H)	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
LRN	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
TN	22	20	18	16	14	12	10	8	8	6	6	6	6	4	2	22	20	18	16	14	12	10	8	8	6	6	6	6	4	2
LAT	10	8	8	8	8	6	6	6	6	4	4	4	2	2	2	N/A													
FORM	22	20	18	16	14	12	10	8	8	6	6	6	6	4	2	N/A													
TR	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
MISSION SKILLS (3000 Phase)																													
ALZ	16	14	14	12	12	10	8	8	6	6	4	4	4	4	2	16	14	14	12	12	10	8	8	6	6	4	4	4	4	2
CAT	N/A															21	20	18	16	15	13	11	11	11	10	8	6	5	3	1
AAR	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
ADGR	16	14	14	12	12	10	8	8	6	6	4	4	4	4	2	24	21	21	18	18	15	12	12	12	9	9	6	6	3	3
AD	10	10	10	8	8	6	6	6	6	4	4	2	2	2	2	10	10	10	8	8	6	6	6	6	4	4	2	2	2	2
CORE PLUS SKILLS (4000 Phase)																													
NS(L)	8	8	6	6	6	6	4	4	4	4	4	2	2	2	2	N/A													
TN	8	8	6	6	6	6	4	4	4	4	4	4	0	0	0	N/A													
TR	8	8	6	6	6	6	4	4	4	4	4	2	2	2	2	N/A													
DT	6	4	4	4	4	2	2	2	2	2	2	2	2	2	2	6	4	4	4	4	2	2	2	2	2	2	2	2	2	2
HH	8	8	8	8	8	8	8	4	4	4	4	4	4	4	2	8	8	8	8	8	8	4	4	4	4	4	4	4	4	2
BAS	8	8	8	8	8	8	8	4	4	4	4	4	4	4	2	N/A													
AD	6	6	4	4	4	2	2	2	2	2	2	2	2	2	2	6	6	4	4	4	2	2	2	2	2	2	2	2	2	2
MISSION PLUS																													
BI	10	10	8	8	8	6	6	6	4	4	2	2	2	2	2	15	15	12	12	12	9	9	9	9	6	6	3	3	3	3
CAS	8	8	8	8	8	8	4	4	4	4	4	4	4	4	2	8	8	8	8	8	8	8	4	4	4	4	4	4	4	2
MIR	8	8	8	8	8	8	4	4	4	4	4	4	4	4	2	N/A													

FIRE CONTROL OFFICER (FCO)																
CORE PLUS SKILLS (4000 Phase)																
SKILL	NUMBER OF AIRCRAFT															The Fire Control Officer (FCO) is only required on Skills listed. There is no requirement for a FCO on 2000 and 3000 Phase events.
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	FCO's REQUIRED PER SKILL AND NUMBER OF AIRCRAFT															
HH	4	4	4	4	4	4	2	2	2	2	2	2	2	2	1	
BAS	4	4	4	4	4	4	2	2	2	2	2	2	2	2	1	
MISSION PLUS (4000 Phase)																
CAS	4	4	4	4	4	4	2	2	2	2	2	2	2	2	1	
MIR	4	4	4	4	4	4	2	2	2	2	2	2	2	2	1	

1.9 INSTRUCTOR DESIGNATIONS (5000 Phase)

VMGR KC-130J																
INSTRUCTOR DESIGNATIONS (5000 Phase)																
DESIGNATION	**PILOT**															
	NUMBER OF AIRCRAFT															**FRD**
	15	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	
	PILOT DESIGNATIONS REQUIRED PER NUMBER OF AIRCRAFT															
ANI	5	5	4	4	3	3	3	3	3	2	2	1	1	1	0	5
BIP	10	10	8	8	5	5	5	5	4	3	2	2	2	2	0	5
FRSI	3	3	3	3	2	1	0	0	0	0	0	0	0	0	0	5
NSI	5	5	4	4	3	3	3	3	2	2	1	1	1	1	0	2
LATI	5	5	4	4	3	3	3	3	2	2	1	1	1	1	0	2
NSLATI	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	0
FLSE	3	2	2	2	2	1	1	1	1	1	1	1	1	1	0	2
WTI	3	3	2	2	2	1	1	1	1	1	1	1	1	1	0	0
ADI	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	0
HHI	2	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0
ALZI	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	0
DTI	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0
CREWMASTER*																
DESIGNATION	**NUMBER OF AIRCRAFT**															**FRD**
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	CREWMASTER DESIGNATIONS REQUIRED PER NUMBER OF AIRCRAFT															
NSI	7	5	4	4	3	3	3	3	3	2	2	1	1	1	0	2
WTI	5	5	4	4	3	3	3	3	3	3	3	1	1	1	0	0
NI	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANI	6	6	5	5	4	4	3	3	3	2	2	1	1	1	0	6
CPLI	5	5	4	4	3	3	3	3	2	2	1	1	1	1	0	12
MI	12	12	10	10	8	8	8	8	6	4	2	1	1	1	0	12
SI	12	10	10	10	8	8	8	8	6	4	3	1	1	1	0	12
ADI	12	10	10	10	8	8	8	8	6	4	3	1	1	1	0	12

*CM - During the transition to CM (1) CMCC ANI and (1) CMLM ANI is equivalent to (1) CM ANI [Ex. (9) CMCC ANI's and (7) CMLM ANI's would equal (7) CM ANI's].

1.10 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS(RCQD) (6000 Phase)

1.10.1 Tactical squadron

VMGR KC-130J															
RCQD															
QUALIFICATIONS	**NUMBER OF AIRCRAFT**														
	15	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
	QUALIFIACTIONS PER CREW POSITION PER NUMBER OF AIRCRAFT														
FCF (Pilot)	5	5	4	3	3	3	2	2	2	1	1	1	1	1	1
FCF (Crewmaster)	5	5	4	3	3	3	2	2	2	1	1	1	1	1	1

1.10.2 FRD

VMGR KC-130J FRD	
FLIGHT LEADERSHIP (6000 PHASE)	
DESIGNATIONS	**PILOTS**
TPC	5
SEC LDR	3
DIV LDR	2

CHAPTER 2

KC-130J PILOT (MOS 7556/7557)

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CHAPTER 2

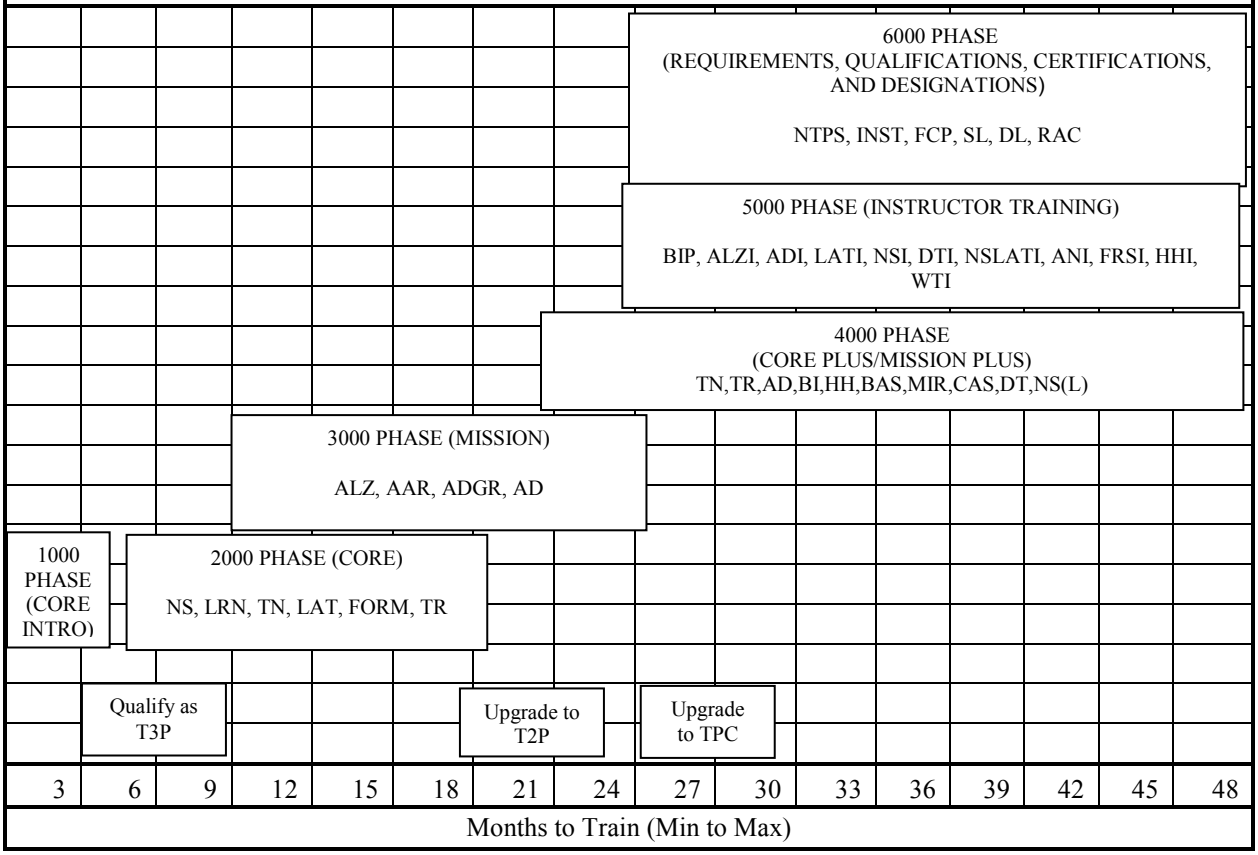
KC-130J PILOT (MOS 7556/7557)

2.0 PILOT SYLLABUS TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and Performance Standard designed to ensure individual proficiency in Core, Mission and Core Plus Skills. The goal of this chapter is to develop individual and unit war fighting capabilities.

2.1 TRAINING PROGRESSION MODEL. Represents the recommended training progression for the KC-130J Pilot. This model represents minimum to maximum time to train.

Units should use the model as a guide to generate individual training plans.

KC-130J PILOT TRAINING PROGRESSION MODEL



2.2 PROGRAMS OF INSTRUCTION (POI)

2.2.1 General. Represents the average POI time-to-train by Phase.

2.2.2 Basic/Transition/Conversion (B/T/C) POI. The Transition and Conversion POIs mirror the Basic POI and are all reflected as B in this chapter.

WEEKS	COURSE	PERFORMING ACTIVITY
1-18	Core Introduction Training	KC-130J FRD
19	Core Introduction Training	Tactical Squadron
20-84	Core Training	Tactical Squadron
52-126	Mission Training	Tactical Squadron
104-208	Core Plus / Mission Plus Training	Tactical Squadron

2.2.3 Series Conversion (S) POI

WEEKS	COURSE	PERFORMING ACTIVITY
1-16	Core Introduction Training	KC-130J FRD
17	Core Introduction Training	Tactical Squadron
18-57	Core Training	Tactical Squadron
35-82	Mission Training	Tactical Squadron
60-107	Core Plus / Mission Plus Training	Tactical Squadron

2.2.4 Modified Refresher/Refresher (MR/R) POI. The Modified Refresher POI resides within the Core Introduction Phase at the KC-130J FRD, then continues as the Refresher POI in the Core Phase through the Requirements, Certifications, Qualifications, and Designations Phase. The Modified Refresher/Refresher Pilot shall execute those Events annotated with an MR or R. Commanding Officers will review the qualifications, previous experience, currency, and demonstrated ability of the individual pilot with a view towards combining required flights.

WEEKS	COURSE	PERFORMING ACTIVITY
1-3	Core Introduction Training	KC-130J FRD
4	Core Introduction Training	Tactical Squadron
5-34	Core Training	Tactical Squadron
13-39	Mission Training	Tactical Squadron
40-50	Core Plus / Mission Plus Training	Tactical Squadron

2.2.5 NATOPS/Assistant NATOPS Instructor and Fleet Replacement Squadron Instruction POI

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

2.2.6 Basic Instructor Pilot and Stage Instructor POI

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

2.2.7 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
1	Harvest HAWK Instructor	MAWTS-1
7	Weapons and Tactics Instructor	MAWTS-1

2.2.8 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	Wing FLSE PC

2.3 PROFICIENCY & CURRENCY

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

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

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a Proficiency Period (Maintain events). Proficiency Periods establish the maximum time between Event demonstration. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the Event(s) that are not proficient. For flying communities, an individual shall complete delinquent events with a proficient instructor, crewman/flight lead as delineated by the T/M/S Syllabus Sponsor (see Chapter 3 of NAVMC 3500.14 on specific instructor requirements for Low Altitude Flight, Night Systems, ACM, DM, DACM, DCM, FAC(A)).

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

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

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

2.3.3 Skill Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with NATOPS and OPNAV requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3 of NAVMC 3500.14.

2.4 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) TABLES. The table below delineates T&R Events required to be proficient or waived to attain Requirements, Certifications, Qualifications, and Designations. Waiving of all Required Events leading to a Requirement, Certification, Qualification, or Designation is not allowed.

REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) PILOT	
Qualification	**Event Requirements**
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, LAT-2261, and TR-2400.
FCO	HH-4800,HH-4801,HH-4802,HH-4803,HH-4804,BAS-4810,BAS-4911,BAS-4812,MIR-4820,CAS-4830,CAS-4840
DTQ	LATQ, DT-4410, and DT-4411.
Designation	
T3P	Core Introduction Phase complete and NTPS-6110.
T2P	Core Phase complete, ACPM-82XX complete, and NTPS-6111.
TPC	Core and Mission Phases complete, ACPM-83XX complete, NTPS-6116, NTPS-6117, NTPS-6118, 700 total hours, and command specific directives.
Standard Inst	INST-6130 and in accordance with OPNAVINST 3710.7.
Special Inst	INST-6131 and in accordance with OPNAVINST 3710.7.
PARTIAL FCP	NTPS-6118 and FCP-6105.
FCP	150 TPC hours, a minimum 3 FCFs (2 “A” Profiles), and FCP-6106.
BIP	LATQ, NSQ(H), TN skill proficient, AAR/ADGR skill proficient, 100 TPC hours, and BIP-5101.
ANI	100 TPC hours, NI-5141, certification by NI/NE/NATOPS MM.
NI	100 TPC hours, NI-5141, certification NE/NATOPS MM.
NE	100 TPC hours, NI-5141, certification and designation by NATOPS MM.
FRSI	NI-5141 and FRSI-5147.
NSI	100 hours total NVD time (minimum 50 hours LLL), BIP, NS(H)-5152. 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	LATQ, NSQ(H), BIP, TN-4200, TR-4401, and LAT-5212. Refer to MAWTS-1 KC-130J Course Catalog.
NSLATI	30 hours post-NSI certification, NSQ(L) 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.
FLSE	WTI or Division Lead, ADI, NSI, TACRAC, and LATI, FLSE-5321, and a designation letter signed by the group commanding officer. FLSE requires certification by the FLSE program coordinator or FLSE model manager.
DTI	DTQ, LATI, 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 Mission Phase complete, ANI or NSI, and ALZ-5500.
ADI	BIP, AD Mission Phase complete, AD-4701, BI-4710, and AD-5701.
HHI	HH-4800,HH-4801,HH-4802,HH-4803,HH-4804,BAS-4810,BAS-4911,BAS-4812,MIR-4820,CAS-4830,CAS-4840,4862,4870,4890, BIP, and 5 MIR-4870 and 10 CAS-4880 sorties as FCO. Refer to MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a HHI by the commanding officer.
WTI	Refer to MAWTS-1 WTI Course Catalog. Upon certification by MAWTS-1, the IUT will be designated a WTI by the commanding officer.
Sec Lead	BIP, minimum 2 flights as TPC wingman, ACPM-8630, ACPM-8660, and SL-6301.
Div Lead	200 TPC hours, 2 flights as a designated SL, ACPM-8620, ACPM-8640, ACPM-8641, and DL-6304.
TACRAC	SL-6302 and RAC-6311.
STRATRAC	Division Lead, TACRAC, and RAC-6313.

2.5 SYLLABUS NOTES.

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

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

2.5.3 An ATF is required for any initial event completed by a Basic or Refresher pilot, or as recommended by the squadron Standardization Board. If the commanding officer has waived/deferred a syllabus sortie, the squadron training officer shall place a waiver/deferral letter in section 3 of the APR.

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

Code	Description (Environmental Condition)
D	Shall be conducted during day.
N	Shall be conducted at night, aided or unaided, at least 30 minutes after official sunset.
(N)	May be conducted day or night. If at night, aided or unaided.
NS	Shall be conducted at night aided under High Light Level or Low Light Level at least 30 minutes after official sunset.
HLL	Shall be conducted at night aided under High Light Level conditions.
LLL	Shall be conducted at night aided under Low Light Level conditions.
(NS)	May be conducted day or night. If at night, shall be aided under High Light Level or Low Light Level at least 30 minutes after official sunset.
(HLL)	May be conducted day or night. If at night, shall be aided and under High Light Level conditions.
(LLL)	May be conducted day or night. If at night, shall be aided and under Low Light Level conditions.
N*	Shall be conducted at night unaided, at least 30 minutes after official sunset.
(N*)	May be conducted day or night. If at night, shall be unaided.
D/NS	Shall be conducted in the simulator during day and night aided.

2.5.5 Device Matrix

Symbol	Meaning
A	Conducted in Aircraft.
A/S	Aircraft Preferred / Simulator Optional.
S	Conducted in Simulator.
S/A	Simulator Preferred / Aircraft Optional.
G	Ground / Academic Training. May included CBT, lectures, self-paced.

2.5.6 Program of Instruction Matrix

Program of Instruction (POI)	Symbol	Aviation Flying
Basic	**B**	Initial MOS / Skill Training.
Transition*	**T**	Moving from one Type to another (Rotary Wing to Fixed Wing).
Conversion*	**C**	Moving from Model to another (UH-1Y to CH-53E).
Series Conversion	**S**	Moving from one Series to another (KC-130T to KC-130J).
Refresher	**R**	DIFDEN to DIFOPS in same T/M/S.
Maintain	**M**	All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency.
Modified Refresher	**MR**	FRS only – See NAVMC 3500.14 Chapter 4 for specific assignment.
Contract Instructor	**CI**	Contract Instructor.
*For the KC-130J the **T** and **C** POIs mirror the **B** POI.		

2.5.7 Event Terms

Term	Description
Discuss	An explanation of systems, procedures, or maneuvers during the brief, in flight, or post flight. Student is responsible for knowledge of procedures.
Demonstrate	The description and performance of a particular maneuver/event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required maneuver.
Introduce	The instructor may demonstrate a procedure or maneuver to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of a maneuver by the student.
Evaluate	Any flight designed to evaluate aircrew standardization that does not fit into another category.

2.6 CORE INTRODUCTION PHASE (1000)

Purpose. The purpose of this phase of training is to instruct the pilot in KC-130J fundamentals and introduce tactical missions assigned to a VMGR. At the completion of this phase, the pilot will be ready to progress to the VMGR squadron to complete a T3P NATOPS checkride. 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.

General. The following Stages are included in the Core Introduction Phase of training.

Phase Overview

CORE INTRODUCTION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
CPT	2.7.1	2-9
FAM	2.7.2	2-12
NS(H)	2.7.3	2-19
LRN	2.7.4	2-19
TN	2.7.5	2-20
FORM	2.7.6	2-21
TR	2.7.7	2-21
ALZ	2.7.8	2-22
AAR	2.7.9	2-23
AD	2.7.10	2-24
FCRM	2.7.11	2-24

Instructor. 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.

The KC-130J Fleet Replacement Detachment (FRD) Commanding Officer shall be responsible for Core Introduction Phase standardization. VMGR squadrons shall maintain qualified FRSIs in order to conduct 1000 phase training in accordance with NAVMC 3500.14.

KC-130J CIs represent varying aviation backgrounds and experience levels and shall be qualified in accordance with section 212 of this chapter prior to instructing the Core Introduction Phase.

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. 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.

Admin Notes. Academic requirements, including computer based training (CBT) and lectures, are in accordance with the FRD-approved ground training curriculum.

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

2.7 CORE INTRODUCTION STAGES

2.7.1 Cockpit Procedures Training (CPT)

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

CPT Overview

COCKPIT PROCEDURES TRAINING (CPT) STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
CPT-1100	2.0	*	B,S	D	S	CHECKLIST INTRO
CPT-1101	2.0	*	B,S	D	S	CNI-MS/CNBP INTRO
CPT-1102	2.0	*	B,S	D	S	COMM/NAV OPS
CPT-1103	2.0	*	B,S	D	S	AMU/HDD OPS
CPT-1104	2.0	*	B,S	D	S	HUD OPERATION
CPT-1105	2.0	*	B,S	D	S/A	FLIGHT PROGRAMMING 1
CPT-1106	2.0	*	B,S	D	S	FLIGHT PROGRAMMING 2
CPT-1107	2.0	*	B,S,MR	D	S/A	APU/ENGINE OPS
CPT-1108	2.0	*	B,S,MR	D	S/A	PROP/HYD OPS
CPT-1109	2.0	*	B,S,MR	D	S	ELEC/BIU BACKUP OPS
CPT-1110	2.0	*	B,S,MR	D	S/A	BLEED AIR
CPT-1111	2.0	*	B,S,MR	D	S/A	FUEL MANAGEMENT OPS

CPT-1100 2.0 * B,S D S 1 WST

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 brake, lighting, oxygen system, and normal checklist procedures.

Performance Standard

Demonstrate a basic level of familiarity with the general cockpit environment.

Using Chapter 7 of NAVAIR 01-75GAJ-1 as a reference, be able to follow the instructor through an overview demonstration of each of the basic cockpit triggers, flows, checklists, and procedures.

Demonstrate the ability to identify basic facts, terms, and procedures associated with performing cockpit flows and checklists.

Prerequisite. FRD-approved ground training curriculum.

CPT-1101 2.0 * B,S D S 1 WST

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 Standard

Demonstrate the ability to follow the instructor through an introduction of basic CNI-MU and CNBP operations.

Identify basic facts, terms, and procedures associated with the CNI-MU and the CNBP.

With assistance from the instructor and reference to NAVAIR 01-75GAJ-1, perform basic cockpit flows and checklist procedures.

Prerequisite. CPT-1100.

CPT-1102 2.0 * B,S D S 1 WST

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 CNI-MS initialization and CNBP operations.

Performance Standard

Demonstrate the ability to follow the instructor through an introduction of radio tuning and navigation alignment procedures using the CNI-MU and CNBP.

Identify basic facts, terms and procedures associated with radio and NAVAID tuning.

Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1101.

CPT-1103 2.0 * B,S D S 1 WST

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 and review CNBP operations.

Performance Standard

Demonstrate the ability to follow the instructor through an introduction to the AMU and HDD design and operations.

Identify basic facts, terms, and procedures associated with the AMU and HDDs.

Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1102.

CPT-1104 2.0 * B,S D S 1 WST

Goal. Introduce the pilot to HUD operations.

Requirement. The flight will introduce Heads Up Display (HUD) operations. The instructor will discuss and introduce use of the HUD. The student will practice normal checklist procedures and CNI-MS operations and review AMU, HDD, aircraft soft panels, and previously discussed avionics systems.

Performance Standard

Demonstrate the ability to follow the instructor through an introduction to HUD operations and identify associated basic facts, terms, and procedures.

Demonstrate the ability to perform basic cockpit flows and checklist procedures with assistance from the instructor and reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1103.

CPT-1105 2.0 * B,S D S/A 1 WST/KC-130J

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 and review HUD operations.

Performance Standard

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

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

Demonstrate the ability to complete basic cockpit flows and checklist procedures with limited instructor intervention and limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1104.

CPT-1106 2.0 * B,S D S 1 WST

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.

Performance Standard

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.

Demonstrate the ability to complete basic cockpit flows and checklist procedures with limited instructor intervention and limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1105.

CPT-1107 2.0 * B,S,MR D S/A 1 WST/KC-130J

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. A minimum of one auxiliary transfer pump failure and one external transfer pump failure will be performed. The student will practice normal checklist procedures and review interior inspection and power up checks.

Performance Standard

Demonstrate a basic level of familiarity with fuel, APU, and engine system operations and emergency procedures.

Identify basic facts, terms, and operating procedures associated with each introduced system.

Complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1106.

CPT-1108 2.0 * B,S,MR D S/A 1 WST/KC-130J

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 Standard

Demonstrate a basic level of familiarity with propulsion and hydraulic system operations and emergency procedures.

Identify basic facts, terms and operating procedures associated with each introduced system.

Demonstrate the ability to complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1107.

CPT-1109 2.0 * B,S,MR D S 1 WST

Goal. Practice normal and emergency checklist procedures. Introduce electrical system 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 Standard

Demonstrate a basic level of familiarity with electrical system operations, electrical system emergency procedures, and BIU backup mode operations.

Identify basic facts, terms and operating procedures associated with each introduced system.

Demonstrate the ability to complete basic cockpit flows and checklist procedures with occasional instructor intervention and limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1108.

CPT-1110 2.0 * B,S,MR D S/A 1 WST/KC-130J

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

Requirement. The instructor will discuss and introduce bleed air, environmental, and ice protection systems operation and emergencies. A minimum of one wing bleed air leak, one cross-ship bleed air leak, one underfloor bleed air leak, and one nacelle bleed air leak will be performed. The student will practice normal checklist and touch and go procedures.

Performance Standard

Demonstrate a basic level of familiarity with the bleed air, environmental control, ice protection systems, and related emergencies.

Identify basic facts, terms, and procedures associated with each introduced system.

Complete basic cockpit flows and checklist procedures without instructor intervention and with limited reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1109.

CPT-1111 2.0 * B,S,MR D S/A 1 WST/KC-130J

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 Standard

Demonstrate a basic level of familiarity with the flight control systems, the Automatic Flight Control System (AFCS), fuel management procedures, and related emergency procedures.

Identify basic facts, terms and operating procedures associated with each introduced system.

Complete all basic cockpit flows and checklist procedures without instructor intervention or reference to NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1110.

2.7.2 Familiarization (FAM)

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.

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.

FAM Overview

FAMILIARIZATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FAM-1112	2.0	*	B,S	D	S/A	VISUAL FLIGHT 1
FAM-1113	2.0	*	B	D	S/A	VISUAL FLIGHT 2
FAM-1114	2.0	*	B,MR	D	S/A	VISUAL FLIGHT 3
FAM-1115	2.0	*	B,S	N*	S/A	NIGHT VISUAL FLIGHT
FAM-1116	2.0	*	B,S,MR	D	S/A	INST FL – ILS/NDB
FAM-1117	2.0	*	B,S	N*	S/A	INST FL – TACAN/LOC
FAM-1118	2.0	*	B	D	S/A	RADAR APPROACHES
FAM-1119	2.0	*	B	D	S/A	EN ROUTE OPS 1
FAM-1120	2.0	*	B,S,MR	N*	S/A	EN ROUTE OPS 2
FAM-1121	2.0	*	B,S	D	S/A	ASYMMETRIC OPS 1
FAM-1122	2.0	*	B,S,MR	D	S	ASYMMETRIC OPS 2
FAM-1123	2.0	*	B	D	S	ASYMMETRIC OPS 3
FAM-1124	2.0	*	B,S	D	S	SPECIAL PROCEDURES
FAM-1125	2.0	*	B,S	D	S	ELEC/FLAP/PROP EPS
FAM-1126	2.0	*	B	D	S/A	HYD/FLT CONTROL EPS
FAM-1127	2.0	*	B	D	S/A	LANDING GEAR EPS
FAM-1128	2.0	*	B,S	D	S/A	AUTOFLIGHT 1
FAM-1129	2.0	*	B	N*	S/A	AUTOFLIGHT 2
FAM-1130	2.0	*	B,S	D	S/A	REVIEW FLIGHT
FAM-1131	2.0	*	B,S,MR	D	S/A	FRD EVALUATION
FAM-1132	3.0	*	B,S	D	A	PREFLIGHT/EMER EQPMT

FAM-1112 2.0 * B,S D S/A 1 WST/KC-130J

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 Standard

Demonstrate a basic level of familiarity with the normal takeoff, climb out, stall recovery, unusual attitude recovery, visual approach, full stop landing, and touch and go procedures in accordance with NAVAIR 01-75GAJ-1.

Basic air work standards include +/- 10 KIAS, 200 feet of assigned altitude, 10 degrees of assigned heading, and angle of bank within 10 degrees during steep turns.

For approach to stall maneuvers, after the first indication of stall, recover with less than 200 feet loss of altitude.

During approach to landing maneuvers, maintain positive control of aircraft speed, power, and rate of descent.

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.

Demonstrate a basic level of familiarity with CRM procedures as established in Chapter 16 of NAVAIR 01-75GAJ-1.

Prerequisite. CPT-1111.

FAM-1113 2.0 * B D S/A 1 WST/KC-130J

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 Standard

In addition to the standards established for FAM-1112 , demonstrate a working knowledge of and perform Takeoff Abort and Four Engine Flameout Emergency Procedures in accordance with NAVAIR 01-75GAJ-1.

Demonstrate the ability to conduct fuel management procedures with limited instructor intervention.

Prerequisite. FAM-1112.

FAM-1114 2.0 * B,MR D S/A 1 WST/KC-130J

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 FAM-1113, demonstrate a working knowledge of and perform crosswind takeoff and landing procedures, flaps up landings, high speed landings, and selected emergency procedures in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1113.

FAM-1115 2.0 * B,S N* S/A 1 WST/KC-130J

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 and review touch and go procedures.

Performance Standard

In addition to the standards established for FAM-1112 through FAM-1114, demonstrate a working knowledge of and perform basic visual flight maneuvers during night VMC conditions.

Demonstrate competence with touch and go procedures in accordance with NAVAIR 01-75GAJ-1 and without instructor intervention.

Prerequisite. FAM-1114.

FAM-1116 2.0 * B,S,MR D S/A 1 WST/KC-130J

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 and missed approaches, and designated emergencies and review landing procedures.

Performance Standard

Refine basic air work standards to include +/- 5 KIAS, 100 feet of assigned altitude, and 5 degrees of assigned heading.

Demonstrate a working knowledge of and perform an instrument takeoff, holding procedures, ILS and NDB approach programming, and perform designated emergencies in accordance with NAVAIR 01-75GAJ-1.

Demonstrate competence with landing procedures in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1115.

FAM-1117 2.0 * B,S N* S/A 1 WST/KC-130J

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 and introduce localizer back course (LOC-BC) procedures, holding in lieu of procedure turn procedures, and procedure turn procedures. The student will practice basic IFR procedures to include takeoffs, holding, instrument and missed approaches, and designated emergencies. and review landing procedures.

Performance Standard

In addition to the basic air work standards established in FAM-1116, demonstrate a working knowledge of TACAN, VOR, localizer and localizer back course approach programming.

Comply with published holding procedures, missed approach instructions, and designated emergencies in accordance with NAVAIR 01-75GAJ-1.

Demonstrate competence with 100% and 50% flap landings and touch and go procedures.

Prerequisite. FAM-1116.

FAM-1118 2.0 * B D S/A 1 WST/KC-130J

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 and review landing procedures.

Performance Standard

In addition to the basic air work standards established in FAM-1117, demonstrate a working knowledge of reverse taxi operations, PAR, ASR, and circling approach procedures.

Does not descend below minimums without the runway in sight during instrument approaches.

Demonstrate competence with 100%, 50%, flaps up landings, and touch and go procedures.

Prerequisite. FAM-1117.

FAM-1119 2.0 * B D S/A 1 WST/KC-130J

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 and 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 and review airway navigation and landing procedures.

Performance Standard

In addition to the basic air work standards established in FAM-1118, demonstrate a working knowledge of SID procedures, TCAS operations, airways navigation, and selected emergency procedures.

Does not descend below minimums without the runway in sight during instrument approaches.

Demonstrate competence with 100%, 50%, flaps up landings, and touch and go procedures.

Prerequisite. FAM-1118.

FAM-1120 2.0 * B,S,MR N* S/A 1 WST/KC-130J

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, including an introduction of no-HUD 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, CNI-MS programming, and instrument and missed approaches and review airway navigation and landing procedures.

Performance Standard

In addition to the basic air work standards established in FAM-1119, demonstrate a working knowledge of penetration approach procedures and selected emergency procedures.

Demonstrate competence with basic instrument approach procedures, normal 100% and 50% landings, and touch and go procedures.

Prerequisite. FAM-1119.

FAM-1121 2.0 * B,S D S/A 1 WST/KC-130J

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, and go-around procedures, airstarts, and designated emergency procedures and review fuel management procedures and instrument takeoffs.

Performance Standard

Demonstrate a working knowledge of OEI air minimum control speeds, engine failure after refusal speed, airstart procedures, and approach, landing and go-around procedures with OEI.

Demonstrate competence with basic instrument approach and fuel management procedures.

Prerequisite. FAM-1120.

FAM-1122 2.0 * B,S,MR D S 1 WST

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 student will practice instrument approaches, OEI procedures, and designated emergency procedures and review fuel management procedures and instrument takeoffs.

Performance Standard

Demonstrate a working knowledge of OEI air minimum control speeds, fuel dumping, and approach, landing and go-around procedures with OEI.

Demonstrate competence in instrument takeoffs, basic instrument approaches, and fuel management procedures.

Prerequisite. FAM-1121.

FAM-1123 2.0 * B D S 1 WST

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, and go-around procedures. The student will practice instrument approaches, OEI procedures, two engines inoperative procedures, and designated emergency procedures and review the takeoff abort procedure

Performance Standard

Demonstrate a basic level of competence with the takeoff abort procedure, OEI procedures in IFR conditions, and two engine inoperative procedures in VFR conditions.

Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1122.

FAM-1124 2.0 * B,S D S 1 WST

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

Requirement. The flight will introduce KC-130J NATOPS 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 OEI instrument approach and designated emergency procedures and review landing procedures.

Performance Standard

Demonstrate a basic level of competence with special procedures, (ATCS inoperative takeoff, flaps up takeoff, three-engine takeoff).
Demonstrate competence in no flap landings and OEI in VFR conditions.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1123.

FAM-1125 2.0 * B,S D S 1 WST

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 OEI instrument and missed approaches and designated emergency procedures and review go-arounds with OEI and landing procedures.

Performance Standard

Demonstrate competence in OEI approaches, missed approaches, and landings in low visibility.
Demonstrate no-HUD procedures by maintaining altitude within 200 feet, airspeed within 15 KIAS, and heading within 15 degrees.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1124.

FAM-1126 2.0 * B D S/A 1 WST/KC-130J

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 and missed approaches and designated emergency procedures and review landing procedures.

Performance Standard

Demonstrate competence in OEI approaches, missed approaches, and landings in low visibility.
Demonstrate proper handling of hydraulic system emergencies.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1125.

FAM-1127 2.0 * B D S/A 1 WST/KC-130J

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 and missed approaches and designated emergency procedures and review landing and touch and go procedures.

Performance Standard

Demonstrate competence OEI approaches, missed approaches, and landings in low visibility.
Demonstrate proper handling of landing gear malfunctions.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1126.

FAM-1128 2.0 * B,S D S/A 1 WST/KC-130J

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, airway navigation, CNI-MS programming, TCAS escape procedures, holding, instrument and missed approaches, and designated emergencies and review instrument takeoffs and landing procedures.

Performance Standard

Demonstrate competence in the automation pyramid.
Demonstrate competence in OEI approaches, missed approaches, and landings in low visibility.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1127.

FAM-1129 2.0 * B N* S/A 1 WST/KC-130J

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, airway navigation, CNI-MS programming, instrument and missed approaches, and designated emergencies and review instrument takeoffs and landing procedures.

Performance Standard

Demonstrate competence in the automation pyramid.
Demonstrate competence in OEI approaches, missed approaches, and landings in low visibility.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1128.

FAM-1130 2.0 * B,S D S/A 1 WST/KC-130J

Goal. Review selected aircraft maneuvers and emergencies.

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

Performance Standard

Demonstrate competence with 100%, 50%, flaps up landings, and touch and go procedures.
Demonstrate competence in IFR clearance execution, crew briefing, instrument takeoffs, emergency return, airwork in accordance with NAVAIR 01-75GAJ-1 copilot checkride parameters, and OEI instrument and missed approaches.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1129.

FAM-1131 2.0 * B,S,MR D S/A 1 WST/KC-130J

Goal. Demonstrate proficiency in selected aircraft maneuvers and emergencies.

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

Performance Standard

Demonstrate competence in 100%, 50%, flaps up landings, and touch and go procedures.

Demonstrate competence in IFR clearance execution, crew briefing, instrument takeoffs, emergency return, airwork in accordance with NAVAIR 01-75GAJ-1 copilot checkride parameters, OEI instrument and missed approaches, no-HUD approaches, and circling approaches.

Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1130.

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

Goal. Introduce aircraft emergency and miscellaneous equipment.

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

Performance Standard

Demonstrate knowledge of emergency equipment and preflight inspection procedures.

Prerequisite. CPT-1111.

External Syllabus Support. KC-130J.

2.7.3 Night Systems High (NS(H))

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

NS(H) Overview

NIGHT SYSTEMS (HIGH) STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NITE LAB	8.0	*	B,S	G	G	NITE LAB PER LOCAL MAG
NS(H)-1150	2.0	*	B,S	NS	S/A	NVD INTRO

Admin Notes. The student will attend NITE Lab and complete the FRD-approved NS(H) ground training curriculum prior to this Stage. The student will be familiar with Air NTTP 3-22.3-KC130 and MAWTS-1 NVD Manual.

Instructor. FRSI NSI or CI NSI.

NS(H)-1150 2.0 * B,S NS S/A 1 WST/KC-130J

Goal. Introduce NVD procedures.

Requirement. The flight will introduce KC-130J Night Systems (NS) operations under High Light Level (HLL) and Low Light Level (LLL) conditions. The instructor will discuss NVG operations, to include the use of oxygen mask with helmets and NVGs, aircraft lighting considerations, and introduce designated visual maneuvers with NVGs donned. The effects of shadowing, cultural lighting, and weather on NVG 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 Standard

Demonstrate competence with 100% and 50% landings and touch and go procedures while donning NVGs.

Demonstrate competence in goggle/degoggle considerations and procedures, aircraft lighting, HLL/LLL performance differences, and SLAP data.

Prerequisite. FAM-1126 and NITE Lab.

External Syllabus Support. NITE Lab.

2.7.4 Long Range Navigation (LRN)

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

LRN Overview

LONG RANGE NAVIGATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
LRN-1160	2.0	*	B,S	D	S/A	INTRO TO LRN PROC

Admin Notes. The student will complete the FRD-approved LRN ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130 , Foreign Clearance Guide, international FLIPs, and completion of a DD 1801.

Instructor. FRSI or CI LRNI.

LRN-1160 2.0 * B,S D S/A 1 WST/KC-130J

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

Requirement. The flight will introduce KC-130J long range, overwater, and ICAO environment procedures. The instructor will discuss mission planning and aircraft radios utilized in the overwater, nonradar environment. The instructor will discuss and 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 and review normal fuel management procedures.

Performance Standard

Demonstrate competence in utilizing OPARS and mission planning software in producing overwater flight plan.

Demonstrate competence in fuel planning, master flight plan, and master plotting chart.

Demonstrate competence in coast out, waypoint, and coast in procedures.

Prerequisite. FAM-1126.

2.7.5 Tactical Navigation (TN)

Purpose. Introduce the pilot to tactical navigation (TN) operations.

TN Overview

TACTICAL NAVIGATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TN-1200	2.0	*	B,S	D	S/A	INTRO TO TN PROC
TN-1201	2.0	*	B,S	D	S/A	ADVANCED TN PROC
TN-1202	2.0	*	B,S	D	S/A	INTRO TO TN MANUEVERS

Admin Notes. The student will complete the FRD-approved TN ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130 and applicable FLIPs.

Instructor. FRSI BIP or CI TNI.

TN-1200 2.0 * B,S D S/A 1 WST/KC-130J

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, TAWS, and the digimap) in the low level environment. The instructor will discuss and introduce low level flight, time control, and FENCE check procedures. The flight will be conducted on a Military Training Route (MTR) and contain a minimum of six waypoints. Flight altitude will be per NAVMC 3500.14 non-Low Altitude Tactics (LAT) minimums.

Performance Standard

Demonstrate competence in CFPS-generated flight plan route, FalconView chart production, and FLIP use.
Demonstrate competence in time navigation by arriving at the objective within +/-30 seconds.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. FAM-1126.

TN-1201 2.0 * B,S D S/A 1 WST/KC-130J

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 FENCE check procedures. The flight will be conducted on a MTR and contain a minimum of six waypoints. Flight altitude will be per NAVMC 3500.14 non- LAT minimums.

Performance Standard

Demonstrate competencies established in TN-1200.
Demonstrate competence in digimap, ground mapping radar, and TAWS use.
Demonstrate competence in advanced time navigation by arriving at the objective within +/- 15 seconds.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-1200.

TN-1202 2.0 * B,S D S/A 1 WST/KC-130J

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 and break turns. The student will practice low level operations and FENCE check procedures. Flight altitude will be per the T&R NAVMC 3500.14 non- LAT minimums.

Performance Standard

Demonstrate competencies established in TN-1200 and TN-1201.
Demonstrate competence in tactical maneuvering.
Demonstrate competence in advanced time navigation by arriving at the objective within +/- 5 seconds.
Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-1201.

2.7.6 Formation (FORM)

Purpose. Introduce the pilot to section formation operations.

FORM Overview

FORMATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FORM-1300	2.0	*	B,S	D	S/A	INTRO TO SEC FORM

Admin Notes. The student will complete the FRD-approved FORM ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130.

Instructor. FRSI Section Leader or CI FORMI.

FORM-1300 2.0 * B,S D S/A 1 WST/2 KC-130J

Goal. Introduce section formation procedures.

Requirement. The flight will introduce KC-130J section formation operations. The instructor will discuss and

introduce section formation taxi, takeoff, cruise, and recovery procedures.

Performance Standard

Demonstrate a basic level of familiarity with the formation takeoff, climb out, cruise positions, and break maneuver.

Demonstrate competence in all cruise formations.

Demonstrate competence in turns into, turns away, and break up and rendezvous.

Prerequisite. FAM-1126.

2.7.7 Threat Reaction (TR)

Purpose. Introduce the pilot to threat reaction (TR) against ground-based infrared (IR) threats.

TR Overview

THREAT REACTION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TR-1400	2.0	*	B,S	D	S/A	INTRO IR TR

Admin Notes. The student will complete the FRD-approved TR ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130 and NATOPS aircraft survivability equipment (ASE) operating procedures.

Instructor. FRSI LATI or CI IR TRI.

TR-1400 2.0 * B,S D S/A 1 WST/KC-130J

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 and introduce HUD missile launch warning cues, ALE-47, ALQ-157, and AAR-47 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 manual and automatic dispense modes of the ALE-47.

Performance Standard

Demonstrate competencies established in TN-1200 through TN-1202.

Demonstrate competence in IR TR.

Demonstrate competence in set up and operation of aircraft survivability equipment.

Demonstrate CRM in accordance with NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-1202.

2.7.8 Assault Landing Zone (ALZ)

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

ALZ Overview

ASSAULT LANDING ZONE STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
ALZ-1500	2.0	*	B	D	S/A	INTRO TO ALZ PROC
ALZ-1501	2.0	*	B,S	D	S/A	INTRO TO TAC ARRIVALS

Admin Notes. The student will complete the FRD-approved ALZ ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130, NAVAIR 01-75GAJ-1 maximum effort procedures, and NAVAIR 01-75GAJ-1.1.

Instructor. FRSI ALZI or CI ALZI.

ALZ-1500 2.0 * B D S/A 1 WST/KC-130J

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 and introduce maximum effort takeoffs, climb outs, and 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 lbs and two at a gross weight of 125,000 lbs. The student will review the takeoff abort procedure and engine failure after refusal speed.

Performance Standard

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

Prerequisite. FAM-1126.

ALZ-1501 2.0 * B,S D S/A 1 WST/KC-130J

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 and introduce random high, random low/shallow, and IR-cooled approaches. The student will practice maximum and adjusted maximum effort takeoffs, climb outs, and landings. A minimum of two adjusted maximum effort takeoffs will be performed. A minimum of four maximum effort landings, with at least two to a full stop, will be performed. The student will review brake systems failure and ground evacuation.

Performance Standard

Demonstrate competence established in ALZ-1500.
Demonstrate competence in IPRA approach planning and procedures.
Demonstrate competence in random high and low approaches to maintain airspeed within +/- 10 KIAS, altitude +/- 100 feet, and heading +/- 10 degrees.

Prerequisite. FAM-1126 and ALZ-1500.

2.7.9 Air-to-Air Refueling (AAR)

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

AAR Overview

AIR-TO-AIR REFUELING STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
AAR-1600	2.0	*	B	D	S/A	INTRO TO FWAAR/TAAR
AAR-1601	2.0	*	B	D	S/A	INTRO TO HAAR

Admin Notes. The student will complete the FRD-approved AAR ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130 and ATP-3.3.4.2.

Instructor. FRSI or CI AARI.

AAR-1600 2.0 * B D S/A 1 WST/KC-130J

Goal. Introduce FWAAR and TAAR 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, FWAAR and TAAR rendezvous procedures, join-up procedures, AAR procedures, breakaway procedures, post-AAR procedures, and designated emergencies.

Performance Standard

Demonstrate competence in mission planning software in generating a flight plan to include orbit point and fuel offload.

Demonstrate competence in AAR system.

Demonstrate competence in FWAAR and TAAR procedures and voice communication.

Prerequisite. FAM-1126.

AAR-1601 2.0 * B D S/A 1 WST/KC-130J

Goal. Introduce HAAR procedures.

Requirement. The flight will introduce KC-130J single tanker to helicopter AAR procedures. The instructor will discuss and 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 Standard

Demonstrate competence established in AAR-1600.

Demonstrate competence in HAAR procedures and voice communication.

Prerequisite. AAR-1600.

2.7.10 Air Delivery (AD)

Purpose. Introduce the pilot to air delivery operations.

AD Overview

AIR DELIVERY STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
ALZ-1700	2.0	*	B,S	D	S/A	INTRO TO AD PROC

Admin Notes. The student will complete the FRD-approved AD ground training curriculum prior to this Stage. The student should be familiar with Air NTTP 3-22.3-KC130 and AFI 11-231.

Instructor. FRSI ADI or CI ADI.

AD-1700 2.0 * B,S D S/A 1 WST/KC-130J

Goal. Introduce AD procedures.

Requirement. The flight will introduce KC-130J AD operations. The instructor will discuss and introduce low level static line 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 low level static line airdrop. The initial ingress will be via low level.

Performance Standard

Demonstrate competencies established in TN-1200 through TN-1202.

Demonstrate competence in using mission planning software togenerate a CARP solution and CARP summary.

Demonstrate competence in CNI-MU CARP mission pages.

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. TN-1202.

2.7.11 Familiarization (FCRM)

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 standard instrument checkride.

FCRM Overview

FAMILIARIZATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FCRM-1800	2.0	*	B,S,R	D	A	FAM
FCRM-1801	2.0	*	B,S	(N*)	A	FAM
FCRM-1802	2.0	*	B,S,R	(N*)	A	FAM
FCRM-1803	2.0	*	B,S	D	A	FAM
FCRM-1804	2.0	*	B,S,R	(N*)	A	FAM

Instructor. FRSI.

FCRM-1800 2.0 * B,S,R D A 1 KC-130J

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, TCAS warning procedures, visual traffic patterns, and 50% and 100% landings. Discuss the fuel system and fuel management procedures. Apply skill-based CRM principles during all mission phases.

Performance Standard

Demonstrate competence in normal takeoff, climb out, stall recovery, visual approach, full stop landing, and touch and go procedures.

Basic air work standards include +/- 10 KIAS, 200 feet of assigned altitude, 10 degrees of assigned heading, and angle of bank within 10 degrees during steep turns.

For approach to stall maneuvers, after the first indication of stall, recover with less than 200 feet loss of altitude.

During approach to landing maneuvers, maintain positive control of aircraft speed, power, and rate of descent.

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.

Demonstrate a basic level of familiarity with CRM procedures as established in Chapter 16 of NAVAIR 01-75GAJ-1.

Prerequisite. FAM-1131 and FAM-1132.

External Syllabus Support. SUAS coordination.

FCRM-1801 2.0 * B,S (N*) A 1 KC-130J

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 nonprecision instrument approaches using all available NAVAIDS and aircraft automation. Practice four engine missed approach, visual traffic patterns, and 50% and 100% landings. Practice performance data manipulation and associated impacts on TOLD, trip fuel, and en route time. Apply skill-based CRM principles during all mission phases.

Performance Standard

Refine basic air work standards.

Demonstrate a proficiency in CNI-MU approach building for precision and nonprecision approaches.

Demonstrate competence flying instrument approaches using automation within airwork standards.

Prerequisite. FAM-1800.

FCRM-1802 2.0 * B,S,R (N*) A 1 KC-130J

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 nonprecision instrument approaches emphasizing execution of procedure turns, holding, arcing, and circling. If available, practice LOC BC, DPs, and STARs. Practice four engine missed approach, visual traffic patterns, and 50% and 100% landings. Operate the digimap and radar systems to practice weather avoidance and windshear procedures. Apply skill-based CRM principles during all mission phases.

Performance Standard

Demonstrate competencies established in FAM-1801.
Demonstrate proficiency in holding, arcing, procedure turn, and circling approaches.
Demonstrate competence in radar and digital map operation.

Prerequisite. FAM-1801.

FCRM-1803 2.0 * B,S D A 1 KC-130J

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

Requirement. Practice instrument approaches and visual traffic patterns through one engine inoperative (OEI) scenarios, and go-around with OEI procedures. Practice flight using oxygen mask and smoke goggles. Discuss hydraulic system failures. Apply skill-based CRM principles during all mission phases.

Performance Standard

Demonstrate competencies established in FAM-1802.
Demonstrate competence in OEI air minimum control speeds, engine failure after refusal speed procedures, airstart procedures, and approach, landing, and go-around procedures with OEI.
Demonstrate competence in no-HUD and smoke mask approach procedures.

Prerequisite. FAM-1802.

FCRM-1804 2.0 * B,S,R (N*) A 1 KC-130J

Goal. Review aircraft handling through OEI 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 OEI scenarios, go-around with OEI procedures, and the takeoff abort procedure. Review the interpretation and management of multiple ACAWS messages, flight using the PFD, and use of oxygen mask and 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 Standard

Demonstrate competencies established in FAM-1803.
Demonstrate competence in asterisked emergency procedures.
Demonstrate competence in prioritizing multiple ACAWS messages.

Prerequisite. FAM-1803.

2.8 CORE PHASE (2000)

Purpose. This Phase provides the pilot with the fundamental, environmental, and conditional capabilities required to perform basic functions to serve as tactical enablers to allow progression to more complex Mission Skills.

General. The following Stages are included in the Core Phase of training.

Phase Overview

CORE PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
LSF	2.9.1	2-27
NS(H)	2.9.2	2-27
LRN	2.9.3	2-29
TN	2.9.4	2-29
LAT	2.9.5	2-31
FORM	2.9.6	2-32
TR	2.9.7	2-33

Instructor. Shall be instructed by an ANI, BIP, LATI, or NSI, as appropriate. Once a pilot has completed the initial event, subsequent events may be flown with another proficient pilot for that event unless a loss of proficiency in the event results in a loss of qualification. In that case, the pilot must fly with the appropriate Stage instructor. However, pilots conducting NS(H) training shall be instructed by an NSI (with appropriate Stage instructor designations) for all NVD events until qualified NSQ(H).

Simulator events shall be conducted with either an appropriate Stage instructor or an appropriately designated Contract Instructor (CI).

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

Prior to commencing a Stage, consult the MAWTS-1 KC-130J Course Catalog for applicable Academic Support Packages (ASPs).

Prerequisite. Pilots entering the Core Phase shall be Core Introduction Phase complete and be designated a T3P.

2.9 CORE STAGES

2.9.1 Left Seat Familiarization (LSF)

Purpose. Introduce left seat flight procedures and crew coordination.

LSF Overview

LEFT SEAT FAMILIARIZATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
LSF-2100	2.0	*	B,S,R	(N)	A	LEFT SEAT FAM

Instructor. Shall be instructed by an ANI.

Prerequisite. TN-2200 and AAR-3600.

LSF-2100 2.0 * B,S,R (N) A 1 KC-130J

Goal. Develop proficiency in ground and flight operations from the left seat.

Requirement. Introduce left seat normal and emergency-procedures to include engine failure after refusal speed. Emphasize taxi, reverse taxi, takeoff, and landing procedures from the left seat.

Performance Standard

Properly execute pilot flows in accordance with NAVAIR 01-75GAJ-1.
Safely taxi the aircraft and perform aircraft reverse taxi operations.
Properly execute the takeoff abort procedure.
Safely land the aircraft in 50% and 100% flap landing configurations.

Prerequisite. 6110,2200,3600

2.9.2 Night Systems (High) (NS(H))

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.

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 commanding officer.

NS(H) Overview

NIGHT SYSTEMS (HIGH) STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NS(H)-2150	2.0	90	B,S,R,M	HLL	A/S	HLL NVD PROCEDURES
NS(H)-2151	2.0	90	B,S,R,M	LLL	A/S	LLL NVD PROCEDURES

Instructor. Shall be instructed by a NSI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 NVD Manual and Air NTTP 3-22.3-KC130.

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

Goal. HLL NVD procedures.

Requirement. Conduct night operations under HLL conditions. Event 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 and 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 and water, cultural lighting, and altitudes (above 1,000 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 Standard

Demonstrate competence in takeoff, climb out, visual approach, full stop landing, and touch and go procedures in accordance with NAVAIR 01-75GAJ-1 with NVDs donned.

Basic air work standards include +/- 5 KIAS and 100 feet of assigned altitude.

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.

Demonstrate a basic level of familiarity with NVD operations.

Range Requirement. Airfield capable of varied airfield lighting configurations.

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

Goal. LLL NVD procedures.

Requirement. Conduct night operations under LLL conditions. If not conducted before NS(H)-2150, event 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 and 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 and water, cultural lighting, and altitudes (above 1,000 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 Standard

Demonstrate competence in takeoff, climb out, visual approach, full stop landing, and touch and go procedures in accordance with NAVAIR 01-75GAJ-1 with NVDs donned.

Basic air work standards include +/- 5 KIAS and 100 feet of assigned altitude.

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.

Demonstrate a basic level of familiarity with NVD operations.

Range Requirement. Airfield capable of varied airfield lighting configurations.

2.9.3 Long Range Navigation (LRN)

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. Events should be flown in the ICAO environment.

LRN Overview

LONG RANGE NAVIGATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
LRN-2160	6.0	*	B,S	(N)	A	CONSTANT TAS LRN
LRN-2161	6.0	*	B,S	(N)	A	LR CRUISE LRN
LRN-2162	6.0	365	B,S,R,M	(N)	A	LRN

Instructor. Shall be instructed by a TPC.

Admin Notes. Review use of mission planning software , OPARS, CNI-MU functionality, radar operation, ICAO procedures, FLIP GP/APs, Foreign Clearance Guide, NAVAIR 01-75GAJ-1.1 , and Air NTTP 3-22.3-KC130.

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

Goal. Introduce long range, non-radar, ICAO environment procedures utilizing the different KC-130 flight profiles.

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

Performance Standard

Correctly submit a Diplomatic Country Clearance Request per the Foreign Clearance Guide (if required).
Correctly utilize mission planning software, OPARS, FLIP publications to file a DD-1801.
Demonstrate basic familiarity with LRN procedures.

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

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/mission planning software utilization, diplomatic clearances and appropriate publications. Practice use of FLIP en route flight publications, coast out procedures, fuel management procedures, non-radar reporting procedures, and HF/SELCAL voice procedures.

Performance Standard

Demonstrate competencies established in LRN-2160.
Demonstrate proper LRN procedures.

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

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

Requirement. Practice long range navigation flight planning. Practice use of FLIP en route 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.

2.9.4 Tactical Navigation (TN)

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 low level navigation. All initial TN

events shall be conducted in the aircraft.

TN Overview

TACTICAL NAVIGATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TN-2200	2.0	*	B,S,R	D	A/S	TN TIME NAV (PM)
TN-2201	2.0	365	B,S,R,M	D	A/S	TN PROCEDURES (PF)
TN-2250	2.0	180	B,S,R,M	HLL	A/S	HLL TN PROCEDURES (PF)
TN-2251	2.0	180	B,S,R,M	LLL	A/S	LLL TN PROCEDURES (PF)

Instructor. TN-2200 and TN-2201 shall be instructed by a BIP. TN-2250 and TN-2251 shall be instructed by an NSI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review the Air NTTP 3-22.3-KC130.

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

Goal. Tactical time navigation procedures as pilot monitoring (PM).

Requirement. Plan and execute a VFR navigation route of at least 6 waypoints with at least 1 time constrained waypoint. The 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/ground mapping radar/TAWS familiarity. Minimum altitude per NAVMC 3500.14 non-LAT minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Arrive at planned TOT within +/- 30 seconds.
Demonstrate the ability to modify the route in flight to account for ahead or behind time.
Satisfactory completion of the procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Range Requirement. Appropriate SUAS or MTR scheduled.

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

Goal. Tactical navigation procedures as 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, FLIP usage, SLAP, BASH, mission planning software, 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, TAWS, radar, 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.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-2200.

Range Requirement. Appropriate SUAS or MTR scheduled.

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

Goal. HLL tactical navigation procedures as PF.

Requirement. Plan and navigate a low level route of at least 6 waypoints at night during HLL conditions while

aided. 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 NAVMC 3500.14 non-LAT minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-2201.

Range Requirement. Appropriate SUAS or MTR scheduled.

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

Goal. LLL tactical navigation procedures as 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 NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. TN-2201.

Range Requirement. Appropriate SUAS or MTR scheduled.

2.9.5 Low Altitude Tactics (LAT)

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.

LAT Overview

LOW ALTITUDE TACTICS STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
LAT-2260	2.0	*	B,S	D	S/A	INTRO TO LAT PROC
LAT-2261	2.0	180	B,S,R,M	D	A	LAT PROC

Instructor. Shall be instructed by a LATI or CI LATI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130.

General LAT rules of conduct (ROC) are contained in NAVMC 3500.14. All LAT sorties require all pilots 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, as well as initial event completion of TR-2400.

Upon completion of LAT qualification requirements, pilots shall be issued a LAT qualification letter from the commanding officer.

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

Goal. Intro to LAT procedures.

Requirement. Discuss LAT ROC and LAT currency versus proficiency. Discuss the threat environment that would

require a LAT profile. Review principles of energy management and masking techniques. Practice ridgeline crossings, terrain clearance turns, and conduct a MAC demonstration (simulator only). Minimum altitude is per NAVMC 3500.14 but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130.

Prerequisite. TN-2201.

Range Requirement. Scheduled appropriate LAT-approved SUAS if conducted in the aircraft.

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

Goal. LAT procedures.

Requirement. Review mission planning procedures for low altitude threat avoidance.. Review principles of energy management and masking techniques. Practice ridgeline crossings and terrain clearance turns. Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130.

Prerequisite. LAT-2260.

Range Requirement. Scheduled appropriate LAT-approved SUAS.

2.9.6 Formation (FORM)

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.

FORM Overview

FORMATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FORM-2300	3.0	365	B,S,R,M	D	A/S	SEC FORM PROC
FORM-2301	3.0	365	B,S,R,M	(NS)	A	DIV FORM PROC
FORM-2350	2.0	180	B,S,R,M	NS	A/S	NIGHT FORM PROC

Instructor. Shall be instructed by a section leader.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130.

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

Goal. Introduce section formation procedures.

Requirement. Demonstrate position cues and normal/emergency procedures for section formation. Emphasize communication procedures, ground operations, takeoff, join/rendezvous, tanker formations, tactical formations (AAR and TN), concepts of mutual support, lead changes, underruns, overruns, 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 Standard

Attain and maintain the proper bearing line while in the cruise echelon position on the left and right side of lead.

Recognize excessive closure and safely execute the underrun procedure.

Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS, or A/A TACAN.

Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing, and altitude change if required.

Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130.

Range Requirement. Appropriate SUAS scheduled.

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

Goal. Division formation procedures.

Requirement. Introduce and practice division formation procedures while flying as a wingman in a flight of at least three 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. Initial event should be conducted during day.

Performance Standard

Attain and maintain proper cruise formation positions.

Recognize excessive closure and safely execute the underrun procedure if required.

Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS, or A/A TACAN.

Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing, and altitude change if required.

Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130.

Prerequisite. FORM-2300 and FORM-2350, NSQ(H) or flown with NSI and SL if at night.

Range Requirement. Appropriate SUAS scheduled.

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

Goal. Night formation procedures.

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

Performance Standard

Attain and maintain the 45 degree bearing line while in the cruise echelon position on the left and right side of lead.

Recognize excessive closure and safely execute the underrun procedure.

Perform planned weather penetration procedures and reference position from lead via the LPCR, TCAS, or A/A TACAN.

Execute the briefed inadvertent weather penetration procedures with regards to AOB, timing and altitude change if required.

Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130.

Prerequisite. FORM-2300 and NSQ(H) or flown with a NSI and SL if at night. If division, FORM-2301.

Range Requirement. Appropriate SUAS scheduled.

2.9.7 Threat Reaction (TR)

Purpose. To attain and maintain the Threat Reaction Core Skill 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.

TR Overview

THREAT REACTION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TR-2400	2.0	180	B,S,R,M	(NS)	A/S	GROUND IR TR

Instructor. Shall be instructed by a LATI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130, Air NTTP 3-22.1 (S), NAVAIR 01-75GAJ-1 ASE descriptions, and NTRP 3-22.4.

Aircraft must have an operational ASE suite that supports infrared(IR) threat reaction.
Appropriate flares or sim bucket mirroring planned loadout shall be loaded prior to flight.
Appropriate ground threat emitters shall be available.

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

Goal. Ground IR threat reaction.

Requirement. Introduce the ALE-47, AAR-47, ALQ-157, HUD/HDD symbology, and threat reaction. Discuss IR seeker head capabilities and limitations, threat reaction calls, AAR-47 limitations and flare "cocktail." Review aircraft maneuvering that could produce high load factors. Practice bunts, jinks, hard turns, break turns, zoom climbs, and dive recoveries. 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 considerations should include the takeoff, cruise, and approach phases of flight. Initial code shall be accomplished in the aircraft during the day.

Performance Standard

Correct threat calls.
Demonstrate proficiency and use of the ASE systems on both the defensive systems hard panel and CNI-MU.
Execute the correct maneuvers.
Satisfactory completion of the maneuvers and procedures per Air NTTP 3-22.3-KC130 3-22.3 and (S) Air NTTP 3-22.1-KC-130.

Prerequisite. LAT-2260.

Ordnance. 30 overt and 90 covert flares. Sim buckets may be used if live ordnance is unavailable.

Range Requirement. SUAS authorized for expendables.

External Syllabus Support. Scheduled MWS stimulator and appropriate visual threat support (smokey SAMs).

2.10 MISSION PHASE (3000)

Purpose. Upon completion of this Phase of training, the pilot will be qualified to operate day or night in the Mission Phase. This includes assault landing zone, air-to-air refueling, aviation-delivered ground refueling, and air delivery of cargo and personnel. Individuals and crews proficient in this Phase of training should be capable of planning, managing, and conducting mission essential tasks in contingency operations.

General. The following Stages are included in the Mission Phase of training.

Phase Overview.

MISSION PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
ALZ	2.11.1	2-35
AAR	2.11.2	2-36
ADGR	2.11.3	2-38
AD	2.11.4	2-39

Admin Notes. 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.

Initial events flown in the simulator shall be conducted with either an appropriate squadron instructor or an appropriately qualified contract instructor (CI).

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

2.11 MISSION STAGES

2.11.1 Assault Landing Zone (ALZ)

Purpose. To attain and maintain the Assault Landing Zone Mission Skill. 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.

ALZ Overview

ASSAULT LANDING ZONE STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
ALZ-3500	2.0	180	B,S,R,M	D	A/S	ALZ PROCEDURES
ALZ-3501	2.0	365	B,S,R,M	(NS)	A/S	TACTICAL ARRIVALS
ALZ-3502	0.5	*	B,S	(N)	A	COMBAT OFFLOAD
ALZ-3503	0.5	730	B,S,R,M	(NS)	A	UNIMPROVED GROUND OPS
ALZ-3500	2.0	180	B,S,R,M	D	A	ALZ PROCEDURES

Instructor. Shall be instructed by an ALZI or WTI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130, NAVAIR 01-GAJ-1, and NAVAIR 01-GAJ-1.1.

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

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 adjusted maximum effort takeoffs, landings and obstacle clearance criteria with respect to TOLD. Perform a minimum of five touch and go landings, plus at least one maximum effort full stop landing and one adjusted maximum effort takeoff. Initial event shall be conducted in the aircraft.

Performance Standard

For initial event, complete manual TOLD calculations utilizing appropriate charts from NAVAIR 01-GAJ-1.1.

Consistent landings within the touchdown zone.

Consistent speed, centerline, and glideslope control.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LSF-2100.

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,S,R,M (NS) A/S 1 KC-130J/WST

Goal. Tactical arrivals.

Requirement. Introduce the random high, random low/shallow, IR-cooled, and self-contained approaches. Emphasize terrain study with respect to ingress and egress of the terminal area and method of arrival based on threat. Discuss energy management. At least one 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 Standard

Produce flight plan/route with an abeam position using either mission planning software or a paper chart for an IR-cooled approach.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LSF-2100, NSQ(H) or conducted with a NSI and ALZI or WTI if at night.

ALZ-3502 0.5 * B,S (N) A 1 KC-130J

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 NAVAIR 01-75GAJ-1.

Prerequisite. LSF-2100.

External Syllabus Support. Sufficient ramp space and forklift support.

ALZ-3503 0.5 730 B,S,R,M (NS) A 1 KC-130J

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. Perform a minimum of three touch and go landings, plus at least one maximum effort full stop landing and one adjusted maximum effort takeoff.

Performance Standard. Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LSF-2100, NSQ(H) or conducted with a NSI and ALZI or WTI if at night.

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,S,R,M NS A/S 1 KC-130J/WST

Goal. Night ALZ procedures.

Requirement. Introduce night ALZ operations to include appropriate AMP, ground operations, crew coordination with respect to ALZ operations, adjusted maximum effort takeoffs, and maximum effort landings. Review max effort TOLD computations. Perform a minimum of five touch and go landings, plus one maximum effort full stop landing and one adjusted maximum effort takeoff. Review appropriate NAVAIR 01-75GAJ-1 performance charts and Air NTTP 3-22.3-KC130. Initial event shall be flown in the aircraft.

Performance Standard

Consistent landings within the touchdown zone.

Consistent speed, centerline, and glideslope control.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

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

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

2.11.2 Air-to-Air Refueling (AAR)

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

AAR Overview.

AIR-TO-AIR REFUELING STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
AAR-3600	2.0	365	B,S,R,M	(NS)	A/S	FWAAR/TAAR PROC
AAR-3601	2.0	365	B,S,R,M	D	A/S	DAY HAAR PROC
AAR-3602	2.0	180	B,S,R,M	(NS)	S/A	AAR PANEL PROC
AAR-3600	2.0	180	B,S,R,M	NS	A/S	NIGHT HAAR PROC

Instructor. Shall be instructed by a BIP.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130 and ATP-3.3.4.2.

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

Goal. FWAAR/TAAR procedures.

Requirement. Conduct single tanker FWAAR or TAAR. Emphasize detailed planning using mission planning software 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 Standard

Produce AAR briefing card, CFPS-generated route with orbit and appropriate fuel offload, and an appropriate refueling track using either FalconView or a paper chart.

Determine the receiver's location prior to the ARCT with either the LPCR, TCAS, or A/A TACAN.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. NSQ(H) or flown with an NSI if NS.

External Syllabus Support. Fixed wing or tiltrotor receiver aircraft.

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

Goal. Day Helicopter AAR (HAAR) procedures.

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

Performance Standard

Produce AAR briefing card; mission planning software generated route with orbit and appropriate fuel offload, and an appropriate refueling track using either FalconView or a paper chart.

Determine the receiver's location prior to the ARCT with either the LPCR, TCAS, or A/A TACAN.

Arrive over the ARCP at planned ARCT.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LSF-2100

External Syllabus Support. Helicopter receiver aircraft.

AAR-3602 2.0 180 B,S,R,M (NS) S/A 1 WST/KC-130J

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 Standard

Correctly perform AR system checks, AR system normal procedures, and AR system emergency procedures.

Maintain lateral fuel balance in accordance with NAVAIR 01-75GAJ-1.

Observe NAVAIR 01-75GAJ-1 AR system limitations.

Satisfactory completion of the procedures per NAVAIR 01-75GAJ-1.

Prerequisite. AAR-3600 and AAR-3601.

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

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

Goal. Night HAAR procedures.

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

Performance Standard

Produce AAR briefing card, CFPS-generated route with orbit and appropriate fuel offload, and an appropriate refueling track using either FalconView or a paper chart.

Determine the receiver's location prior to the ARCT with either the LPCR, TCAS, or A/A TACAN.

Arrive over the ARCP at planned ARCT.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LSF-2100, AAR-3601, NSQ(H) or flown with an NSI.

External Syllabus Support. Helicopter receiver aircraft.

2.11.3 Aviation-Delivered Ground Refueling (ADGR)

Purpose. To attain and maintain the Aviation-Delivered Ground Refueling Mission Skill. Upon completion of this Stage, the pilot will be capable of conducting aviation-delivered ground refueling of aircraft and ground vehicles in austere locations.

ADGR Overview

AVIATION-DELIVERED GROUND REFUELING STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
ADGR-3660	1.0	730	B,S,R,M	(NS)	A	ADGR PROCEDURES

Instructor. Shall be instructed by a BIP.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review Air NTTP 3-22.3-KC130.

ADGR-3660 1.0 730 B,S,R,M (NS) A 1 KC-130J

Goal. ADGR procedures.

Requirement. Plan and execute an ADGR 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 ADGR site. Additionally, discuss ADGR location, security, setup, pre and post-stage areas, standard signals, and emergencies.

Performance Standard

Integrate with crewmasters in mission planning, ensure that a tanker egress plan has been established, and forecast winds are factored for receiver traffic pattern.

Integrate with RS to produce an ADGR briefing card.

Satisfactory completion of the procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. NSQ(H) or conducted with an NSI.

External Support. Crash/Fire/Rescue support. Receiver aircraft or ground vehicle.

2.11.4 Air Delivery (AD)

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 low level static line personnel, day or night. Proficiency may be regained in the aircraft with a simulated drop if all checklists are completed and ramp and door or paratroop doors are opened.

AD Overview

AIR DELIVERY STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
AD-3700	2.0	*	B,S	(NS)	S/A	INTRO TO PF AD
AD-3701	2.0	*	B,S	(NS)	S/A	INTRO TO PM AD
AD-3702	2.0	90	B,S,R,M	(NS)	A/S	PF CARGO AD
AD-3703	2.0	90	B,S,R,M	(NS)	A/S	PM CARGO AD
AD-3700	2.0	90	B,S,R,M	(NS)	A/S	PF PERSONNEL AD
AD-3700	2.0	90	B,S,R,M	(NS)	A/S	PM PERSONNEL AD

Instructor. Shall be instructed by an ADI or CI ADI

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1, NAVAIR 01-75GAJ-1.2, AFI 11-231, and Air NTTP 3-22.3-KC130.

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

Goal. Introduction to pilot flying AD.

Requirement. Review pilot flying AD procedures. A low level ingress and egress is recommended. Emphasis should be on HUD symbology, DZ markings and identification, slowdown procedures, checklist procedures, CRM, and flying a steady and controlled platform. At least three passes shall be conducted, one of which shall be a low level static line personnel drop if conducted in a simulator.

Performance Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Successfully plan and execute proper slowdown procedures.

No CARP VERT/XTRK errors resulting in a no-drop.

Correctly identify AD HUD symbology.

Efficient and correct execution of all checklist items.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

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

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

Goal. Introduction to pilot monitoring AD.

Requirement. Review pilot monitoring AD procedures. A low level ingress and egress is 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 and PROG pages. At least three passes shall be conducted, one of which shall be a low level personnel drop if conducted in a simulator.

Performance Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Correctly enter all CARP INIT and PROG data in order to verify the pre-flight CARP, left/right, and long/short distances, and green light time.

Manage all necessary CNI updates resulting in a successful drop.

Efficient and correct execution of all checklist items.

Satisfactory completion of the procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. AD-3700, NSQ(H) or flown with a NSI and ADI.

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

Goal. PF cargo AD.

Requirement. Review cargo AD procedures as the pilot flying. Emphasis should be on HUD symbology, DZ markings and identification, slowdown procedures, checklist procedures, 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 Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Correctly identify AD HUD symbology.

Efficient and correct execution of all checklist items.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. AD-3700, NSQ(H) or flown with a NSI and ADI.

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

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

Goal. PM cargo AD.

Requirement. Review cargo AD procedures as the pilot monitoring. 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 and 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 Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Correctly enter all CARP INIT and PROG data in order to verify the pre-flight CARP, left/right and long/short distances, and green light time.

Manage all necessary CNI updates resulting in a successful drop.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. AD-3701, NSQ(H) or flown with a NSI and ADI.

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

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

Goal. PF personnel low level static line AD.

Requirement. Plan and execute a personnel low level static line AD mission below 3,000 feet AGL. 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 actual personnel and should be conducted during the day.

Performance Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Correctly identify AD HUD symbology.

Efficient and correct execution of all checklist items.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. AD-3700, NSQ(H) or flown with a NSI and ADI.

External Support. Unit jumpmaster and DZ control.

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

Goal. PM personnel low level static line AD.

Requirement. Plan and execute a personnel low level static line AD mission below 3,000 feet AGL. 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 and PROG pages. Initial code shall be conducted in the aircraft with actual personnel and should be conducted during the day.

Performance Standard

Produce a route consisting of proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Correctly enter all CARP INIT and PROG data in order to verify the pre-flight CARP, left/right and long/short distances, and green light time.

Manage all necessary CNI updates resulting in a successful drop.

Satisfactory completion of the procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. AD-3701, NSQ(H) or flown with a NSI and ADI.

External Support. Unit jumpmaster and DZ control.

2.12 CORE PLUS PHASE (4000-4499)

Purpose. Upon completion of this Phase of training, the pilot will be qualified to plan and execute low level formation operations, night systems (low) operations, and defensive tactics in a radar threat environment.

General. The following Stages are included in the Core Plus Phase of training.

Phase Overview

CORE PLUS PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
TN	2.13.1	2-41
NS(L)	2.13.2	2-42
TR	2.13.3	2-43
DT	2.13.4	2-44

Admin Notes. Pilots receiving initial training as the PF or PM shall be instructed by a BIP, LATI, NSLATI, WTI, or DTI as specified in the Stage or event. Once a pilot has completed the initial event, subsequent events may be flown with another proficient pilot for that event unless a loss of proficiency in the event results in a loss of qualification. In that case, the pilot must fly with the appropriate Stage instructor.

Initial simulator events shall be conducted with an appropriate squadron instructor.

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

2.13 CORE PLUS STAGES

2.13.1 Formation Tactical Navigation (TN)

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 wingman in a formation in the low level environment.

TN Overview

FORMATION TACTICAL NAVIGATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TN-4200	3.0	365	B,S,R,M	(NS)	A	FORM TN PROC

Instructor. 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 and NSI or WTI if conducted at night and shall be instructed by NSLATI if conducted at night in the LAT environment.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs and Air NTTP 3-22.3-KC130.

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

Goal. Formation TN procedures.

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

Performance Standard

Create appropriate mission planning products to support the formation leader.

Execute a formation TN profile including tactical turns into and away, dig and pinch, various tactical formations, lead changes, and defensive maneuvering with a scatter plan.

Minimal GCAS and TAWS alerts while maintaining sight of preceding aircraft.

Satisfactory completion of the maneuvers and procedures per the Air NTTP 3-22.3-KC130.

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

Range Requirement. Appropriate SUAS or MTR scheduled.

2.13.2 Night Systems (Low) (NS(L)).

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

NS(L) Overview

NIGHT SYSTEMS (LOW) STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NS(L)-4250	2.0	*	B,S	HLL	S/A	INTRO TO NSLAT
NS(L)-4251	2.0	180	B,S,R,M	HLL	A	NSLAT PROCEDURES

Instructor. Shall be instructed by a NSLATI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1, and Air NTTP 3-22.3-KC130.

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 commanding officer.

NS(L)-4250 2.0 * B,S HLL S/A 1 WST/ 1 KC-130J

Goal. Introduce NSLAT procedures.

Requirement. Review principles of energy management, terrain masking techniques, and environmental impacts on NVDs. Practice ridgeline crossings, terrain clearance turns, and terrain masking while using NVDs. Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. NSQ(H) and LATQ.

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

Goal. HLL LAT procedures.

Requirement. Review principles of energy management, terrain masking techniques, and environmental impacts on NVDs. Practice ridgeline crossings, terrain clearance turns, and terrain masking while using NVDs. Minimum altitude per NAVMC 3500.14 minimums but not lower than comfort level.

Performance Standard

Create appropriate mission planning products.
Minimal GCAS and TAWS alerts.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. NS(L)-4250.

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

2.13.3 Radar Threat Reaction (TR)

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

TR Overview

RADAR THREAT REACTION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
TR-4400	2.0	*	B,S	(NS)	A/S	INTRO TO GRND RADAR TR
TR-4401	2.0	180	B,S,R,M	(NS)	A	GROUND RADAR TR

Instructor. Shall be instructed by a WTI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130, and (S) Air NTTP 3-22.1-KC-130.
Aircraft/WST must have an operational ASE suite that supports radar threat reaction.
Appropriate ground threat emitters shall be available.

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

Goal. Introduce ground radar TR.

Requirement. Introduce ALR-56M system, 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. The appropriate modes of operation for the ALE-47 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 NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130 and (S) Air NTTP 3-22.1-KC-130.

Prerequisite. LATQ

Ordnance. 300 chaff should be used if conducted in the aircraft.

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

External Syllabus Support. Radar threat emitters if conducted in the aircraft.

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

Goal. Ground radar TR.

Requirement. Review ALR-56M system, 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 ALE-47. The appropriate modes of operation for the ALE-47 shall be addressed. The initial code shall be accomplished during the day.

Performance Standard. Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130, and (S) Air NTTP 3-22.1-KC-130.

Prerequisite. TR-4400.

Ordnance. 300 chaff.

Range Requirement. SUAS authorized for expendables.

External Syllabus Support. Appropriate RF threat emitters.

2.13.4 Defensive Tactics (DT)

Purpose. To attain and maintain the Core Plus Skill of Defensive Tactics against an air threat by combining maneuver and use of the ASE suite. Upon completion of this Stage, the pilot will be qualified in Defensive Tactics.

DT Overview

DEFENSIVE TACTICS STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
DT-4410	2.0	365	B,S,R,M	D	A	1 VS. 1 DEFTAC
DT-4411	2.0	365	B,S,R,M	D	A	1 VS. 2 DEFTAC

Instructor. Shall be instructed by a DTI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NTRP 3-22.4, Air NTTP 3-22.3-KC130, and (S) Air NTTP 3-22.1-KC-130.

Aircraft must have fully operational ASE suite.

Appropriate expendables should be loaded prior to flight.

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 commanding officer. If a PF or PM is not proficient in DT, then the other pilot seat shall be occupied by a DTI.

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

Goal. Defensive tactics versus 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 Standard

Practice crew coordination with timely and accurate maneuvers and lookout calls.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. LATQ.

Ordnance. 120 flares should be used.

Range Requirement. SUAS authorized for expendables.

External Support. Appropriate single adversary aircraft.

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

Goal. Defensive tactics versus two 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 Standard

Practice crew coordination with timely and accurate maneuvers and lookout calls.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1 and Air NTTP 3-22.3-KC130.

Prerequisite. DT-4410.

Ordnance. 120 flares should be used.

Range Requirement. SUAS authorized for expendables.

External Support. Appropriate section of adversary aircraft.

2.14 MISSION PLUS PHASE (4500-4999)

Purpose. Upon completion of this Phase of training, the pilot will be qualified to plan and execute advanced air delivery missions, battlefield illumination, and Harvest HAWK basic air support, multi-sensor imagery reconnaissance, and close air support as fire control officer (FCO) and pilot.

General. The following Stages are included in the Mission Plus Phase of training.

Phase Overview

MISSION PLUS PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
AD	2.15.1	2-45
BI	2.15.2	2-46
HH	2.15.4	2-49
FCO BAS	2.15.5	2-51
FCO MIR	2.15.6	2-53
FCO CAS	2.15.7	2-53
PILOT BAS	2.15.8	2-55
PILOT MIR	2.15.9	2-56
PILOT CAS	2.15.10	2-57

Admin Notes. Pilots receiving initial training as the PF or PM shall be instructed by an ADI or HHI as specified in the Stage. Once a pilot has completed the initial event, subsequent events may be flown with another proficient pilot for that event.

Initial simulator events shall be conducted with an appropriate squadron instructor.

In the event of PTT non-availability, simulator events may be conducted in the aircraft. Appropriate ORM policies should be used to reduce risk associated with not using a PTT.

2.15 MISSION PLUS STAGES

2.15.1 Air Delivery (AD)

Purpose. To attain and maintain the Mission Plus Skill of Air Delivery (AD). Upon completion of this stage, the pilot will be capable of planning and executing combination, Military Freefall, and JPADS AD.

AD Overview

AIR DELIVERY STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
AD-4700	2.0	365	B,S,R,M	(NS)	A	COMBINATION AD
AD-4701	2.0	365	B,S,R,M	(NS)	A	MFF AD
AD-4702	2.0	365	B,S,R,M	(NS)	A	JPADS AD

Instructor. Shall be instructed by an ADI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1, NAVAIR 01-75GAJ-1.2, Air NTTP 3-22.3-KC130, and AFI 11-231.

Mission Plus Phase simulated ADs in the aircraft do not update aircrew refly interval.

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

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 Standard

Produce proper ingress and egress routing using mission planning software and perform appropriate CARP calculations.

Efficient and correct execution of all checklist items.

Correctly enter all CARP INIT and PROG data in order to verify the pre-flight CARP, left/right and long/short distances, and green light time.

Manage all necessary CNI updates resulting in a successful drop.

Accurately compute the required drop zone dimensions.

Satisfactory completion of the procedures per Air NTTP 3-22.3-KC130.

Prerequisite. AD-3702 through AD-3705, NSQ(H) or conducted with an ADI and NSI if at night.

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

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

Goal. Military Freefall AD, either High-Altitude, High Opening (HAHO) or High-Altitude, Low Opening (HALO).

Requirement. Plan and execute a Military Freefall (MFF) AD operation. Perform in-depth mission analysis and planning of high altitude air delivery of personnel. Perform at least one HAHO or one HALO AD with in-flight HARP updates. Review applicable physiology requirements for high altitude AD operations. Emphasize tactical considerations and manual HARP computations.

Performance Standard

Manual HARP calculations.

Satisfactory completion of the procedures per Air NTTP 3-22.3-KC130 and AFI 11-231.

Prerequisite. AD-3704 and AD-3705, NSQ(H) or conducted with an ADI and NSI if at night.

External Support. MFF unit, appropriate DZ control, and physiologist support if applicable.

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

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 one JPADS air delivery. Emphasize tactical considerations and JPADS mission planning software.

Performance Standard

Account for the maximum flyout of the device.

Brief the DZ team on method of control (beacon, manual, direct, or approach).

Satisfactory completion of the procedures per the KC-130 ANTTP.

Prerequisite. AD-3702 and AD-3703, NSQ(H) or conducted with an ADI and NSI if at night.

External Support. JPADS and appropriate DZ control.

2.15.2 Battlefield Illumination (BI)

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 BI.

BI Overview

BATTLEFIELD ILLUMINATION STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
BI-4710	2.0	365	B,S,R,M	N	A	BATTLEFIELD ILLUM

Instructor. Shall be instructed by an ADI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NTRP 3-22.4, and Air NTTP 3-22.3-KC130.

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

Goal. Battlefield illumination.

Requirement. Provide overt or covert battlefield illumination with aircraft parachute flares (APFs) using Air NTTP 3-22.3-KC130 procedures. Emphasize planning in support of the ground scheme of maneuver, mission planning procedures, integration and deconfliction with other air assets, and emergency procedures.

Performance Standard

Correctly account for illumination levels.
Account for flare drift and burnout location.
Satisfactory completion of the procedures per Air NTTP 3-22.3-KC130.

Prerequisite. AD-3701, NSQ(H) or conducted with an ADI and NSI if at night.

Ordnance. 14 aircraft parachute flares.

Range Requirement. SUAS authorized for aircraft parachute flares.

2.15.3 Harvest HAWK (HH)/Basic Air Support (BAS)/Multi-Sensor Imagery Reconnaissance (MIR)/Close Air Support (CAS)

Purpose. To attain and maintain the Mission Plus Skills necessary for conducting close air support and multi-sensor imagery reconnaissance for HH Fire Control Officers (FCOs), aircraft commanders, and copilots.

HH Overview. The following table provides an overview of the entire Harvest HAWK syllabus.

Event	Description	AC	FCO	CP	CM	Flt Hours	Refly	Live Ord
HH-4800	HH Ground FAM (PTT)		X					
HH-4801	HH PTT FAM		X				180	
HH-4802	HH FCC Intro		X					
HH-4803	HH Ground FAM	X	X	X	X			
HH-4804	HH Flight FAM	X	X	X		2.5		
BAS-4860/10	Intro to day weapons employment	X	X	X		2.5		
BAS-4861/11	Day weapons employment	X	X	X		2.5		
BAS-4862/12	Live weapons employment	X(3)	X(1)			2.5		X(1)
MIR-4870/20	MIR	X	X			2.5	FCO/AC-365	
CAS-4880/30	CAS(2)	X	X	X	X	2.5	FCO/AC/CM-180	
CAS-4890/40	Urban CAS	X	X			2.5		
	Total Flight Hours (minimum)	17.5	17.5	10.0	2.5			

Notes:

(1) One live SOPGM and one live Hellfire.

(2) In order to carry ordnance, the AC and FCO must both be proficient in CAS-4880 and CAS-4830, respectively. This event may be updated by conducting actual or simulated engagements, under CAS conditions, day or night.

(3) BAS-4862 does not require live ordnance for aircraft commander qualification.

Instructor. Shall be in instructed by a HHI

Admin Notes. Pilots and FCOs for Harvest HAWK will train based on the recommendation of the Aircrew Performance Review Board (APRB).

Commanding officers shall ensure that prospective Harvest HAWK pilots and FCOs complete the following MarineNet Courses prior to the start of HH ground school:

Battlespace Geometry
CAS
Nine-Line
Fixed Wing Employment
Rotary Wing Employment

All pilots and FCOs shall receive the following classes, comprising Harvest HAWK ground school (instructed by a HHI) prior to commencing HH Mission Plus training:

Harvest HAWK Introduction/Equipment Overview
TCDL Operation
TACVIEW Operation
Digital Video Recorder
Target Sight Sensor
Tracker Operation
FalconView integration

Hellfire P AGM
Graphical User Interface and Software
Emergency Procedures
Battle Management System (BMS)
SOPGM AGM
PSS-SOF (Aircraft Commanders and FCOs should receive certification)
Precision Guided Munitions and LASER Considerations
LASER Safety
CAS Fundamentals/ Execution
Harvest HAWK Crew Coordination
Harvest HAWK Employment
Talk-on Techniques and GRG Use
CAS Practical Application/Chalk Talks
KILSWITCH

2.15.4 Harvest HAWK Fire Control Console (FCC) Familiarization (HH)

Purpose. The purpose of this Stage of instruction is to familiarize FCOs with the FCC and its operation.

HARVEST HAWK STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
HH-4800	2.0	*	B,S	D	S/A	HH GROUND FAM (PTT)
HH-4801	2.0	180	B,S,R,M	D	S/A	HH PTT FAM
HH-4802	1.0	*	B,S	D	A,G	HH FCC INTRO
HH-4803	2.0	*	B,S	D	S/A	HH GROUND FAM
HH-4804	2.5	*	B,S	D	A	HH FLIGHT FAM

Instructor. Shall be instructed by a HHI.

Admin Notes. A Harvest HAWK Partial Task Trainer (PTT) should be available for this Stage. A Harvest HAWK system installed on an aircraft shall be used for the ground familiarization event.

HH-4800 2.0 * B,S D S/A 1KC-130J HH PTT/KC-130J HH

Goal. Introduce Harvest HAWK operation.

Requirement

Introduce Harvest HAWK system preflight, Battle Management System (BMS) laptop operation, operation of the TSS (using both EO and IR cameras (both polarities) in all FOVs, emphasizing level, gain, and focus adjustments), use of air-to-ground (AG) and urban (UR) tracker modes, manual tracking considerations, LASER range-finder and tactical LASER operation, coordinate generation, use of "GO-TO" and reference position, operation of FalconView (as integrated on Harvest HAWK), TACVIEW flight station setup, Derringer door setup for Griffin/Viper Strike, and system components of KARNAC.

Discuss HH power up considerations, FCC/BMS/TSS troubleshooting procedures, shutdown procedures, CRM, and TSS boresight.

Performance Standard

Properly operate the FCC and associated hardware in accordance with applicable publications.
Generate coordinates for an object of interest within the capabilities of the system.

HH-4801 2.0 180 B,S,R,M D S/A 1KC-130J HH PTT/KC-130J HH

Goal. Develop proficiency in FCC operation.

Requirement

Practice FCO control panel, menus, and displays, joystick functionality, GUI operation, BMS laptop operation, TSS operation (using both EO and IR cameras (both polarities) in all FOVs, emphasizing level, gain, and focus adjustments), use of AG and UR tracker modes, manual tracking considerations, LASER range-finder and

tactical LASER operation, coordinate generation, use of "GO-TO" and reference position and operation of FalconView (as integrated on Harvest HAWK).

Discuss Harvest HAWK power up considerations, FCC/BMS/TSS troubleshooting procedures, and shutdown procedures.

Perform boresight of TSS.

Performance Standard

Properly operate the FCC and associated hardware in accordance with applicable publications.

Generate coordinates for an object of interest within the capabilities of the system.

Prerequisite. HH-4800.

HH-4802 1.0 * B,S D A,G 1 KC-130J HH

Goal. Introduce FCC operation (ground familiarization).

Requirement

Using a static Harvest HAWK aircraft, introduce all control panels, menus, and displays of the FCC, joystick functionality, GUI operation, use of the BMS laptop, operation of the TSS (using both EO and IR cameras (both polarities) in all FOVs, emphasizing level, gain, and focus adjustments, use of AG and UR tracker modes, manual tracking considerations, LASER ranger-finder and tactical LASER operation, and coordinate generation.

Performance Standard. Correctly operate all functions of the FCC.

Prerequisite. HH-4801.

HH-4803 2.0 * B,S D S/A 1KC-130J HH PTT/KC-130J HH

Goal. Develop proficiency in FCC operation.

Requirement

Discuss Harvest HAWK system preflight, day MIR considerations, night MIR considerations, weapons malfunctions, emergency procedures, scan techniques (route, convoy, and pattern of life), and external communication.

Introduce use of the digital video recorder.

Review use of the BMS laptop, operation of the TSS (using both EO and IR cameras (both polarities) in all FOVs, emphasizing level, gain, and focus adjustments), use of air-to-ground (AG) and urban (UR) tracker modes, manual tracking considerations, LASER range-finder and tactical LASER operation, coordinate generation, use of "GO-TO" and reference position, operation of mission planning software (as integrated on Harvest HAWK) and TCDL application.

Perform boresight of TSS.

Performance Standard

Properly preflight, power up, operate, and shutdown the FCC and associated hardware in accordance with applicable publications.
Generate coordinates for an object of interest within the capabilities of the system.

Prerequisite. HH-4802.

HH-4804 2.5 * B,S D A 1 KC-130J HH

Goal. Develop proficiency in FCC operation in flight.

Requirement

Discuss day MIR considerations, night MIR consideration, weapons malfunctions and emergency procedures, scan techniques (route, convoy, and pattern of life), and external communications.

In flight, practice use of the BMS laptop, operation of the TSS (using both EO and IR cameras (both polarities) in all FOVs, emphasizing level, gain, and focus adjustments), use of air-to-ground (AG) and urban (UR) tracker modes, manual tracking considerations, LASER range-finder and tactical LASER operation, coordinate

generation, use of "GO-TO" and reference position, operation of mission planning software (as integrated on Harvest HAWK) and TCDL application.

Perform boresight of TSS.

Performance Standard

Properly preflight, power up, operate, and shutdown the entire FCC and associated hardware in accordance with applicable publications.

Generate coordinates for an object of interest within the capabilities of the system.

Prerequisite. HH-4803.

Range Requirement. LASER-approved range desired.

2.15.5 FCO Basic Air to Surface (FCO BAS)

Purpose. The purpose of this Stage is to develop the ability to employ the AGM-114P Hellfire and SOPGM while continuing to develop proficiency on operating the TSS to detect and recognize targets.

FCO BAS Overview

FCO BASIC AIR SUPPORT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
BAS-4810	2.5	*	B,S	D	S/A	INTRO TO DAY WEAPONS
BAS-4811	2.5	*	B,S	D	A	DAY WEAPONS EMPL
BAS-4812	2.5	*	B,S	(N)	A	LIVE WEAPONS EMPL

Instructor. Shall be instructed by a HHI.

Admin Notes. This Stage focuses on employment of AGM-114P Hellfire and the SOPGM while continuing to develop proficiency on operating the TSS to detect and identify targets. Proper CAS procedures and communications (in accordance with JP 3-09.3 Close Air Support) should be practiced throughout by using instructor-generated, standardized 9-line attack briefs to initiate each engagement.

For the purposes of this Manual, Bomb on Target (BOT) engagements will consist of on-board generated coordinates based on target capture on the TSS followed by own-ship lasing through impact. Bomb on Coordinate (BOC) engagements will consist of using coordinates generated by actual or simulated TACP, coordinates generated on the aircraft using PSS-SOF, or simulated or actual off-board LASER for terminal guidance.

Crews are encouraged to use existing or self-developed gridded reference graphics or similar products during these training events. Maximum training value is achieved by incorporating theater representative products.

For SOPGM training, a CATM may be used or the BMS may be operated in indoctrination mode.

BAS-4810 2.5 * B,S D S/A 1KC-130J HH PTT/KC-130J HH

Goal. Introduce weapons employment.

Requirement

Discuss Harvest HAWK capabilities and components, target correlation, Hellfire employment, SOPGM employment, MIR considerations, and Hellfire emergency procedures.

Introduce DASC check in procedures, Hellfire BOT attack profiles, Hellfire BOC profiles, SOPGM BOT attack profiles, SOPGM BOC attack profiles, and target correlation with the aircraft commander.

Three simulated Hellfire engagements shall be conducted using BOT techniques. One of these engagements shall use manual tracking of the target through impact.

One simulated Hellfire attack shall be conducted using BOC techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques. One of these engagements shall use manual tracking of the target through impact.

One simulated SOPGM attack shall be conducted using BOC techniques.

Performance Standard

Operate system in accordance with applicable publications and demonstrate knowledge of sensor system capabilities.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Establish LASER aimpoint on the target prior to launch and maintain track on desired target through simulated weapon impact (for BOT engagements).

For manual target tracking, maintain LASER aimpoint within 15 meters of the target through impact.

Prerequisite. HH-4804.

BAS-4811 2.5 * B,S D A 1 KC-130J HH

Goal. Introduce day weapons employment.

Requirement

Discuss weaponeering, KILSWITCH and GRG use, ripple fire considerations, buddy lase profile, ground lase geometry, J-lase communications, talk on techniques, danger close parameters, collateral damage estimate considerations, and timing techniques and rules of thumb.

Introduce target correlation with the aircraft commander, CAS procedures, and crew coordination.

Three simulated Hellfire engagements shall be conducted using BOT techniques. One of these engagements shall use manual tracking of the target through impact.

One simulated Hellfire attack shall be conducted using BOC techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques. One of these engagements shall use manual tracking of the target through impact.

1 simulated SOPGM attack shall be conducted using BOC techniques.

Performance Standard

Operate system in accordance with applicable publications and demonstrate knowledge of sensor system capabilities.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Establish LASER aimpoint on the target prior to launch and maintain track on desired target through simulated weapon impact (for BOT engagements).

For manual target tracking, maintain LASER aimpoint within 15 meters of the target through impact.

Prerequisite. BAS-4810.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. LASER-approved range.

BAS-4812 2.5 * B,S (N) A 1 KC-130J HH

Goal. Live weapons employment.

Requirement

Discuss range procedures, target location error (TLE) and coordinate generation, night, MIR considerations, target correlation with the aircraft commander, and missile firing reports.

Two simulated and one actual Hellfire engagement shall be conducted using BOT techniques.

Two simulated and one actual SOPGM engagement shall be conducted using BOT techniques.

One simulated SOPGM engagement shall be conducted using BOC techniques.

Review CAS procedures, crew coordination, weapons malfunctions, and emergency procedures.

Performance Standard

Demonstrate knowledge of sensor system capabilities and operation.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Establish LASER aimpoint on the target prior to launch and maintain track on desired target through simulated weapon impact (for BOT engagements).

For manual target tracking, maintain LASER aimpoint within 15 meters of the target through impact.

Prerequisite. BAS-4810.

Ordnance. 1 AGM-114P and 1 SOPGM.

Range Requirement. LASER, Hellfire, and SOPGM approved range.

2.15.6 FCO Multi-Sensor Imagery Reconnaissance (FCO MIR)

Purpose. The purpose of this Stage is to develop FCO proficiency in conducting MIR.

FCO MIR Overview

FCO MULTI-SENSOR IMAGERY RECONNAISSANCE STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
MIR-4820	2.5	180	B,S,R,M	(N)	A	MIR PROFICIENCY

Instructor. Shall be instructed by a HHI.

Admin Notes. Upon completion of this the FCO MIR and CAS Stages, the FCO shall be considered qualified to conduct CAS and MIR using the Harvest HAWK system. A qualification letter by the commanding officer shall be placed in the FCO's NATOPS jacket.

The MIR-4820 event should be completed using support from a ground JTAC or FAC(A).

After initial MIR-4820 event completion, this event may be logged on any sortie in which the FCO operates the TSS.

MIR-4820 2.5 180 B,S, R,M (N) A 1 KC-130J HH

Goal. Develop proficiency in MIR.

Requirement

Initial event shall be conducted at night.

Discuss friendly marking techniques and sensor capabilities, ground convoy escort techniques, and counter-IED operations and route scans.

Review talk-on technique, use of GRG and KILSWITCH, communication brevity terms applicable to MIR and CAS, detection of enemy and friendly positions, friendly battle tracking, JTAC updates, and point, area, and route scanning.

Practice detection and recognition of friendly and enemy positions as directed by a JTAC, point, area, and route scan techniques emphasizing counter-IED operations, and the tracking of personnel and relaying relevant details to the JTAC.

Performance Standard

Detect and identify friendly and enemy positions as directed by a JTAC.
Track personnel and properly report activity to the JTAC.
Perform an effective sensor scan IVO friendly position as directed by a JTAC.
Conduct correct and concise communications.

Prerequisite. HH-4804.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

2.15.7 FCO Close Air Support (FCO CAS)

Purpose. The purpose of this Stage is to develop FCO proficiency in conducting CAS.

FCO CAS Overview

FCO CLOSE AIR SUPPORT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
CAS-4830	2.5	180	B,S,R,M	(N)	A	CAS
CAS-4840	2.5	*	B,S	(N)	A	URBAN CAS

Instructor. Shall be instructed by a HHI.

Admin Notes. Upon completion of this the FCO MIR and CAS Stages, the FCO shall be considered qualified to conduct MIR and CAS using the Harvest HAWK system. A qualification letter by the commanding officer shall be placed in the FCO's NATOPS jacket.

CAS-4830 event should be completed using support from a ground JTAC or FAC(A).

CAS-4840 shall be completed using support from a ground JTAC, an instructor on board the aircraft playing the role of the JTAC, or in support of a FAC(A).

CAS-4830 2.5 180 B,S, R,M (N) A 1 KC-130J HH

Goal. Refine CAS procedures.

Requirement

Discuss TCDL uplinks and downlinks, CAS stack management, battle damage assessment versus bomb high analysis, sensor nadir, and uncontrolled sensor slew.

Conduct CAS check in.

Three simulated Hellfire engagements shall be conducted using BOT techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques.

One engagement shall use manual target tracking through impact.

One engagement shall be conducted under type 3 control.

Review CAS and LASER terminology.

Performance Standard

Execute standard CAS procedures and CAS communications under the control of a JTAC/FAC(A) in accordance with JP 3-09.3.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

LASER aimpoint is established on the target prior to launch and maintained on track through simulated weapon impact (for BOT engagements).

For manual target tracking, maintain LASER aimpoint within 15 meters of the target through impact.

Prerequisite. BAS-4811.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

CAS-4840 2.5 * B,S (N) A 1 KC-130J HH

Goal. Introduce Urban CAS.

Requirement

Discuss urban CAS procedures, CAS and LASER terminology, MIR to CAS considerations, CDE considerations in the urban environment, CASEVAC procedures, and aural signature.

MIR to CAS operations shall be conducted in an urban operation.

Two simulated Hellfire engagements shall be conducted using BOT techniques.

Two simulated SOPGM engagements shall be conducted using BOT techniques.

Performance Standard

Execute standardized CAS procedures and CAS communications under the control of a JTAC in an urban environment in accordance with JP 3-09.3.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within assigned restrictions (within FAH and TOT +/- 30 seconds).

LASER aimpoint is established on the target prior to launch and maintained on track through simulated weapon impact (for BOT engagements).

Prerequisite. CAS-4830.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

2.15.8 Pilot Basic Air to Surface (BAS)

Purpose. This Stage focuses on employment of AGM-114P Hellfire and the SOPGM while continuing to develop proficiency in using the TacView display detect and recognize targets while building effective CRM in order to manage the flight crew.

BAS Overview

BASIC AIR SUPPORT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
BAS-4860	2.5	*	B,S	D	A	INTRO TO DAY WEAPONS
BAS-4861	2.5	*	B,S	D	A	DAY WEAPONS EMPL
BAS-4862	2.5	*	B,S	(N)	A	LIVE WEAPONS EMPL

Instructor. Shall be instructed by a HHI.

Admin Notes. Harvest HAWK aircraft commanders should complete the FCO syllabus prior to completing the Harvest HAWK pilot syllabus.

Proper CAS procedures (in accordance with JP 3-09.3) and communications should be practiced using instructor-generated attack briefs to initiate each engagement.

For the purposes of this Manual, Bomb on Target (BOT) engagements will consist of on-board generated coordinates based on target capture on the TSS followed by own-ship lasing through impact. Bomb on Coordinate (BOC) engagements will consist of using coordinates generated by actual or simulated TACP, coordinates generated on the aircraft using PSS-SOF, or simulated or actual off-board LASER for terminal guidance.

Crews are encouraged to use existing or self-developed gridded reference graphics or similar products during these training events.

For SOPGM training, a CATM may be used or the BMS may be operated in indoctrination mode.

BAS-4860 2.5 * B,S D A 1 KC-130J HH

Goal. Introduce day weapons employment.

Requirement

Discuss maneuvering the aircraft into appropriate attack geometry, sensor masking considerations, weapons malfunction emergency procedures, TOT management, airspace management, Hellfire engagements, SOPGM engagements, target correlation with the FCO, and mission abort.

Three simulated Hellfire engagements shall be conducted using BOT techniques.

One simulated Hellfire attack shall be conducted using BOC techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques.

One simulated SOPGM attack shall be conducted using BOC techniques.

Practice target correlation with the FCO, maneuvering the aircraft into appropriate attack geometry (CP), CAS procedures, and crew coordination.

Performance Standard

Establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Prerequisite. HH-4804.

BAS-4861 2.5 * B,S D A 1 KC-130J HH

Goal. Introduce day weapons employment.

Requirement

Discuss weaponeering, KILSWITCH/GRG use for correlation, buddy lase flight profiles, ground lase geometry and flight profile, danger close parameters and mitigation, CDE considerations, and CNI-MU entries to support attack geometry.

Three simulated Hellfire engagements shall be conducted using BOT techniques.

One simulated Hellfire attack shall be conducted using BOC techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques.

One simulated SOPGM attack shall be conducted using BOC techniques.

Practice target correlation with the FCO, CAS procedures, crew coordination, and maneuvering the aircraft into appropriate attack geometry.

Performance Standard

Demonstrate knowledge of sensor system capabilities and operation.

Establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Prerequisite. HH-4860.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. LASER-approved range.

BAS-4862 2.5 * B,S (N) A 1 KC-130J HH

Goal. Weapons employment, simulated or live.

Requirement

Discuss range procedures, night MIR considerations, target location error (TLE) and coordinate generation, and missile firing reports.

Generate three sets of coordinates for targets displayed on the sensor using PSS-SOF (AC).

Three simulated Hellfire engagements shall be conducted using BOT techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques.

One simulated SOPGM attack shall be conducted using BOC techniques.

Review CAS procedures, crew coordination, and weapon malfunction and emergency procedures.

Performance Standard

Demonstrate knowledge of sensor system capabilities and operation.

In conjunction with the cockpit crew, establish proper geometry for weapons employment.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Properly use PSS-SOF to generate coordinates and relay to the FCO within 1 minute of target correlation.

Prerequisite. BAS-4860.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. LASER, Hellfire, and SOPGM approved range.

2.15.9 Pilot Multi-sensor Imagery Reconnaissance (MIR)

Purpose. The purpose of this Stage is to develop pilot proficiency in conducting MIR.

MIR Overview

MULTI-SENSOR IMAGERY RECONNAISSANCE STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
MIR-4870	2.5	180	B,S,R,M	(N)	A	MIR PROFICIENCY

Instructor. Shall be instructed by a HHI.

Admin Notes. Upon completion of this Stage, aircraft commanders shall be considered qualified to conduct MIR using the Harvest HAWK system.

The MIR-4870 event should be completed using support from a ground JTAC.

MIR-4870 2.5 365 B,S,R,M (N) A 1 KC-130J HH

Goal. Develop proficiency in MIR.

Requirement

Initial event shall be conducted at night.

Discuss friendly marking techniques and sensor capabilities, ground convoy/patrol escort techniques, and counter-IED operations and route scans.

Practice detection and recognition of friendly and enemy positions as directed by a JTAC and maneuvering the aircraft to minimize sensor and LASER mask conditions (CP).

Performance Standard

Maintain situational awareness on sensor orientation and position.

In conjunction with the FCO, detect and recognize friendly and enemy positions as directed by a JTAC.

Conduct proper communications.

Prerequisite. HH-4804.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

2.15.10 Pilot Close Air Support (CAS)

Purpose. The purpose of this Stage is to develop pilot proficiency in conducting CAS.

CAS Overview

CLOSE AIR SUPPORT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
CAS-4880	2.5	180	B,S,R,M	(N)	A	CAS
CAS-4890	2.5	*	B,S	(N)	A	URBAN CAS

Instructor. Shall be instructed by a HHI.

Admin Notes. Upon completion of this Stage, aircraft commanders shall be considered qualified in MIR and CAS. A qualification letter from the commanding officer shall be placed in the pilot's NATOPS jacket.

Copilots that upgrade to aircraft commander must complete BAS-4862, MIR-4870, CAS-4890 as an aircraft commander prior to receiving qualification in CAS and MIR.

CAS-4880 should be completed using support from a ground JTAC.

CAS-4890 shall be completed using support from either a ground JTAC, an instructor on board the aircraft playing the role of the JTAC, or in support of a FAC(A).

CAS-4880 2.5 180 B,S,R,M (N) A 1 KC-130J HH

Goal. Refine CAS procedures.

Requirement

Discuss weaponeering, danger close considerations, buddy-lase considerations, CAS procedures, CAS and LASER terminology.

Monitor CAS check in from the FCO and copy SITREP.

Three simulated Hellfire engagements shall be conducted using BOT techniques.

Three simulated SOPGM engagements shall be conducted using BOT techniques.

One simulated engagement shall be conducted under type 3 control.

Practice CNI-MU entries to support attack geometry and maneuvering the aircraft into appropriate attack geometry.

Performance Standard

Execute standardized CAS procedures and CAS communications under the control of a JTAC in accordance with JP 3-09.3.

Establish proper geometry for weapons employment.

Ensure appropriate clearance is received prior to consenting to weapons release.

All weapons launches occur within weapon LAR and comply with assigned restrictions (within FAH and TOT +/- 30 seconds).

Prerequisite. BAS-4861.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

CAS-4890 2.5 * B,S (N) A 1 KC-130J HH

Goal. Introduce Urban CAS.

Requirement

Discuss CDE considerations, urban CAS procedures, CAS and LASER terminology, CDE considerations, and CASEVAC procedures.

Assist the FCO in target correlation (AC).

Two simulated Hellfire engagements shall be conducted using BOT techniques.

Two simulated SOPGM engagements shall be conducted using BOT techniques.

Practice maneuvering aircraft into appropriate attack geometry.

Demonstrate use of KILSWITCH/GRG.

Performance Standard

Execute standardized CAS procedures and CAS communications under the control of a JTAC in accordance with JP 3-09.3.

In conjunction with the FCO, establish proper geometry for weapons employment.

Ensure appropriate clearance is received prior to consenting to weapons release.

All weapons launches occur within assigned restrictions (within FAH and TOT +/- 30 seconds).

Prerequisite. CAS-4880.

Ordnance. 1 AGM-114P CATM and 1 SOPGM CATM.

Range Requirement. Suitable SUAS.

External Syllabus Support. TACP.

2.16 INSTRUCTOR TRAINING PHASE (5000)

Purpose. The purpose of this Phase is to train qualified pilots to instruct various levels of instruction.

General. The following Stages are included in the Instructor Training Phase of training.

Phase Overview

INSTRUCTOR TRAINING PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
BIP	2.17.2	2-59
ANI	2.17.3	2-60
FRSI	2.17.4	2-61
NSI	2.17.5	2-61
LATI	2.17.6	2-62
NSLATI	2.17.7	2-62
HHI	2.17.8	2-63
FLSE	2.17.9	2-63
DTI	2.17.10	2-64
SI	2.17.11	2-64
WTI	2.17.12	2-65
CI TRAINING	2.17.13	2-65

Admin Notes. Pilots shall be recommended for instructor training via the 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.

Standardization will be emphasized throughout instructor training.

Instructors under training (IUTs) shall have a minimum of 100 TPC hours in series to instruct. Instructors must be event proficient in order to instruct that specific event.

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. FRSIs shall conduct this training.

2.17 INSTRUCTOR TRAINING STAGES

2.17.1 Basic Instructor Pilot (BIP)

Purpose. To designate 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.

BIP Overview

BASIC INSTRUCTOR PILOT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
BIP-5100	2.0	*	B,S	D	A/S	BIP TRAINING
BIP-5101	2.0	*	B,S	D	A/S	BIP CHECK

Instructor. Shall be instructed by a LATI or NSI.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1 and supplements, and Air NTTP 3-22.3-KC130.

IUTs shall satisfactorily instruct an appropriate stage ASP or ground training syllabus which shall be observed by a LATI, NSI, or WTI.

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.

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

BIPs shall be designated in writing by the `commanding officer`.

BIP-5100 2.0 * B,S D A/S 1 KC-130J/WST

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 (a LATI) on long cord.

Performance Standard. The IUT shall successfully demonstrate the ability to instruct a TN sortie. The IUT should utilize mission planning software 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 proficient, AAR/ADGR Mission Skill proficient, NSQ(H), and LATQ.

Range Requirement. Appropriate SUAS or MTR scheduled.

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

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 (an NSI) 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 affect 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 one rendezvous will be demonstrated by the IUT as well as the IUT's ability to operate the AAR system correctly.

Prerequisite. BIP-5100.

External Syllabus Support. A minimum of 1 AAR-capable helicopter.

2.17.2 NATOPS Instructor (NI)

Purpose. Designate TPC as an ANI, NI, or NE.

NI Overview

NATOPS INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NI-5140	2.0	*	B,S	(N)	S/A	ANI TRAINING
NI-5141	2.0	365	B,S,R,M	(N)	S/A	ANI CHECK

Instructor. Shall be instructed by an ANI, NI, NE, or NATOPS Model Manager.

Admin Notes. Review NAVAIR 01-75GAJ-1 and supplements.

Upon completion of the ANI syllabus, the pilot shall be designated an ANI or NI by the commanding officer or designated a NE by the KC-130J NATOPS Model Manager. The pilot should also be designated a member of the Instrument Flight Board.

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

Goal. ANI training.

Requirement. Introduce the IUT to non-NS(H) NATOPS and instrument checkride procedures. Introduce the skills required to correct common pilot errors with the IUT in the right seat with an ANI in the left seat.

Performance Standard

Demonstrate familiarity with common pilot errors and instructional techniques.

Maintain proper defensive posturing to maintain safe flight.

Develop a script for a NATOPS/Instrument checkride sortie including precision and nonprecision instrument approaches, 0%, 50% and 100% flap landings, no-HUD approaches, and emergencies during all phases of flight.

Prerequisite. BIP-5101.

NI-5141 2.0 365 B,S, R,M (N) S/A 1 WST/KC-130J

Goal. ANI check.

Requirement. A NI/NE/NATOPS MM will evaluate (on long cord) the IUT administering a NATOPS checkride to another pilot in the left seat. Only the NATOPS Model Manager can give a checkride to an NE and an NE or the Model Manager can give a checkride to an NI.

Performance Standard. Demonstrate competencies established in NI-5140.

Prerequisite. NI-5140.

2.17.3 Fleet Replacement Squadron Instructor (FRSI)

Purpose. Designate the ANI as a FRSI.

FRSI Overview

FLEET REPLACEMENT SQUADRON INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FRSI-5145	2.0	*	B,S	(N)	S/A	FRSI TRAINING
FRSI-5146	2.0	*	B,S	(N)	S/A	FRSI TRAINING
FRSI-5147	2.0	*	B,S,R	(N)	A	FRSI CHECK

Instructor. Shall be instructed by FRSI.

Admin Notes. Review NAVAIR 01-75GAJ-1 and supplements.

Upon completion of the FRSI syllabus, the pilot shall be designated an FRSI by the commanding officer.

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

Goal. FRSI training.

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

Performance Standard

Demonstrate familiarity with common student errors and instructional techniques.

Maintain proper defensive posturing to maintain safe flight.

Demonstrate instructional proficiency in steep turns, power-off stalls, slow flight, side-slip recovery, one-engine inoperative scenarios, go-around with one-engine inoperative procedure, takeoff emergencies, and NAVAIR 01-75GAJ-1 memory items.

Prerequisite. NI-5141.

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

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 FCRM events.

Performance Standard. Demonstrate competencies established in FRSI-5145.

Prerequisite. FRSI-5145.

FRSI-5147 2.0 * B,S,R (N) A 1 WST/KC-130J

Goal. FRSI check.

Requirement. IUT shall conduct a Core Skill Introduction FCRM event with a student in the right seat and shall be evaluated by a FRSI on long cord. Upon completion of this event, the pilot shall be designated a FRSI by the commanding officer.

Performance Standard. Demonstrate competencies established in FRSI-5145.

Prerequisite. FRSI-5146.

2.17.4 Night Systems Instructor (NSI)

Purpose. Certify and designate the pilot as an NSI.

NSI Overview

NIGHT SYSTEMS INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NSI-5150	2.0	*	B,S,R	NS	A	NS(H) FAM IUT
NSI-5151	2.0	*	B,S,R	NS	A	NS(H) TN IUT
NSI-5152	2.0	*	B,S,R	NS	A	NSI CERTIFICATION

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the NSI shall be designated in writing by the commanding officer.

NS(H)-5150 2.0 * B,S,R NS A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

NS(H)-5151 2.0 * B,S,R NS A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

NS(H)-5152 2.0 * B,S,R NS A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.5 Low Altitude Tactics Instructor (LATI)

Purpose. Certify and designate the pilot as a LATI.

LATI Overview

LOW ALTITUDE TACTICS INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
LAT-5210	2.0	*	B,S,R	D	A	LAT IUT
LAT-5211	2.0	*	B,S,R	D	A	LAT IUT
LAT-5212	2.0	*	B,S,R	D	A	LATI CERTIFICATION

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification, the LATI shall be designated in writing by the commanding officer.

LAT-5210 2.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

LAT-5211 2.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

LAT-5212 2.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.6 Night Systems LAT Instructor (NSLATI)

Purpose. Certify and designate the pilot as an NSLATI.

NSLATI Overview

NIGHT SYSTEMS LOW ALTITUDE TACTICS INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NS(L)-5250	2.0	*	B,S,R	HLL	A	NSLAT IUT
NS(L)-5251	2.0	*	B,S,R	HLL	A	NSLATI CERTIFICATION

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the NSLATI shall be designated in writing by the commanding officer.

NS(L)-5250 2.0 * B,S,R HLL A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

NS(L)-5250 2.0 * B,S,R HLL A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.7 Harvest HAWK Instructor (HHI)

Purpose. Certify and designate the pilot as a HHI.

HHI Overview

HARVEST HAWK INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
HH-5310	3.0	*	B,S,R	(N)	A	HH IUT
HH-5311	3.0	*	B,S,R	(N)	A	HHI CERTIFICATION

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the HHI shall be designated in writing by the commanding officer.

HH-5310 3.0 * B,S,R (N) A 1 KC-130J HH

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

HH-5311 3.0 * B,S,R (N) A 1 KC-130J HH

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.8 Flight Leadership Standardization Evaluator (FLSE)

Purpose. Certify and designate the pilot as a FLSE.

FLSE Overview

FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FLSE-5320	3.0	*	B,S,R	(NS)	G	FLSE IUT
FLSE-5321	3.0	*	B,S,R	(NS)	A	FLSE CERTIFICATION
FLSE-5322	2.0	90	B,S,R,M		G	FLSE QUARTERLY TRNG

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification by the FLSE PC or MM, the FLSE shall be designated in writing by the group commanding officer.

FLSE-5320 3.0 * B,S,R (NS) G 2+ KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

FLSE-5321 3.0 * B,S,R (NS) A 2+ KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

FLSE-5322 2.0 90 B,S,R,M G

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.9 Defensive Tactics Instructor (DTI)

Purpose. Certify and designate the pilot as a DTI.

DTI Overview

DEFENSIVE TACTICS INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
DT-5410	1.0	*	B,S,R	D	A	DT IUT
DT-5411	1.0	*	B,S,R	D	A	DT IUT
DT-5412	2.0	*	B,S,R	D	A	DTI CERTIFICATION

Instructor. Refer to the MAWTS-1 KC-130J Course Catalog.

Admin Notes. Refer to NAVMC 3500.14 and the MAWTS-1 KC-130J Course Catalog. Upon certification by MAWTS-1, the DTI shall be designated in writing by the commanding officer.

DT-5410 1.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

DT-5411 1.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

DT-5412 2.0 * B,S,R D A 1 KC-130J

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

2.17.10 Stage Instructor (SI)

Purpose. Designate the pilot as an Assault Landing Zone or Air Delivery Stage Instructor pilot (ALZI or ADI). Stage instructors may instruct in specifically-designated Mission Skill and Mission Plus Skill areas.

SI Overview

STAGE INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
ALZ-5500	2.0	*	B	NS	A	ALZI CHECK
AD-5700	2.0	*	B,S	(NS)	S/A	ADI IUT
AD-5701	2.0	*	B,S	(NS)	A	ADI CHECK

Instructor. Shall be instructed an ALZI and NSI, ALZI and ANI, or WTI or an ADI, as depicted for events.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog and review MAWTS-1 ASPs, NAVAIR 01-75GAJ-1, NAVAIR 01-75GAJ-1.1, and Air NTTP 3-22.3-KC130.

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

Instructors may only instruct the Stage in which they are designated and for events in which they are proficient.

ALZIs and ADIs shall be designated in writing by the commanding officer.

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

Goal. ALZ stage instructor check.

Requirement. Instruct NS ALZ procedures in the Mission Skill Phase. The sortie shall be instructed by either an

ALZI and NSI, ALZI and ANI, or WTI. The IUT shall 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 and 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 three max effort touch and go landings, one adjusted max effort takeoff, and one max effort full stop.

Prerequisite. ALZ Mission Skill complete, and designated an ANI or NSI.

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

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.

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 mission planning software and manual CARP calculations. The IUT should also discuss CNI-MU CARP pages, checklists, DZ markings, HUD symbology, and emergency procedures.

Prerequisite. AD Mission Skill complete (3700 through 3705), AD-4701, BI-4710, and BIP.

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

AD-5701 2.0 * B,S (NS) A 1 KC-130J

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 low level static line personnel drop. The sortie shall be instructed by a proficient ADI 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 mission planning software and manual CARP calculations. The IUT should also discuss CNI-MU CARP pages, checklists, DZ markings, HUD symbology, emergency procedures, and MFF planning considerations.

Prerequisite. AD-5700.

External Syllabus Support. Drop zone and AD support.

2.17.12 Weapons and Tactics Instructor (WTI)

Purpose. Develop and certify highly qualified pilots to serve as the unit training officer, to become the unit SME for mission planning, briefing and debriefing, and be responsible for planning and integrating with the MAGTF and Joint Forces. This is accomplished through successful completion of the Weapons and Tactics Course, held bi-annually by MAWTS-1.

Admin Notes. WTI academics and events will be per the MAWTS-1 WTI Course Catalog.

Tactics and techniques will be taught per Air NTTP 3-22.3-KC130 and the MAWTS-1 supplements.

Upon graduation from WTI and certification by the MAWTS-1 Commanding Officer, the WTI shall be designated in writing by the commanding officer.

2.17.11 Contract Instructor (CI)

Purpose. The purpose of this Stage of training is to designate contract simulator instructors for various levels of instruction. Contract Instructors may instruct in specifically-designated areas.

CI Overview

CONTRACT INSTRUCTOR STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NI-5142	2.0	*	CI	(N)	S	CI NI TRAINING
NI-5143	2.0	365	CI	(N)	S	CI NI CHECK
NS(H)-5153	2.0	*	CI	NS	S	NS(H) IUT
NS(H)-5154	2.0	*	CI	NS	S	CI NSI CERT
LRN-5160	4.0	*	CI	(N)	S	CI LRNI CHECK
TN-5200	4.0	*	CI	D	S	CI TNI CHECK
LAT-5213	4.0	*	CI	D	S	CI LAT IUT
LAT-5214	4.0	*	CI	D	S	CI LATI CERT
FORM-5300	4.0	*	CI	D	S	CI FORMI CHECK
TR-5400	4.0	*	CI	D	S	CI IR TRI CHECK
ALZ-5501	4.0	*	CI	(NS)	S	CI ALZI CHECK
AAR-5600	4.0	*	CI	(NS)	S	CI AARI CHECK
AD-5702	4.0	*	CI	(NS)	S	CI ADI CHECK

Instructor. Shall be instructed as delineated for each event by a pilot instructor from the appropriate Stage.

Admin Notes. Utilize academic courseware as outlined in the MAWTS-1 KC-130J Course Catalog. Review NAVAIR 01-75GAJ-1 and supplements, Air NTTP 3-22.3-KC130, and appropriate CBT modules.

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

Observe the instruction of ground training.
Be evaluated while instructing ground training.
Observe the instruction of a stage event.
Be evaluated while instructing the stage event.

IUTs shall satisfactorily instruct the appropriate ground training syllabus while being observed by a current pilot Stage instructor.

Previously designated KC-130J pilot Stage instructors are not required to perform the first two steps of the process above for the stages that they were previously designated 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.

For Stages that have multiple events, the IUT is not required to instruct every event, but must demonstrate the knowledge to instruct all aspects of the Stage.

CIs who were not previously designated KC-130J Stage instructors shall not be considered for Stage instructor training until they have demonstrated aircraft systems and procedures familiarity.

CIs shall be designated in writing at the discretion of the FRD Commanding Officer or squadron commanding officer for the local WST.

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

Goal. CI NATOPS Instructor training.

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

Performance Standard. Satisfactory completion of events per NAVAIR 01-75GAJ-1, NAVAIR 00-80T-112, FAR/AIM, and OPNAVINST 3710.7.

Prerequisite. NATOPS Model Manager approval.

NI-5143 2.0 365 CI (N) S 1 WST

Goal. CI NATOPS Instructor check.

Requirement. Instructor will observe while IUT conducts a NATOPS checkride. The flight will be observed by the NATOPS Model Manager/NE/NI.

Performance Standard. Satisfactory completion of events per NAVAIR 01-75GAJ-1, NAVAIR 00-80T-112, FAR/AIM, and OPNAVINST 3710.7.

Prerequisite. NI-5142.

NS(H)-5153 2.0 * CI NS S 1 WST

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

NS(H)-5154 2.0 * CI NS S 1 WST

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

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

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.

TN-5200 4.0 * CI D S 1 WST

Goal. CI TN 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 BIP.

Performance Standard

Successfully demonstrate the ability to instruct a low level time navigation sortie.

The IUT should utilize mission planning software 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 BIP while instructing KC-130 ASP LAT III, KC-130 ASP LAT IV, time navigation principles, and mission planning software ground training.

LAT-5213 2.0 * CI D S 1 WST

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

LAT-5214 2.0 * CI D S 1 WST

Refer to the MAWTS-1 KC-130J Course Catalog for specific event information.

FORM-5300 4.0 * CI D S 1 WST

Goal. CI FORM instructor check.

Requirement. Instruct formation procedures. Demonstrate ability to correct common student errors. The IUT will instruct from the IOS. The IUT shall be evaluated by a SL.

Performance Standard

The IUT shall successfully demonstrate the ability to instruct a day formation flight.

At a minimum, the IUT shall discuss all formation positions, turns into and away, underrun and overrun procedures, visual checkpoints, closure rate estimation, and formation emergency procedures.

Prerequisite. Must be evaluated by a SL, while instructing formation procedures ground training.

TR-5400 4.0 * CI D S 1 WST

Goal. CI IR TR instructor check.

Requirement. Instruct ALE-47 setup, AAR-47 setup, ALQ-157 operation, HUD/HDD symbology, and threat reaction. Discuss IR seeker head capabilities and limitations, threat reaction ICS calls, AAR-47 limitations, and flare "cocktail." Threat reaction maneuvering should include the takeoff, cruise, and approach phases of flight.

Performance Standard

The IUT shall successfully demonstrate the ability to instruct IR TR.

At a minimum, the IUT shall discuss ALQ-157, ALE-47 and AAR-47 interaction, AAR-47 HUD and HDD symbology, and appropriate threat calls and maneuvers for various flight regimes.

Prerequisite. IUT must be evaluated by a LATI while instructing ASE Introduction, KC-130 ASP LAT I, and KC-130 ASP LAT II.

ALZ-5501 4.0 * CI (NS) S 1 WST

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 an 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 an ALZI while instructing KC-130 ASP Assault Landing Zone Operations and max effort TOLD ground training.

AAR-5600 4.0 * CI (NS) S 1 WST

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 TAAR. The IUT will instruct from the IOS. The IUT shall be evaluated by a BIP.

Performance Standard

The IUT shall successfully demonstrate the ability to instruct a HAAR.

The IUT should discuss various tools used to affect the rendezvous (such as radar, A/A TACAN, and TCAS).

The IUT will demonstrate the ability to operate the refueling system.

Prerequisite. Must be evaluated by a BIP while instructing KC-130 ASP Tactical Air-to-Air Refueling and AAR planning ground training.

AD-5702 4.0 * CI (NS) S 1 WST

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 low level static line personnel drop. The sortie shall be evaluated by an ADI.

Performance Standard. The IUT shall ensure students demonstrate the ability to plan and execute an air delivery including slow-down calculations, CARP calculations using mission planning software, manual CARP calculations, and proper checklist procedures. The IUT will instruct from the IOS.

Prerequisite. IUT must be evaluated by an ADI or WTI while instructing KC-130 ASP Tactical Air Delivery and mission planning software AD mission planning ground training.

2.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE(6000)

Purpose. The purpose of this Phase is to provide a vehicle for tracking events associated with certifications, qualifications, and designations.

General. The following Stages are included in the Requirements, Certifications, Qualifications, Designations Phase of training.

Phase Overview

REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS PHASE		
STAGE	**PARAGRAPH**	**PAGE NUMBER**
FCP	2.19.1	2-69
NTPS	2.19.2	2-70
INST	2.19.3	2-72
SL	2.19.4	2-73
DL	2.19.5	2-75
RAC	2.19.6	2-76

Admin Notes. Once the flight to attain the qualification or designation is complete, a letter from the commanding officer shall be placed in the individual's NATOPS jacket before that qualification/designation can be utilized.

2.19 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS STAGES

2.19.1 Functional Check Pilot (FCP)

Purpose. Designate the TPC as a FCP.

FCP Overview

FCP STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
FCP-6105	4.0	365	B,S,R,M	D	A/S	PARTIAL FCP CERT/PROF
FCP-6106	4.0	*	B,S	D	A	FCP CERT

Instructor. Shall be instructed by a FCP or CI.

Admin Notes. FCPs shall be designated in writing by the commanding officer.

FCP-6105 shall be logged as the Maintain code tracking all Functional Check Flight (FCF) events, full or partial.

TPCs must have 150 TPC hours in series and a minimum of three FCFs (two "A" Profiles) to be eligible for FCP. There is no minimum hour requirement for a TPC to be designated a partial FCP.

FCP-6105 4.0 365 B,S,R,M D A/S 1 KC-130J/WST

Goal. Partial FCP evaluation and FCP proficiency.

Requirement. The flight shall consist of a "B" profile FCF and be instructed by a FCP or CI. Upon completion of this code, the pilot will be qualified to conduct B-D card FCFs.

Performance Standard. Satisfactorily execute procedures per NAVAIR 01-75GAJ-1, OPNAVINST 3710.7, and OPNAVINST 4790.2.

Prerequisite. FCP exam, 6118, and APRB recommendation.

FCP-6106 4.0 * B,S D A 1 KC-130J

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-D card FCFs.

Performance Standard. Satisfactorily execute procedures per NAVAIR 01-75GAJ-1, OPNAVINST 3710.7, and

OPNAVINST 4790.2.

Prerequisite. FCP-6105, three total FCFs (with two "A" profiles, one in the aircraft), 150 KC-130J TPC hours, and APRB recommendation.

2.19.2 KC-130J NATOPS Evaluation (NTPS)

Purpose. The purpose of this Stage is to evaluate the pilot's knowledge of aircraft systems, performance limitations, emergency procedures, and flight and ground operations for NATOPS qualification.

NTPS Overview

NATOPS STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NTPS-6110	2.0	365	B,S,R,M	(N)	A/S	T3P NATOPS QUAL
NTPS-6111	2.0	365	B,S,R,M	(N)	S/A	T2P NATOPS QUAL
NTPS-6112	3.0	*	B,S	(N)	S	TPC UPGRADE SIM
NTPS-6113	3.0	*	B,S	(N)	S	TPC UPGRADE SIM
NTPS-6114	3.0	*	B,S	(N)	S	TPC UPGRADE SIM
NTPS-6115	3.0	*	B,S	(N)	S	TPC UPGRADE SIM
NTPS-6116	3.0	*	B,S	(N)	S	TPC UPGRADE SIM
NTPS-6117	18.0	*	B,S	(N)	A	TPC ROUTE CHECK
NTPS-6118	2.0	365	B,S,R,M	(N)	A/S	TPC NATOPS QUAL
NTPS-6120	1.0	90	B,S,R,M	(N)	S/A	EP REVIEW

Instructor. Shall be instructed by an ANI or CI NI or CI (NTPS-6112-6116,6120). Initial T3P checkrides shall be completed by a FRSI. Subsequent T3P checkrides may be instructed by an ANI (simulator: CI NI).

Admin Notes. The NATOPS Evaluator/Instructor shall utilize the NATOPS Model Manager-generated NATOPS evaluation form and the NATOPS evaluation metrics required for the accomplishment and performance of the standardized criteria to determine whether the pilot is considered "Qualified." Prior to the oral examination, the NATOPS Evaluator/Instructor shall review the evaluee's NATOPS monthly emergency procedures examinations and quarterly simulator/cockpit drills located in the APR for the previous twelve months and previous NATOPSevaluations. 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.

At the discretion of the commanding officer, a letter designating the pilot as NATOPS qualified shall be placed in the individual's NATOPS jacket.

NATOPS evaluees without a current NATOPS check shall fly as an unqualified pilot with a FRSI.

NTPS-6110 2.0 365 B,S,R,M (N) A/S 1 KC-130J/WST

Goal. Complete Transport Third Pilot (T3P) NATOPS flight evaluation. Conduct an objective evaluation of the pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures, not tactical execution. Emphasize 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 pilot's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. The NATOPS evaluation process should be as much a learning tool and/or experience as it is an evaluation.

Requirement. Conduct NTPS-6110 evaluation flight. Demonstrate comprehensive knowledge and understanding of NATOPS, squadron SOP, and local course rules. Initial T3P qualification shall be conducted in the aircraft with a FRSI.

Performance Standard. Executes flight and ground operations safely and in accordance with NAVAIR 01-75GAJ-1 standards.

Prerequisite. FCRM-1804.

NTPS-6111 2.0 365 B,S,R,M (N) S/A 1 WST/KC-130J

Goal. Complete Transport Second Pilot (T2P) NATOPS flight evaluation. Conduct an objective evaluation of the pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures, not tactical execution. Emphasize 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 pilot's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. The NATOPS evaluation process should be as much a learning tool and/or experience as it is an evaluation.

Requirement. Conduct NTPS-6111 evaluation flight. Demonstrate comprehensive knowledge and understanding of NATOPS, squadron SOP, and local course rules.

Performance Standard. Executes flight and ground operations safely and in accordance with NAVAIR 01-75GAJ-1 standards.

Prerequisite. Shall be Core Skill Phase complete, should be Mission Skill Phase Complete, ACPM-82XX Phase complete, APRB recommendation, NTPS-6110, T2P Open Book Tactics Examination (not required for subsequent evaluations.

NTPS-6112 3.0 * B,S (N) S 1 WST

Goal. Prepare T2P for upgrade to Transport Plane Commander (TPC).

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per NAVAIR 01-75GAJ-1 and NAVAIR 00-80T-112.

Prerequisite. NTPS-6111 and APRB recommendation.

NTPS-6113 3.0 * B,S (N) S 1 WST

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per NAVAIR 01-75GAJ-1 and NAVAIR 00-80T-112.

Prerequisite. NTPS-6112.

NTPS-6114 3.0 * B,S (N) S 1 WST

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per NAVAIR 01-75GAJ-1 and NAVAIR 00-80T-112.

Prerequisite. NTPS-6113.

NTPS-6115 3.0 * B,S (N) S 1 WST

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per NAVAIR 01-75GAJ-1 and NAVAIR 00-80T-112.

Prerequisite. NTPS-6114.

NTPS-6116 3.0 * B,S (N) S 1 WST

Goal. Prepare T2P for upgrade to TPC.

Requirement. Review NATOPS normal, emergency, and instrument procedures.

Performance Standard. Per NAVAIR 01-75GAJ-1 and NAVAIR 00-80T-112.

Prerequisite. NTPS-6115.

NTPS-6117 18.0 * B,S (N) A 1 KC-130J

Goal. TPC route check.

Requirement. The pilot will demonstrate the ability to manage all aspects of an extended mission. Evaluation should be a long range mission involving cargo handling, international flight procedures, route planning, and aircrew management. This flight should involve multiple legs with RON.

Performance Standard. Per NAVAIR 01-75GAJ-1, FLIP, FCG and published SOPs.

Prerequisite. NTPS-6111 and should be completed following NTPS-6116.

External Syllabus Support. RON airfields.

NTPS-6118 2.0 365 B,S,R,M (N) A/S 1 KC-130J/WST

Goal. Complete TPC NATOPS flight evaluation. Conduct an objective evaluation of the pilot's knowledge of mission planning, normal operating procedures (flight and ground), crew resource management, aircraft systems, performance criteria, emergency procedures, and debriefing. The focus is on normal and emergency procedures, not tactical execution. Emphasize 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 pilot's efficiency in the execution of normal operating procedures and reaction to emergencies and malfunctions. The NATOPS evaluation process should be as much a learning tool and/or experience as it is an evaluation. 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 and in accordance with NAVAIR 01-75GAJ-1 standards.

Executes flight leadership expected of a Transport Plane Commander.

Prerequisite. NSQ(H), currency/flight time per NAVAIR 01-75GAJ-1, and the specific requirements for TPC designation per OPNAVINST 3710.7. Core Skill Phase and Mission Skill Phase complete, ACPM-83XX Phase complete, NTPS-6116, and NTPS-6117. NTPS-6116 or NTPS-6120 should be completed within the 30 days prior to NTPS-6118.

NTPS-6120 1.0 90 B,S,R,M (N) S/A 1 WST/KC-130J

Goal. Conduct emergency procedures review in accordance with NAVMC 3500.14.

Requirement. This event will review KC-130J emergency procedures and fulfills the requirement of quarterly EP simulator training. In the event the simulator is unavailable, the EP review may be conducted in the aircraft as a static event. The event shall be instructed by a CI or ANI.

Performance Standard. Comply with NAVAIR 01-75GAJ-1.

2.19.3 Instrument Evaluation (INST)

Purpose. Evaluate the pilot's knowledge and application of instrument procedures and techniques in order to qualify for an instrument rating.

INST Overview

INSTRUMENT STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
NTPS-6130	2.0	365	B,S,R,M	(N)	S/A	STANDARD INST CHECK
NTPS-6131	2.0	365	B,S,R,M	(N)	S/A	SPECIAL INST CHECK

Instructor. Shall be instructed by an ANI Instrument Flight Board member (simulator: CI NI).

Admin Notes. General policy, requirements, and prerequisites concerning instrument evaluations are contained in OPNAVINST 3710.7.

INST-6130 2.0 365 B,S,R,M (N) S/A 1 WST/KC-130J

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."

Requirement. Conduct an objective evaluation of the pilot's planning, instrument filing, airwork under simulated or actual instrument conditions, and emergency procedures for a standard instrument rating per OPNAVINST 3710.7.

Performance Standard. Executes flight and ground operations safely in accordance with OPNAVINST 3710.7, NAVAIR 01-75GAJ-1, and NAVAIR 00-80T-112.

Prerequisite. IGS, instrument written exam, instrument oral exam, and minimum experience per OPNAVINST 3710.7.

INST-6131 2.0 365 B,S,R,M (N) S/A 1 WST/KC-130J

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."

Requirement. Conduct an objective evaluation of the pilot's planning, instrument filing, airwork under simulated or actual instrument conditions, and emergency procedures for a standard instrument rating per OPNAVINST 3710.7.

Performance Standard. Executes flight and ground operations safely in accordance with OPNAV 3710.7, NAVAIR 01-75GAJ-1, and NAVAIR 00-80T-112.

Prerequisite. IGS, instrument written exam, instrument oral exam, and minimum experience per OPNAVINST 3710.7.

2.19.4 Section Leader (SL)

Purpose. Certify the pilot for designation as a section lead.

SL Overview

SECTION LEADER STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
SL-6300	3.0	*	B	(NS)	A	SL PRACTICE
SL-6301	3.0	*	B,S	(NS)	A	SL CERT
SL-6302	2.0	365	B,S,R,M	(NS)	A	SL PROFICIENCY

Instructor. Shall be instructed by a SL and certified by FLSE.

Admin Notes. All requirements delineated in the matrix below shall be completed and tracked prior to the SL certification event.

One flight should be flown at night and one flight shall be flown in conjunction with a tactical mission.

Upon completion of the certification flight, pilots shall also log the proficiency code in order to track event proficiency.

Upon certification, the SL shall be designated in writing by the commanding officer.

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 FWAAR Formation		
ANTTP 3-22.3-KC-130 CH 2 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 3 Formation		
ANTTP 3-22.3-KC-130 CH 8 Formation Air Delivery		
ATP-3.3.4.2 Safety Procedures		
ATP-3.3.4.2 CH 2 FWAAR Procedures		
ATP-3.3.4.2 CH 3 HAAR Procedures		
ATP-3.3.4.2 CH 4 TAAR 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/Tactical Positions		
Underrun/Overrun		
Crossunder		
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 (NS) A 2 KC-130J

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 Standard

Produce a flight leader section form card.

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.

Conduct a mission brief and debrief in accordance with Air NTTP 3-22.5-KC130.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130, and OPNAVINST 3710.7.

Prerequisite. FORM-2300, FORM-2301, FORM-2350, Mission Skill Phase complete, TN-4200, BIP, two flights as a TPC/wingman, APRB recommendation, and SL Academics complete.

Range Requirement. Appropriate SUAS scheduled.

SL-6301 3.0 * B,S (NS) A 2 KC-130J

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 Standard

Produce a flight leader section form card.

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.

Conduct a mission brief and debrief in accordance with Air NTTP 3-22.5-KC130.

Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130, and OPNAVINST 3710.7.

Prerequisite. SL-6300, ACPM-8630, and ACPM-8660.

Range Requirement. Appropriate SUAS scheduled.

SL-6302 2.0 365 B,S,R,M (NS) A 2 KC-130J

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 standard for that event.

Prerequisite. SL-6301.

2.19.5 Division Leader (DL)

Purpose. Certify the pilot for designation as a division lead.

DL Overview

DIVISION LEADER STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
DL-6303	3.0	*	B	(NS)	A	DL PRACTICE
DL-6304	3.0	*	B,S	(NS)	A	DL CERT
DL-6305	2.0	365	B,S,R,M	(NS)	A	DL PROFICIENCY

Instructor. Shall be instructed by a division lead and certified by a FLSE.

Admin Notes. All requirements delineated in the matrix below shall be completed prior to the DL certification event.

For prospective DLs, 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.

Upon completion of the certification flight, pilots shall also log the proficiency code in order to track event proficiency.

Upon certification, the DL shall be designated in writing by the commanding officer.

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 FWAAR Formation		
ANTTP 3-22.3-KC-130 CH 2 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 3 Formation		
ANTTP 3-22.3-KC-130 CH 8 Formation Air Delivery		
ATP-3.3.4.2 Safety Procedures		
ATP-3.3.4.2 CH 2 FWAAR Procedures		
ATP-3.3.4.2 CH 3 HAAR Procedures		
ATP-3.3.4.2 CH 4 TAAR 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		
ADMINISTRATIVE FLIGHT REQUIREMENTS		
Formation Start, Taxi, Run-Up		
Division Takeoff		

Division Rendezvous		
Cruise/Tactical Positions		
Underrun/Overrun		
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 (NS) A 3+ KC-130J

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 Standard

Produce a flight leader division form card.
Plan and lead a division profile including turns into and away, crossunders, underruns, overruns, overhead breaks, and inadvertent weather penetration procedures.
Conduct a mission brief and debrief in accordance with Air NTTP 3-22.5-KC130.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1, Air NTTP 3-22.3-KC130, and OPNAVINST 3710.7.

Prerequisite. 200 flight hours as a qualified TPC, two flights as a designated SL, APRB recommendation, and DL Academics complete.

Range Requirement. Appropriate SUAS scheduled.

DL-6304 3.0 * B,S (NS) A 3+ KC-130J

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 OPNAVINST 3710.7. This flight should be conducted during an AAR mission at night.

Performance Standard

Produce a flight leader division form card.
Plan and lead a division air-to-air refueling profile and produce all essential mission products.
Conduct a mission debrief in accordance with Air NTTP 3-22.5-KC130.
Satisfactory completion of the maneuvers and procedures per NAVAIR 01-75GAJ-1, KC-130 ANTT,P and OPNAVINST 3710.7.

Prerequisite. DL-6303, ACPM-8620, ACPM-8640 and ACPM-8641.

Range Requirement. Appropriate SUAS scheduled.

DL-6305 2.0 365 B,S,R,M (NS) A 3+ KC-130J

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 Standard for that event.

Prerequisite. DL-6304.

2.19.6 Refueling Area Commander (RAC)

Purpose. To certify the pilot for designation as a Tactical Refueling Area Commander (TACRAC) and Strategic Area Refueling Commander (STRATRAC). Upon completion of this Stage, the pilot will be capable of assuming the responsibilities of a STRATRAC during a long range FWAAR, TAAR, or HAAR operation during day or night.

A TACRAC is capable of planning and conducting multi-tanker air-to-air refueling missions, either on a static orbit or involving the long range ferry of receiver aircraft with viable receiver diverts. A viable divert is considered less than one hour for receiver aircraft from the planned route, but can be waived to two hours at the commanding officer's discretion.

A STRATRAC is capable of planning and leading a long range ferry of tactical aircraft involving air-to-air refueling from a single or multiple KC-130s without viable diverts. A viable divert is considered less than one hour for receiver aircraft from the planned route, but can be waived to two hours at the commanding officer's discretion. A detailed knowledge of both tanker and receiver fuel management, altitude reservations (ALTRV) scheduling facilities coordination, long-range navigation techniques, weather avoidance, and international flight operations is required. Commanders should select only the most skilled and experienced aircraft commanders for this designation.

RAC Overview

REFUELING AREA COMMANDER STAGE						
EVENT	**TIME**	**PROFICIENCY PERIOD**	**POI**	**COND**	**DEVICE**	**DESCRIPTION**
RAC-6310	3.0	*	B,S	(NS)	A	INTRO TO TACRAC
RAC-6311	3.0	*	B,S	(NS)	A	TACRAC CERT
RAC-6312	2.0	365	B,S,R,M	(NS)	A	TACRAC PROFICIENCY
RAC-6313	6.0	*	B,S	(NS)	A	STRATRAC CERT
RAC-6314	6.0	540	B,S,R,M	(NS)	A	STRATRAC PROFICIENCY

Instructor. Shall be instructed by a TACRAC and certified by a TACRAC FLSE (TACRAC) and instructed by a STRATRAC FLSE (STRATRAC).

Admin Notes. All requirements delineated in the respective matrices below shall be completed prior to the TACRAC and STRATRAC certification events.

TACRAC training should be conducted in coordination with, or shortly after SL training.

One initial TACRAC event should be completed as part of an en route AAR evolution.

Upon completion of the evaluation flight pilots shall also log the proficiency code in order to track event proficiency.

Upon certification, the TACRAC and STRATRAC shall be designated in writing by the commanding officer.

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 FWAAR/TAAR Formation		
ANTTP 3-22.3-KC-130 CH 2 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 3 Formation		
ATP-3.3.4.2 Safety Procedures		
ATP-3.3.4.2 CH 2 FWAAR Procedures		
ATP-3.3.4.2 CH 3 HAAR Procedures		
ATP-3.3.4.2 CH 4 TAAR Procedures		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Air-to-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: Tanker Aborts/Tanker RIP		

Emergency AAR Procedures		
ADMINISTRATIVE FLIGHT REQUIREMENTS	DATE COMP	INSTRUCTOR
OPARS		
ALTRV Procedures		
Radio Management/Voice Procedures		

RAC-6310 3.0 * B,S (NS) A 2+ KC-130J

Goal. Intro to TACRAC.

Requirement. Conduct FWAAR, TAAR, or HAAR mission planning requirements using mission planning software and receiver aircraft considerations. Discuss and introduce refueling formation options, rendezvous procedures, radio procedures, EMCON, NAVAID/radar/TCAS procedures, tanker and receiver management, and emergency procedures related to AAR. The event should be conducted from the last tanker position on a static or en route multi-tanker AAR mission. The event should be conducted during the day and is intended to serve as TACRAC work-up; however, it may be completed by a T2P and without APRB recommendation. A TACRAC shall instruct the event.

Performance Standard

Produce a multi-tanker AAR briefing card, CFPS-generated route with orbit and appropriate fuel offload for the tanker formation, and an appropriate refueling track using either FalconView or a paper chart.

Coordinate and schedule AAR airspace.

Perform all radio communications between tanker and receiver formations.

Determine the receiver's location prior to the ARCT with either the LPCR, TCAS, or A/A TACAN.

Manage fuel offload of tanker aircraft according to mission planning, brief, economy, and bingo considerations.

Manage receiver fueling according to mission planning, brief, and divert considerations.

Satisfactory completion of the maneuvers and procedures per the ATP-3.3.4.2 and Air NTTP 3-22.3-KC130.

Prerequisite. AAR-3600, AAR-3650, and NTPS-6111.

Range Requirement. Appropriate SUAS scheduled.

External Support. Receiver aircraft.

RAC-6311 3.0 * B,S (NS) A 2+ KC-130J

Goal. TACRAC evaluation/certification.

Requirement. Brief, conduct, and control on a static or an en route multi-tanker AAR mission (with viable receiver diverts). Discuss responsibilities of a TACRAC, with focus on refueling formation integrity, receiver management, and fuel management for the entire flight. This flight shall be evaluated by a TACRAC FLSE.

Performance Standard

Produce a multi-tanker AAR briefing card, CFPS-generated route with orbit and appropriate fuel offload for the tanker formation, and an appropriate refueling track using either mission planning software or a paper chart.

Coordinate and schedule AAR airspace.

Conduct a RAC brief with all tanker formation aircrew.

Determine the receiver's location and establish tankers in the proper/briefed formation at the ARCP at the ARCT.

Perform all radio communications between tanker and receiver formations.

Manage fuel offload of tanker aircraft according to mission planning, brief, economy, and bingo considerations.

Manage receiver fueling according to mission planning, brief, and divert considerations.

Satisfactory completion of the maneuvers and procedures per the ATP-3.3.4.2 and Air NTTP 3-22.3-KC130.

Prerequisite. RAC-6310, 6118, Designated SL (may be conducted in conjunction with SL-6301), APRB recommendation.

Range Requirement. Appropriate SUAS scheduled.

External Support. Receiver aircraft.

RAC-6312 2.0 365 B,S,R,M (NS) A 2+ KC-130J

Goal. TACRAC proficiency.

Requirement. To maintain proficiency as a TACRAC the pilot shall plan and execute an AAR mission requiring the flight leadership of a TACRAC.

Prerequisite. RAC-6311.

STRATEGIC REFUELING AREA COMMANDER MATRIX

SELF PACED READINGS		DATE COMP
ANTTP 3-22.3-KC-130 CH 2 FWAAR/TAAR Formation		
ANTTP 3-22.3-KC-130 CH 2 HAAR Formation		
ANTTP 3-22.3-KC-130 CH 3 Formation		
ATP-3.3.4.2 Safety Procedures		
ATP-3.3.4.2 CH 2 FWAAR Procedures		
ATP-3.3.4.2 CH 3 HAAR Procedures		
ATP-3.3.4.2 CH 4 TAAR Procedures		
BRIEFING/CHALK TALK REQUIREMENTS	DATE COMP	INSTRUCTOR
Air-to-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 AAR Procedures		
ADMINISTRATIVE FLIGHT REQUIREMENTS	DATE COMP	INSTRUCTOR
OPARS		
ALTRV Procedures		
Radio Management/Voice Procedures		
International Flight Operations		

RAC-6313 6.0 * B,S (NS) A 1+ KC-130J

Goal. STRATRAC certification.

Requirement. Conduct long range FWAAR, TAAR, or HAAR mission planning requirements using mission planning software and receiver aircraft considerations. Discuss and introduce coordination of long range movements, movement control, ALTRVs, hose factor, contingency planning, RAC functions, and rendezvous control. Review radio procedures, NAVAID/radar/TCAS procedures, tanker and receiver management, weather avoidance, and emergency procedures related to AAR. Demonstrate FWAAR, TAAR, and HAAR rendezvous planning knowledge. The student will be expected to be a subject matter expert on long range AAR planning upon attainment of this training evolution. This event may be completed utilizing a simulated “no divert” scenario.

Performance Standard

Coordinate overall movement control planning effort to include ORM analysis, ALTRV scheduling facilities and requirements, routing, tanker plan, logistics, and divert contingencies.

Prepare and distribute flight planning products to all applicable tanker and receiver formation participants, including tanker plan, flight/route planning data, and IMC penetration plan.

Conduct a formal movement briefing for all tanker and receiver formation participants. Include: route, go/no go criteria, tanker and receiver rendezvous, refueling area, tanker plan, abort/bingo/ETP locations and criteria, communication, IMC penetration plan, bump plan, divert contingencies, and logistics.

Rendezvous tanker(s) with receiver formation as planned and briefed with due consideration given to changes in forecast weather, fuel planning, and safety.

Ensure that all fuel transfer is in progress no later than briefed abort points; otherwise, direct receiver(s) to divert as applicable.

Ensure all AAR is conducted within appropriate airspace.

Perform all radio communications between tankers and receivers during refueling evolution(s).

Manage fuel offload of tanker aircraft according to mission planning, brief, economy, and bingo considerations.

Manage receiver fueling according to mission planning, brief, and divert considerations. Ensure receivers have adequate fuel to arrive at destination with required fuel reserve.

Direct planned/inadvertent weather penetration procedures if required for inclement weather.

Prerequisite. Designated DL, TACRAC, APRB recommendation, and STRATRAC Academics complete.

Range Requirement. Appropriate SUAS/ALTRV scheduled.

External Support. Receiver aircraft.

RAC-6314 6.0 540 B,S,R,M (NS) A 1+ KC-130J

Goal. STRATRAC proficiency.

Requirement. To maintain proficiency as a STRATRAC the pilot shall plan and execute an AAR mission requiring the flight leadership of a STRATRAC.

Prerequisite. RAC-6313.

2.20 MET ASSESSMENT PHASE (7000)

Purpose. To assess CMMR representative crews during the execution of the unit's specified METs in order to ensure standardization and combat readiness and to fulfill the requirements of a Marine Corps Combat Readiness Evaluation (MCCRE) as specified in MCO 3501.1, Marine Corps Combat Readiness Evaluation.

Prerequisite. Aircrew assessed during this Phase shall be crews meeting the requirements of a Force Generating Order. The crews should be comprised of deploying personnel to the maximum extent practical.

Admin Notes. The Proficiency period for conducting elements of the 7000 Phase are: Active component units – no less than once every 2 years; for Reserve component units – no less than once every 5 years.

Units not scheduled to be assessed at a service level training venue (i.e. ITX, MTNEX) shall conduct elements of the 7000 Phase as the minimum requirement for a unit to deploy.

The MAW Flight Leadership Standardization and Evaluation (FLSE) cadre is the resource used to assess Type/Model/Series units for MET capability in accordance with the MCCRE Order (for Aviation Ground Units, Weapons Tactics Instructors are the resource used). The unit assessor will be designated at the Wing level of the unit to be assessed.

Events in this Phase normally require a Force Generation Order prior to commencing the 7000 Stage. Once a unit deploys, is removed from the Force Generation Order, or completes the required 7000-Stage, 7000 Phase currency no longer needs to be maintained.

Multiple Events may be accomplished during the same sortie.

The example template for this Phase is based on an a VMGR Harvest HAWK detachment configuration.

Results of the MCCRE assessment shall be formatted per Appendix D of NAVMC 3500.14and submitted to CG, MCCDC (via AMHS message attachment to CG TECOM MTESD) no later than 45 days after MCCRE completion.

Stages. The following Stages are included in the Mission Essential Task (MET) Phase of training. Only METs required per the Force Generation Order shall be evaluated.

STAGE NAME	EVENT
CONDUCT AVIATION OPERATIONS FROM EXPEDITIONARY SHORE-BASED SITES	MET-7001
CONDUCT COMBAT ASSAULT TRANSPORT	MET-7002
CONDUCT AIR-TO-AIR REFUELING	MET-7003
PROVIDE AVIATION-DELIVERED GROUND REFUELING	MET-7004
CONDUCT AIR DELIVERY	MET-7005
PROVIDE AVIATION-DELIVERED BATTLEFIELD ILLUMINATION	MET-7006
CONDUCT CLOSE AIR SUPPORT	MET-7007
CONDUCT MULTI-SENSORY IMAGERY RECONAISSANCE	MET-7008

2.20.1 MISSION ESSENTIAL TASK STAGE

Purpose. To assess squadrons or detachments executing community specific MET(s) or MET preparatory Events.

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Crew Requirements. The participants required for the 7000 Phase are the evaluated unit and the assessor. The crew requirement is based on the specific event. The assessment shall be conducted from a crew position of the assessor's T/M/S. At the discretion of the assessor, observation of mission planning, briefing/debriefing, and execution from an OP may satisfy a portion of the assessment.

Respectively, the primary, alternate, and tertiary assessors shall be a MATSS representative, WTI (FLSE) from within the parent command designated by the owning Wing, or A MAWTS-1 representative. The number of crews evaluated will be based on a percentage required to deploy per the Force Generation Order.

MET-7001 (NS) 2 KC-130J

Goal. Conduct aviation operations from expeditionary shore-based sites.

Requirement. Demonstrate the ability to conduct aviation operations from expeditionary shore-based sites.

Performance Standard. Conduct aviation operations from expeditionary shore-based sites per MCT 1.3.3.3.2 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Airfield support.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7002 (NS) 2 KC-130J

Goal. Conduct combat assault transport.

Requirement. Demonstrate the ability to conduct combat assault transport.

Performance Standard. Conduct combat assault transport per MCT 1.3.4.1 and KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. None.

Range/Target Requirement. None.

External Syllabus Support. Actual or notional passengers or cargo.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7003 (NS) 2 KC-130J

Goal. Conduct air-to-air refueling.

Requirement. Demonstrate the ability to conduct air-to-air refueling.

Performance Standard Conduct air-to-air refueling per MCT 1.3.4.2 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement None.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7004 (NS) 2 KC-130J

Goal. Provide aviation-delivered ground refueling

Requirement. Demonstrate the ability to provide aviation-delivered ground refueling.

Performance Standard. Provide aviation-delivered ground refueling per MCT 1.3.4.2.1 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7005 (NS) 2 KC-130J

Goal. Conduct air delivery.

Requirement. Demonstrate the ability to conduct air delivery.

Performance Standard. Conduct air delivery per MCT 4.3.4 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7006 (NS) 2 KC-130J

Goal. Provide aviation-delivered battlefield illumination.

Requirement. Demonstrate the ability to conduct battlefield illumination.

Performance Standard. Conduct battlefield illumination per MCT 1.3.4.3 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7007 (NS) 2 KC-130J

Goal. Conduct close air support.

Requirement. Demonstrate the ability to conduct close air support.

Performance Standard. Conduct close air support per MCT 3.2.3.1.1 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

MET-7008 (NS) 2 KC-130J

Goal. Conduct multi-sensory imagery reconnaissance.

Requirement. Demonstrate the ability to conduct multi-sensory imagery reconnaissance.

Performance Standard. Conduct multi-sensory imagery reconnaissance per MCT 2.2.5.2.2 and the KC-130J T&R.

Prerequisite. Per applicable KC-130J T&R event.

Instructor. Unit assessor designated by the responsible Wing of the assessed unit.

Ordnance Requirement. Per applicable KC-130J T&R event.

Range/Target Requirement. Per applicable KC-130J T&R event.

External Syllabus Support. Per applicable KC-130J T&R event.

Crew. Per applicable KC-130J T&R event.

Reference. Per applicable KC-130J T&R event.

2.21 AVIATION CAREER PROGRESSION MODEL (8000 PHASE)

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. Commanding officers shall ensure the requisite ACPM training requirements have been met prior to designating individuals.

The focus of training in the Aviation Career Progression Model (ACPM) is on academic Events in the following areas:

- Marine Air Command and Control System (MACCS)
- Aviation Ground Support
- Joint Air Operations
- ACE Battle Staff
- MAGTF
- Seabased Operations
- Combatant Commander Organization

General. The ACPM is intended to be an integrated series of academic Events contained within each Phase of training. Accordingly, ACPM academic Events are like any other academic event in that they serve as prerequisites to selected flight Events or Stages. Additionally, several ACPM academic Events are integrated as prerequisites for flight leadership syllabi. ACPM academic Events, along with their identifying prerequisite association with other training Phases/Stages/Events are listed below.

ACPM TO KC-130J T&R MATRIX			
STAGE	**EVENT NUMBER**	**ACPM DESCRIPTION**	**PREREQUISITE TO (PHASE/STAGE/EVENT)**
ACPM	8200	MACCS AGENCIES, FUNCTIONS, AND CONTROL OF AIRCRAFT AND MISSILES	NTPS-6111
ACPM	8201	MWCS BRIEF	NTPS-6111
ACPM	8202	ACA AND AIRSPACE	NTPS-6111
ACPM	8210	AVIATION GROUND SUPPORT	NTPS-6111
ACPM	8230	ACE BATTLE STAFF	NTPS-6111
ACPM	8231	BATTLE COMMAND DISPLAY	NTPS-6111
ACPM	8240	SIX FUNCTIONS OF MARINE AVIATION	NTPS-6111
ACPM	8241	JTAR-ASR INTRODUCTION AND PRACTICAL APPLICATION CLASS	NTPS-6111
ACPM	8242	SITE COMMAND PRIMER	NTPS-6111
ACPM	8250	THEATER AIR GROUND SYSTEM (TAGS)	NTPS-6111
ACPM	8300	AIR DEFENSE	NTPS-6118
ACPM	8310	FORWARD AMRNING AND REFUELING POINT (FARP) OPERATIONS	NTPS-6118
ACPM	8311	MARINE CORPS TACTICAL FUEL SYSTEMS	NTPS-6118
ACPM	8320	JOINT STRUCTURE & JOINT AIR OPERATIONS	NTPS-6118
ACPM	8321	JOINT AIR TASKING CYCLE PHASE 1: STRATEGY DEVELOPMENT	NTPS-6118
ACPM	8322	JOINT AIR TASKING CYCLE PHASE 2: TARGET DEVELOPMENT	NTPS-6118
ACPM	8323	JOINT AIR TASKING CYCLE PHASE 3: WEAPONEERING AND ALLOCATION	NTPS-6118
ACPM	8324	JOINT AIR TASKING CYCLE PHASE 4: JOINT ATO PRODUCTION	NTPS-6118
ACPM	8325	JOING AIR TASKING CYCLE PHASE 5: FORCE EXECUTION	NTPS-6118
ACPM	8326	JOINT AIR TASKING CYCLE PHASE 6: COMBAT ASSESSMENT	NTPS-6118
ACPM	8340	INTEGRATING FIRES AND AIRSPACE WITHIN THE MAGTF	NTPS-6118
ACPM	8350	PHASING CONTROL ASHORE	NTPS-6118

ACPM	8351	TACRON ORGANIZATIONS AND FUNCTIONS	NTPS-6118
ACPM	8620	ESG/CSG INTEGRATION	DL-6304
ACPM	8630	TACTICAL AIR COMMAND CENTER (TACC)	SL-6301
ACPM	8640	JOINT DATA NETWORK	DL-6304
ACPM	8641	MAGTF THEATER	DL-6304
ACPM	8660	JOINT OPS INTRO	SL-6301

2.21.1 ACPM CORE SKILL TRAINING PHASE

Purpose. To provide and introduce basic integration of the ACE within the MAGTF and ACE Battle Staff planning.

Admin Notes. The PUI must be qualified as a T3P prior to beginning this phase of training.

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

Learning Objectives

Understand the organization of the MACG and the agencies provided by the MACG that form the MACCS.
Understand the mission and tasks of the Tactical Air Command Center (TACC).
Understand the mission and tasks of the Tactical Air Operations Center (TAOC).
Understand the mission and tasks of marine Air Traffic Control (MATC) and the marine Air Traffic Control Mobile Team (MMT).
Understand the mission and tasks of the Direct Air Support Center (DASC).
Understand the mission and tasks of the Low Altitude Air Defense (LAAD) Battalion.
Understand the mission and tasks of the Marine Unmanned Aerial Vehicle (VMU) squadron.
Understand the mission and tasks of the Marine Wing Communication Squadron (MWCS).

ACPM-8201 0.5 * MWCS Brief

Learning Objectives

From a list be able to identify the core competencies of the MWCS.
Without the aid of reference, describe the organization of the MWCS.
Without the aid of reference, identify key equipment used by the MWCS to support the MACCS.

ACPM-8202 0.8 * ACA and Airspace

Learning Objectives

List the three fundamental principles of airspace command and control.
List and explain the three tenets of the integrated combat airspace command and control system.
Describe the responsibilities of the ACA.
Describe the responsibilities of the AMCT.
Understand the definitions of Air Direction and Air Control as well as the subsets of those two major categories.
List a variety of items encompassed within the ACP.

ACPM-8210 0.7 * Aviation Ground Support

Learning Objectives

Identify the organization responsible for providing Aviation Ground Support (AGS) to the MAW.
Identify the four concepts for MAGTF Forward Operating Bases (FOBs).
Identify the five activities the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.
Identify the four classifications of FOBs and state the distinguishing characteristics of each.
Identify the fourteen functions of AGS.

ACPM-8230 1.0 * ACE Battle Staff

Learning Objectives

Introduce and explain the intel capabilities/products available to the ACE/MAGTF.

Introduce ALSA comm brevity terms.
Introduce functions and responsibilities of ACE Battle Staff.

ACPM-8231 1.0 * Battle Command Display

Learning Objectives

Introduce the Battle Command Display.

ACPM-8240 1.7 * Six Functions of Marine Aviation

Learning Objectives

To better understand the 6 functions of Marine Corps Aviation.

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

Learning Objectives

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

ACPM-8242 1.0 * Site Commander Primer

Learning Objectives

Introduce fundamentals and functions of Site Command.

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

Learning Objectives

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

2.21.2 ACPM MISSION SKILL TRAINING EVENTS

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

Admin Notes. The PUI must be qualified as an T3P prior to beginning this stage of training.

ACPM-8300 0.8 * Air Defense

Learning Objectives

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

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

Learning Objectives

State the mission and objective of a FARP.

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

ACPM-8311 0.8 * Marine Corps Tactical Fuel Systems

Learning Objectives

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

ACPM-8320 1.0 * Joint Structure & Joint Air Operations

Learning Objectives

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

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

Learning Objectives

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

Prerequisite. ACPM-8320.

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

Learning Objectives

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

Prerequisite. ACPM-8321.

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

Learning Objectives

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

Prerequisite. ACPM-8322.

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

Learning Objectives

Understand the role of joint ATO production within the joint air tasking cycle.

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

Prerequisite. ACPM-8323.

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

Learning Objectives

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

Prerequisite. ACPM-8324.

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

Learning Objectives

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

Prerequisite. ACPM-8325.

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

Learning Objectives

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

ACPM-8350 0.8 * Phasing Control Ashore

Learning Objectives

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

ACPM-8351 1.0 * TACRON Organizations and Functions

Learning Objectives

TBD

2.14.5 ACPM FLIGHT LEADERSHIP TRAINING EVENTS

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

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

Section Leader: ACPM-8630, ACPM-8660.
Division Leader: ACPM-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-8620 1.0 * ESG/CSG Integration

Learning Objectives

TBD

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

Learning Objectives

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

ACPM-8640 0.8 * Joint Data Network

Learning Objectives

Understand the four components of the JDN.
Understand the differences between the Single Integrated Air Picture (SIAP), Common Tactical Picture (CTP), and Common Operational Picture (COP).
Understand the differences between Sensor Network(s), Joint Data Network (JDN), and Joint Planning Network (JPN).
Understand how the ACE builds its CTP and how information is shared throughout the ACE and the Marine Air Command and Control System (MACCS).
Know the primary system that will "tie in" the intelligence flow throughout the Marine Aviation Command and Control System (MACCS).

ACPM-8641 1.3 * MAGTF Theater and National ISR Employment

Learning Objectives

Define priority intelligence requirement.
Identify basic tenets of the National Imagery Interpretability Rating Scale.
Recognize strengths and weaknesses of the EO, SAR, and IR sensors found on national satellites.
Know the three categories of SIGINT.
Identify the information requirements used in the UAS planning process.
Identify what effective planning of UAS employment involves.
Identify key planning considerations outlined for UAS employment.
Define "Non-Traditional ISR".
Identify the most common shortfalls on JTARs submitted for NTISR support.
Identify the most common shortfalls on JTARs submitted for ATARS support.
Identify different imagery products ATARS can provide.

ACPM-8660 0.4 * Joint Ops Introduction

Learning Objectives

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

2.22 KC-130J PILOT T&R SYLLABUS MATRIX (1000 Phase)

KC-130J PILOT T&R SYLLABUS MATRIX (1000 Phase)																				
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	POI			ACAD		SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	PREREQ	INSTRUCTOR	EOM	EVENT CONV
				B	SC	MR & R	#	TIME	#	TIME	#	TIME								
1000 PHASE (CORE INTRODUCTION)																				
COCKPIT PROCEDURE TRAINER (CPT)																				
CPT	CPT	CHECKLIST INTRO	1100	X	X					2.0			D	S	1	*		CI/FRSI		1100
	CPT	CNI-MS/CNBP INTRO	1101	X	X					2.0			D	S	1	*	1100	CI/FRSI		1101
	CPT	COMM/NAV OPERATIONS	1102	X	X					2.0			D	S	1	*	1101	CI/FRSI		1102
	CPT	AMU/HDD OPERATION	1103	X	X					2.0			D	S	1	*	1102	CI/FRSI		1103
	CPT	HUD OPERATION	1104	X	X					2.0			D	S	1	*	1103	CI/FRSI		1104
	CPT	FLIGHT PROGRAMMING 1	1105	X	X					2.0			D	S/A	1	*	1104	CI/FRSI		1105
	CPT	FLIGHT PROGRAM 2	1106	X	X					2.0			D	S	1	*	1105	CI/FRSI		1106
	CPT	APU/ENGINE OPERATION	1107	X	X	X				2.0			D	S/A	1	*	1106	CI/FRSI		1107
	CPT	PROP/HYD OPERATION	1108	X	X	X				2.0			D	S/A	1	*	1107	CI/FRSI		1108
	CPT	ELEC/BIU BACKUP OPS	1109	X	X	X				2.0			D	S	1	*	1108	CI/FRSI		1109
	CPT	BLEED AIR	1110	X	X	X				2.0			D	S/A	1	*	1109	CI/FRSI		1110
	CPT	FUEL MANAGEMENT	1111	X	X	X				2.0			D	S/A	1	*	1110	CI/FRSI		1111
FAM SKILL TOTAL							0	0.0	12	24.0	0	0.0								
FAMILIARIZATION (FAM)																				
FAM	FAM	VISUAL FLIGHT I	1112	X	X					2.0			D	S/A	1	*	1111	CI/FRSI		1112
	FAM	VISUAL FLIGHT II	1113	X						2.0			D	S/A	1	*	1112	CI/FRSI		1113
	FAM	VISUAL FLIGHT III	1114	X		X				2.0			D	S/A	1	*	1113	CI/FRSI		1114
	FAM	NIGHT VISUAL FLIGHT	1115	X	X					2.0			N*	S/A	1	*	1114	CI/FRSI		1115
	FAM	INST FL - ILS/NDB	1116	X	X	X				2.0			D	S/A	1	*	1115	CI/FRSI		1116
	FAM	INST FL - TACAN/LOC	1117	X	X					2.0			N*	S/A	1	*	1116	CI/FRSI		1117
	FAM	RADAR APPROACHES	1118	X						2.0			D	S/A	1	*	1117	CI/FRSI		1118
	FAM	EN ROUTE OPS 1	1119	X						2.0			D	S/A	1	*	1118	CI/FRSI		1119
	FAM	EN ROUTE OPS 2	1120	X	X	X				2.0			N*	S/A	1	*	1119	CI/FRSI		1120
	FAM	ASYMMETRIC OPS 1	1121	X	X					2.0			D	S/A	1	*	1120	CI/FRSI		1121
	FAM	ASYMMETRIC OPS 2	1122	X	X	X				2.0			D	S	1	*	1121	CI/FRSI		1122
	FAM	ASYMMETRIC OPS 3	1123	X						2.0			D	S	1	*	1122	CI/FRSI		1123
	FAM	SPECIAL PROCEDURES	1124	X	X					2.0			D	S	1	*	1123	CI/FRSI		1124
	FAM	ELEC/FLAP/PROP EPS	1125	X	X					2.0			D	S	1	*	1124	CI/FRSI		1125
	FAM	HYD/FLIGHT CNT EPS	1126	X						2.0			D	S/A	1	*	1125	CI/FRSI		1126
	FAM	LANDING GEAR EPS	1127	X						2.0			D	S/A	1	*	1126	CI/FRSI		1127
	FAM	AUTOFLIGHT 1	1128	X	X					2.0			D	S/A	1	*	1127	CI/FRSI		1128
	FAM	AUTOFLIGHT 2	1129	X						2.0			N*	S/A	1	*	1128	CI/FRSI		1129
	FAM	REVIEW FLIGHT	1130	X	X					2.0			D	S/A	1	*	1129	CI/FRSI		1130
	FAM	FRD EVALUATION	1131	X	X	X				2.0			D	S/A	1	*	1130	CI/FRSI		1131
	FAM	PREFLIGHT/EMER/EQUIP	1132	X	X			3.0					D	A	1	*	1111	CI/FRSI		1132
FAM SKILL TOTAL							1	3.0	20	40.0	0	0.0								

KC-130J PILOT T&R SYLLABUS MATRIX (1000 Phase)																					
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	POI			ACAD		SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	PREREQ	INSTRUCTOR	EOM	EVENT CONV
				B	SC	MR & R	#	TIME	#	TIME	#	TIME								
NIGHT SYSTEMS HIGH (NS(H))																				
NS(H)	NS(H)	INTRO TO NVD PROC	1150	X	X					2.0			NS	S/A	1	*	1126	CI NSI/FRSI NSI		1150
NS(H) SKILL TOTAL							0	0.0	1	2.0	0	0.0								
LONG RANGE NAVIGATION (LRN)																				
LRN	LRN	INTRO TO LRN PROC	1160	X	X					2.0			D	S/A	1	*	1126	CI LRNI/FRSI		1160
LRN SKILL TOTAL							0	0.0	1	2.0	0	0.0								
TACTICAL NAVIGATION (TN)																				
TN	TN	INTRO TO TN PROC	1200	X	X					2.0			D	S/A	1	*	1126	CI TNI/FRSI		1200
	TN	ADVANCED TN PROC	1201	X	X					2.0			D	S/A	1	*	1200	CI TNI/FRSI		1201
	TN	INTRO TO TAC MAN	1202	X	X					2.0			D	S/A	1	*	1201	CI TNI/FRSI		1202
TN SKILL TOTAL							0	0.0	3	6.0	0	0.0								
FORMATION (FORM)																				
FORM	FORM	INTRO SEC FORM PROC	1300	X	X					2.0			D	S/A	2	*	1126	CI FORMI/FRSI SL		1300
FORM SKILL TOTAL							0	0.0	1	2.0	0	0.0								
THREAT REACTION (TR)																				
TR	TR	INTRO TO IR TR	1400	X	X					2.0			D	S/A	1	*	1202	CI IR TRI/FRSI LATI		1400
TR SKILL TOTAL							0	0.0	1	2.0	0	0.0								
ASSUALT LANDING ZONE (ALZ)																				
ALZ	ALZ	INTRO TO ALZ PROC	1500	X						2.0			D	S/A	1	*	1126	CI ALZI/FRSI ALZI		1500
	ALZ	INTRO TO TAC ARRIVALS	1501	X	X					2.0			D	S/A	1	*	~~1126,~~1500	CI ALZI/FRSI ALZI		1501
ALZ SKILL TOTAL							0	0.0	2	4.0	0	0.0								
ASSUALT LANDING ZONE (ALZ)																				
AAR	AAR	INTRO TO FWAAR/TAAR PROC	1600	X						2.0			D	S/A	1	*	1126	CI AARI/FRSI		1600
	AAR	INTRO TO HAAR PROC	1601	X						2.0			D	S/A	1	*	1600	CI AARI/FRSI		1601
AAR SKILL TOTAL							0	0.0	2	4.0	0	0.0								
AIR DELIVERY (AD)																				
AD	AD	INTRO TO AD PROC	1700	X	X					2.0			D	S/A	1	*	1202	CI ADI/FRSI ADI		1700
AD SKILL TOTAL							0	0.0	1	2.0	0	0.0								
FAMILIARIZATION (FLIGHT PHASE CONDUCTED AT FLEET SQUADRON)																				
FCRM	FCRM	FAM	1800	X	X	X						2.0	D	A	1	*	1131,1132	FRSI		1800
	FCRM	FAM	1801	X	X							2.0	(N*)	A	1	*	1800	FRSI		1801
	FCRM	FAM	1802	X	X	X						2.0	(N*)	A	1	*	1801	FRSI		1802
	FCRM	FAM	1803	X	X							2.0	D	A	1	*	1802	FRSI		1803
	FCRM	FAM	1804	X	X	X						2.0	(N*)	A	1	*	1803	FRSI		1804
FCRM SKILL TOTAL							0	0.0	0	0.0	5	10.0								
1000 PHASE TOTAL							1	3.0	44	88.0	0	10.0								

2.23 KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																		
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
				B	SC	R		#	TIME	#	TIME							
2000 PHASE (CORE)																		
LEFT SEAT FAM (LSF)																		
LSF	LSF	LEFT SEAT FAM	2100	X	X	X					**2.0**	(N)	A	1	*	ANI		2100
LSF SKILL TOTAL								**0**	**0.0**	**1**	**2.0**							
NIGHT SYSTEMS (NS)																		
NS(H)	NS(H)	HLL NVD PROCEDURES	2150	X	X	X	X				**2.0**	HLL	A/S	1	90	NSI		2150
	NS(H)	LLL NVD PROCEDURES	2151	X	X	X	X				**2.0**	LLL	A/S	1	90	NSI		2151
NS SKILL TOTAL								**0**	**0.0**	**2**	**4.0**							
LONG RANGE NAVIGATION (LRN)																		
LRN	LRN	CONSTANT TAS LRN	2160	X	X						**6.0**	(N)	A	1	*	TPC		2160
	LRN	LR CRUISE LRN	2161	X	X						**6.0**	(N)	A	1	*	TPC		2161
	LRN	LRN	2162	X	X	X	X				**6.0**	(N)	A	1	365	TPC		2162
LRN SKILL TOTAL								**0**	**0.0**	**3**	**18.0**							
TACTICAL NAVIGATION (TN)																		
TN	TN	TN TIME NAV (PM)	2200	X	X	X					**2.0**	D	A/S	1	*	BIP		2200
	TN	TN PROCEDURES (PF)	2201	X	X	X	X				**2.0**	D	A/S	1	365	BIP		2201
	TN	HLL TN PROC (PF)	2250	X	X	X	X				**2.0**	HLL	A/S	1	180	NSI		2250
	TN	LLL TN PROC (PF)	2251	X	X	X	X				**2.0**	LLL	A/S	1	180	NSI		2251
TN SKILL TOTAL								**0**	**0.0**	**4**	**8.0**							
LOW ALTITUDE TACTICS (LAT)																		
LAT	LAT	INTRO TO LAT PROC	2260	X	X				**2.0**			D	S/A	1	*	LATI		2260
	LAT	LAT PROCEDURES	2261	X	X	X	X				**2.0**	D	A	1	180	LATI		2261
LAT SKILL TOTAL								**1**	**2.0**	**1**	**2.0**							
FORMATION (FORM)																		
FORM	FORM	SEC FORM PROC	2300	X	X	X	X				**3.0**	D	A/S	2	365	SEC LD		2300
	FORM	DIV FORM PROC	2301	X	X	X	X				**3.0**	(NS)	A	3+	365	SEC LD		2301
	FORM	NIGHT FORM PROC	2350	X	X	X	X				**2.0**	NS	A/S	2+	180	SEC LD,(NSI)		2350
FORM SKILL TOTAL								**0**	**0.0**	**3**	**8.0**							
THREAT REACTION (TR)																		
TR	TR	GROUND IR TR	2400	X	X	X	X				**2.0**	(NS)	A/S	1	180	LATI		2400
TR SKILL TOTAL								**0**	**0.0**	**1**	**2.0**							
2000 PHASE TOTAL								**1**	**2.0**	**15**	**44.0**							

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																			
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
				B	SC	R		#	TIME	#	TIME							
3000 PHASE (MISSION)																		
ASSAULT LANDING ZONE (ALZ)																		
ALZ	ALZ	ALZ PROCEDURES	3500	X	X	X	X				**2.0**	D	A/S	1	180	ALZI,WTI		3500
	ALZ	TACTICAL ARRIVALS	3501	X	X	X	X				**2.0**	(NS)	A/S	1	365	ALZI,WTI		3501
	ALZ	COMBAT OFFLOAD	3502	X	X						**0.5**	(N)	A	1	*	ALZI,WTI		3502
	ALZ	UNIMPROVED GRND OPS	3503	X	X	X	X				**0.5**	(NS)	A	1	730	ALZI,WTI		3503
	ALZ	NIGHT ALZ PROC	3550	X	X	X	X				**2.0**	NS	A/S	1	180	ALZI,(NSI)		3550
ALZ SKILL TOTAL								**0**	**0.0**	**5**	**7.0**							
AIR-TO-AIR REFUELING																		
AAR	AAR	FWAAR/TAAR PROC	3600	X	X	X	X				**2.0**	(NS)	A/S	1	365	BIP		3600
	AAR	DAY HAAR PROC	3601	X	X	X	X				**2.0**	D	A/S	1	365	BIP		3601
	AAR	AAR PANEL PROC	3602	X	X	X	X		**2.0**			(NS)	S/A	1	180	BIP		3602
	AAR	NIGHT HAAR PROC	3650	X	X	X	X				**2.0**	NS	A/S	1	180	BIP,(NSI)		3650
AAR SKILL TOTAL								**1**	**2.0**	**3**	**6.0**							
AVIATION DELIVERED GROUND REFUELING (ADGR)																		
ADGR	ADGR	ADGR PROCEDURES	3660	X	X	X	X				**1.0**	(NS)	A	1	730	BIP		
ADGR SKILL TOTAL								**0**	**0.0**	**1**	**1.0**							
AIR DELIVERY (AD)																		
AD	AD	INTRO TO PF AD	3700	X	X				**2.0**			(NS)	S/A	1	*	CI ADI,ADI		3700
	AD	INTRO TO PM AD	3701	X	X				**2.0**			(NS)	S/A	1	*	CI ADI,ADI		3701
	AD	PF CARGO AD	3702	X	X	X	X				**2.0**	(NS)	A/S	1	90	ADI		3702
	AD	PM CARGO AD	3703	X	X	X	X				**2.0**	(NS)	A/S	1	90	ADI		3703
	AD	PF PERSONNEL AD	3704	X	X	X	X				**2.0**	(NS)	A/S	1	90	ADI		3704
	AD	PM PERSONNEL AD	3705	X	X	X	X				**2.0**	(NS)	A/S	1	90	ADI		3705
AD SKILL TOTAL								**2**	**4.0**	**4**	**8.0**							
3000 PHASE TOTAL								**3**	**6.0**	**13**	**22.0**							
4000 PHASE (CORE PLUS)																		
TACTICAL NAVIGATION (TN)																		
TN	TN	FORM TN PROCEDURES	4200	X	X	X	X				**3.0**	(NS)	A	2+	365	SEC LD		4200
TN TOTAL								**0**	**0.0**	**1**	**3.0**							
NIGHT SYSTEMS LOW (NS(L))																		
NS(L)	NS(L)	INTRO NSLAT PROC	4250	X	X				**2.0**			HLL	S/A	1	*	NS LATI		4250
	NS(L)	NSLAT PROCEDURES	4251	X	X	X	X				**2.0**	HLL	A	1	180	NS LATI		4251
NS(L) SKILL TOTAL								**1**	**2.0**	**1**	**2.0**							
THREAT REACTION (TR)																		
TR	TR	INTRO GRND RADAR TR	4400	X	X						**2.0**	(NS)	A/S	1	*	WTI		4400
	TR	GROUND RADAR TR	4401	X	X	X	X				**2.0**	(NS)	A	1	180	WTI		4401
TR TOTAL								**0**	**0.0**	**2**	**4.0**							

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																			
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
				B	SC	R		#	TIME	#	TIME							
DEFENSIVE TACTICS (DT)																		
DT	DT	1 VS. 1 DEFTAC	4410	X	X	X	X				**2.0**	D	A	1	365	DTI		4410
	DT	1 VS. 2 DEFTAC	4411	X	X	X	X				**2.0**	D	A	1	365	DTI		4411
DT TOTAL								**0**	**0.0**	**2**	**4.0**							
AIR DELIVERY (AD)																		
AD	AD	COMBINATION AD	4700	X	X	X	X				**2.0**	(NS)	A	1	365	ADI		4700
	AD	MFF AD	4701	X	X	X	X				**2.0**	(NS)	A	1	365	ADI		4701
	AD	JPADS AD	4702	X	X	X	X				**2.0**	(NS)	A	1	365	ADI		4702
AD TOTAL								**0**	**0.0**	**3**	**6.0**							
BATTLEFIELD ILLUMINATION (BI)																		
BI	BI	BATTLEFIELD ILLUM	4710	X	X	X	X				**2.0**	N	A	1	365	ADI		4710
BI SKILL TOTAL								**0**	**0.0**	**1**	**2.0**							
PILOT HARVEST HAWK (HH)																		
HH	HH	HH GROUND FAM	4803	X	X				**2.0**			D	S/A	1	*	HHI		
	HH	HH FLIGHT FAM	4804	X	X						**2.5**	D	A	1	*	HHI		4803
HH TOTAL								**2**	**6.0**	**0**	**2.5**							
PILOT BASIC AIR TO SURFACE (BAS)																		
BAS	BAS	INTRO TO DAY WEAPONS EMPL	4860	X	X						**2.5**	D	A	1	*	HHI		4810
	BAS	DAY WEAPONS EMPL	4861	X	X						**2.5**	D	A	1	*	HHI		4811
	BAS	WEAPONS EMPLOYMENT	4862	X	X						**2.5**	(N)	A	1	*	HHI		4812
BAS TOTAL								**0**	**0.0**	**3**	**7.5**							
PILOT MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)																		
MIR	MIR	MIR PROFICIENCY	4870	X	X	X	X				**2.5**	(N)	A	1	365	HHI		4820
MIR SKILL TOTAL								**0**	**0.0**	**1**	**2.5**							
PILOT CLOSE AIR SUPPORT (CAS)																		
CAS	CAS	CAS	4880	X	X	X	X				**2.5**	(N)	A	1	180	HHI		4830
	CAS	URBAN CAS	4890	X	X						**2.5**	(N)	A	1	*	HHI		4840
CAS SKILL TOTAL								**0**	**0.0**	**2**	**5.0**							
4000 PHASE TOTAL								**4**	**10.5**	**21**	**51.0**							
5000 PHASE (INSTRUCTOR TRAINING)																		
BASIC INSTRUCTOR PILOT (BIP)																		
BIP	BIP	BIP TRAINING	5100	X	X						**2.0**	D	A/S	1	*	LATI,NSI,WTI		5100
	BIP	BIP CHECK	5101	X	X						**2.0**	NS	A/S	1	*	LATI,NSI,WTI		5101
BIP TOTAL								**0**	**0.0**	**2**	**4.0**							
ASSISTANT NATOPS INSTRUCTOR (ANI)																		
ANI	NI	ANI TRAINING	5140	X	X				**2.0**			(N)	S/A	1	*	ANI,NE,NM		5140
	NI	ANI CHECK	5141	X	X	X	X		**2.0**			(N)	S/A	1	365	NI,NE,NM	X	5141
ANI SKILL TOTAL								**2**	**4.0**	**0**	**0.0**							

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																		
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN B	ATTAIN SC	ATTAIN R	MAINTAIN	SIM #	SIM TIME	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
FLEET REPLACEMENT SQUADRON INTRODUCTION (FRSI)																		
FRSI	FRSI	FRSI TRAINING	5145	X	X				2.0			(N)	S/A	1	*	FRSI		5145
	FRSI	FRSI TRAINING	5146	X	X				2.0			(N)	S/A	1	*	FRSI		5146
	FRSI	FRSI CHECK	5147	X	X	X					2.0	(N)	A	1	*	FRSI		5147
FRSI TOTAL								2	4.0	1	2.0							
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)																		
FLSE	FLSE	FLSE IUT	5320	X	X	X									*	FLSE MM/PC		5320
	FLSE	FLSE CERTIFICATION	5321	X	X	X					3.0	(NS)	A	2+	*	FLSE MM/PC		5321
	FLSE	FLSE QUARTERLY TRNG	5322	X	X	X	X								90	FLSE MM/PC		5322
FLSE TOTAL								0	0.0	1	3.0							
STAGE INSTRUCTOR (SI)																		
SI	ALZ	ALZ STAGE INST CHK	5500	X							2.0	NS	A	1	*	ALZI/NSI,ALZI/ANI,WTI		5501
	AD	AD STAGE INST TRNG	5700	X	X				2.0			(NS)	S/A	1	*	ADI		
	AD	AD STAGE INST CHK	5701	X	X						2.0	(NS)	A	1	*	ADI		5701
SI TOTAL								1	2.0	2	4.0							
NIGHT SYSTEMS INSTRUCTOR (NSI)																		
NSI	NS(H)	NS(H) FAM IUT	5150	X	X	X					2.0	NS	A	1	*	NSI		5150
	NS(H)	NS (H) TN IUT	5151	X	X	X					2.0	NS	A	1	*	NSI		5151
	NS(H)	NSI CERTIFICATION	5152	X	X	X					2.0	NS	A	1	*	MAWTS IP		5152
NSI TOTAL								0	0.0	3	6.0							
LOW INSTRUCTOR (LATI)																		
LATI	LAT	LAT IUT	5210	X	X	X					2.0	D	A	1	*	LATI		5210
	LAT	LAT IUT	5211	X	X	X					2.0	D	A	1	*	LATI		5211
	LAT	LATI CERTIFICATION	5212	X	X	X					2.0	D	A	1	*	WTI		5212
LATI TOTAL								0	0.0	3	6.0							
NS LAT INSTRUCTOR (NSLATI)																		
NSLATI	NS(L)	NSLAT IUT	5250	X	X	X					2.0	HLL	A	1	*	NSLATI		5250
	NS(L)	NSLATI CERTIFICATION	5251	X	X	X					2.0	HLL	A	1	*	MAWTS IP		5251
NSLATI SKILL TOTAL								0	0.0	2	4.0							
HARVEST HAWK INSTRUCTOR (HHI)																		
HHI	HH	HH IUT	5310	X	X	X					3.0	(N)	A	1	*	HHI		5310
	HH	HHI CERTIFICATION	5311	X	X	X					3.0	(N)	A	1	*	MAWTS IP		5311
HHI SKILL TOTAL								0	0.0	2	6.0							
DEFENSIVE TACTICS INSTRUCTOR (DTI)																		
DTI	DT	DT IUT	5410	X	X	X					1.0	D	A	1	*	DTI		5410
	DT	DT IUT	5411	X	X	X					1.0	D	A	1	*	DTI		5411
	DT	DTI CERTIFICATION	5412	X	X	X					2.0	D	A	1	*	MAWTS IP		5412
LATI TOTAL								0	0.0	3	4.0							

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																		
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
				B	SC	R		#	TIME	#	TIME							
6000 PHASE (REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (R,C,Q,D)																		
NATOPS (NTPS)																		
NTPS	NTPS	T3P NATOPS QUAL	6110	X	X	X	X				**2.0**	(N)	A/S	1	365	FRSI, CI NI	X	6110
	NTPS	T2P NATOPS QUAL	6111	X	X	X	X		**2.0**			(N)	S/A	1	365	ANI,CI NI	X	6111
	NTPS	TPC UPGRADE SIM	6112	X	X				**3.0**			(N)	S	1	*	CI,ANI		6112
	NTPS	TPC UPGRADE SIM	6113	X	X				**3.0**			(N)	S	1	*	CI,ANI		6113
	NTPS	TPC UPGRADE SIM	6114	X	X				**3.0**			(N)	S	1	*	CI,ANI		6114
	NTPS	TPC UPGRADE SIM	6115	X	X				**3.0**			(N)	S	1	*	CI,ANI		6115
	NTPS	TPC UPGRADE SIM	6116	X	X				**3.0**			(N)	S	1	*	CI,ANI		6116
	NTPS	TPC ROUTE CHECK	6117	X	X						**18.0**	(N)	A	1	*	ANI		6117
	NTPS	TPC NATOPS QUAL	6118	X	X	X	X				**2.0**	(N)	A/S	1	365	ANI,CI NI	X	6118
	NTPS	EP REVIEW	6120	X	X	X	X		**1.0**			(N)	S/A	1	90	ANI,CI	X	6120
NTPS TOTAL								**7**	**18.0**	**3**	**22.0**							
INSTRUMENTS (INST)																		
INST	INST	STANDARD INST CHECK	6130	X	X	X	X		**2.0**			(N)	S/A	1	365	ANI,CI NI	X	6130
	INST	SPECIAL INST CHECK	6131	X	X	X	X		**2.0**			(N)	S/A	1	365	ANI,CI NI	X	6131
INST TOTAL								**2**	**4.0**	**0**	**0.0**							
SECTION LEAD (SL)																		
SL	SL	SL PRACTICE	6300	X							**3.0**	(NS)	A	2	*	SL		6300
	SL	SL CERT	6301	X	X						**3.0**	(NS)	A	2	*	FLSE		6301
	SL	SL PROFICIENCY	6302	X	X	X	X				**2.0**	(NS)	A	2	365			6302
SL TOTAL								**0**	**0.0**	**3**	**8.0**							
DIVISION LEAD (DL)																		
DL	DL	DL PRACTICE	6303	X							**3.0**	(NS)	A	3+	*	DL		6303
	DL	DL CERT	6304	X	X						**3.0**	(NS)	A	3+	*	FLSE		6304
	DL	DL PROFICIENCY	6305	X	X	X	X				**2.0**	(NS)	A	3+	365			6305
DL TOTAL								**0**	**0.0**	**3**	**8.0**							
RAC																		
RAC	RAC	INTRO TO TACRAC	6310	X	X						**3.0**	(NS)	A	2+	*	TACRAC		6310
	RAC	TACRAC CERT	6311	X	X						**3.0**	(NS)	A	2+	*	TACRAC FLSE		6311
	RAC	TACRAC PROF	6312	X	X	X	X				**2.0**	(NS)	A	2+	365			6312
	RAC	STRATRAC CERT	6313	X	X						**6.0**	(NS)	A	1+	*	STRATRAC FLSE		6313
	RAC	STRATRAC PROF	6314	X	X	X	X				**6.0**	(NS)	A	1+	540			
RAC TOTAL								**0**	**0.0**	**5**	**20.0**							
FUCTIONAL CHECK PILOT (FCP)																		
FCP	FCP	PART FCP CERT/PROF	6105	X	X	X	X				**4.0**	D	A/S	1	365	FCP,CI		6105
	FCP	FCP CERTIFICATION	6106	X	X						**4.0**	D	A	1	*	FCP		6106
FCP TOTAL								**0**	**0.0**	**2**	**8.0**							

KC-130J PILOT T&R SYLLABUS MATRIX (2000-6000 Phase)																			
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	SIM		FLIGHT		CONDITION	TYPE	# A/C or SIM	REFLY	INSTRUCTOR	EOM	EVENT CONV
				B	SC	R		#	TIME	#	TIME							
FIRE CONTROL OFFICER (FCO)																		
FCO HARVEST HAWK (HH)																		
HH	HH	HH GROUND FAM (PTT)	4800	X	X				2.0			D	S/A	1	*	HHI		4850
	HH	HH PTT FAM	4801	X	X	X	X		2.0			D	S/A	1	180	HHI		4851
	HH	HH FCC INTRO	4802	X	X							D	A	1	*	HHI		4802
	HH	HH GROUND FAM	4803	X	X				2.0			D	S/A	1	*	HHI		
	HH	HH FLIGHT FAM	4804	X	X						2.5	D	A	1	*	HHI		4803
HH TOTAL								**2**	**6.0**	**0**	**2.5**							
FCO BASIC AIR TO SURFACE (BAS)																		
BAS	BAS	INTRO TO DAY WEAPONS EMPL	4810	X	X				2.5			D	S/A	1	*	HHI		4860
	BAS	DAY WEAPONS EMPL	4811	X	X						2.5	D	A	1	*	HHI		4861
	BAS	LIVE WEAPONS EMPL	4812	X	X						2.5	(N)	A	1	*	HHI		4862
BAS TOTAL								**1**	**2.5**	**2**	**5.0**							
FCO MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)																		
MIR	MIR	MIR PROFICIENCY	4820	X	X	X	X				2.5	(N)	A	1	180	HHI		4870
MIR SKILL TOTAL								**0**	**0.0**	**1**	**2.5**							
FCO CLOSE AIR SUPPORT (CAS)																		
CAS	CAS	CAS	4830	X	X	X	X				2.5	(N)	A	1	180	HHI		4880
	CAS	URBAN CAS	4840	X	X						2.5	(N)	A	1	*	HHI		4890
CAS SKILL TOTAL								**0**	**0.0**	**2**	**5.0**							

2.24 KC-130J PILOT ATTAIN & MAINTAIN MATRIX (2000-4000 Phase)

KC-130J PILOT ATTAIN / MAINTAIN MATRIX												
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SER CONV POI	REFRESHER POI	MAINTAIN POI	COND	TYPE	# A/C or SIM	REFLY	PREREQUISITE	CHAINING
2000 PHASE (CORE)												
LEFT SEAT FAM (LSF)												
LSF	LSF	LEFT SEAT FAM	2100	2100	2100		(N)	A	1	*	2200,3600,6110	
NIGHT SYSTEMS (NS)												
NS(H)	NS(H)	HLL NVD PROCEDURES	2150	2150	2150	2150	HLL	A/S	1	90		
	NS(H)	LLL NVD PROCEDURES	2151	2151	2151	2151	LLL	A/S	1	90		2150
LONG RANGE NAVIGATION (LRN)												
LRN	LRN	CONSTANT TAS LRN	2160	2160			(N)	A	1	*		
	LRN	LR CRUISE LRN	2161	2161			(N)	A	1	*		
	LRN	LRN	2162	2162	2162	2162	(N)	A	1	365	2160,2161	
TACTICAL NAVIGATION (TN)												
TN	TN	TN TIME NAV (PM)	2200	2200	2200		D	A/S	1	*		
	TN	TN PROCEDURES (PF)	2201	2201	2201	2201	D	A/S	1	365	2200	
	TN	HLL TN PROC (PF)	2250	2250	2250	2250	HLL	A/S	1	180	2201	2201,2150
	TN	LLL TN PROC (PF)	2251	2251	2251	2251	LLL	A/S	1	180	2201	2250,2201,2151,2150
LOW ALTITUDE TACTICS (LAT)												
LAT	LAT	INTRO TO LAT PROC	2260	2260			D	S/A	1	*	2201	2201
	LAT	LAT PROCEDURES	2261	2261	2261	2261	D	A	1	180	2260	2201
FORMATION (FORM)												
FORM	FORM	SEC FORM PROC	2300	2300	2300	2300	D	A/S	2	365		
	FORM	DIV FORM PROC	2301	2301	2301	2301	(NS)	A	3+	365	2300	2350~NS,2300,2151~LLL,2150~NS
	FORM	NIGHT FORM PROC	2350	2350	2350	2350	NS	A/S	2+	180	2300	2300,2151~LLL,2150~NS
THREAT REACTION (TR)												
TR	TR	GROUND IR TR	2400	2400	2400	2400	(NS)	A/S	1	180	2260	2151~LLL,2150~NS
3000 PHASE (MISSION)												
ASSAULT LANDING ZONE (ALZ)												
ALZ	ALZ	ALZ PROCEDURES	3500	3500	3500	3500	D	A/S	1	180	2100	
	ALZ	TACTICAL ARRIVALS	3501	3501	3501	3501	(NS)	A/S	1	365	2100	2151~LLL,2150~NS
	ALZ	COMBAT OFFLOAD	3502	3502			(N)	A	1	*	2100	
	ALZ	UNIMPROVED GRND OPS	3503	3503	3503	3503	(NS)	A	1	730	2100	2151~LLL,2150~NS
	ALZ	NIGHT ALZ PROC	3550	3550	3550	3550	NS	A/S	1	180	3500,2150,2151	3500, 2151~LLL,2150~NS
AIR-TO-AIR REFUELING												
AAR	AAR	FWAAR/TAAR PROC	3600	3600	3600	3600	(NS)	A/S	1	365		2151~LLL,2150~NS
	AAR	DAY HAAR PROC	3601	3601	3601	3601	D	A/S	1	365	2100	
	AAR	AAR PANEL PROC	3602	3602	3602	3602	(NS)	S/A	1	180	3600,3601	2151~LLL,2150~NS
	AAR	NIGHT HAAR PROC	3650	3650	3650	3650	NS	A/S	1	180	2100,3601	3601, 2151~LLL,2150~NS

KC-130J PILOT ATTAIN / MAINTAIN MATRIX												
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SER CONV POI	REFRESHER POI	MAINTAIN POI	COND	TYPE	# A/C or SIM	REFLY	PREREQUISITE	CHAINING
AVIATION DELIVERED GROUND REFUELING (ADGR)												
ADGR	ADGR	ADGR PROCEDURES	3660	3660	3660	3660	(NS)	A	1	730		
AIR DELIVERY (AD)												
AD	AD	INTRO TO PF AD	3700	3700			(NS)	S/A	1	*	2201	2151~LLL,2150~NS
	AD	INTRO TO PM AD	3701	3701			(NS)	S/A	1	*	3700	2151~LLL,2150~NS
	AD	PF CARGO AD	3702	3702	3702	3702	(NS)	A/S	1	90	3700	3703,3704,3705, 2151~LLL,2150~NS
	AD	PM CARGO AD	3703	3703	3703	3703	(NS)	A/S	1	90	3701	3702,3704,3705, 2151~LLL,2150~NS
	AD	PF PERSONNEL AD	3704	3704	3704	3704	(NS)	A/S	1	90	3700	3702,3703,3705, 2151~LLL,2150~NS
	AD	PM PERSONNEL AD	3705	3705	3705	3705	(NS)	A/S	1	90	3701	3702,3703,3704, 2151~LLL,2150~NS
4000 PHASE (CORE PLUS)												
TACTICAL NAVIGATION (TN)												
TN	TN	FORM TN PROCEDURES	4200	4200	4200	4200	(NS)	A	2+	365	2201,2300	2350~NS,2300,2201, 2151~LLL,2150~NS
NIGHT SYSTEMS LOW (NS(L))												
NS(L)	NS(L)	INTRO NSLAT PROC	4250	4250			HLL	S/A	1	*	NSQ(H),LATQ	2250
	NS(L)	NSLAT PROCEDURES	4251	4251	4251	4251	HLL	A	1	180	4250	2250,2261
THREAT REACTION (TR)												
TR	TR	INTRO GRND RADAR TR	4400	4400			(NS)	A/S	1	*	2400,2261,LATQ	2151~LLL,2150~NS
	TR	GROUND RADAR TR	4401	4401	4401	4401	(NS)	A	1	180	4400	2151~LLL,2150~NS
DEFENSIVE TACTICS (DT)												
DT	DT	1 VS. 1 DEFTAC	4410	4410	4410	4410	D	A	1	365	2261,2400,LATQ	
	DT	1 VS. 2 DEFTAC	4411	4411	4411	4411	D	A	1	365	4410	4410
AIR DELIVERY (AD)												
AD	AD	COMBINATION AD	4700	4700	4700	4700	(NS)	A	1	365	3702,3703,3704,3705	3702,3703,3704,3705, 2151~LLL,2150~NS
	AD	MFF AD	4701	4701	4701	4701	(NS)	A	1	365	3704,3705	2151~LLL,2150~NS
	AD	JPADS AD	4702	4702	4702	4702	(NS)	A	1	365	3702,3703	2151~LLL,2150~NS
BATTLEFIELD ILLUMINATION (BI)												
BI	BI	BATTLEFIELD ILLUM	4710	4710	4710	4710	N	A	1	365	3701	2151~LLL,2150~NS

KC-130J PILOT ATTAIN / MAINTAIN MATRIX												
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SER CONV POI	REFRESHER POI	MAINTAIN POI	COND	TYPE	# A/C or SIM	REFLY	PREREQUISITE	CHAINING
PILOT HARVEST HAWK (HH)												
HH	HH	HH GROUND FAM	4803	4803			D	S/A	1	*	4802	
	HH	HH FLIGHT FAM	4804	4804			D	A	1	*	4803	
PILOT BASIC AIR TO SURFACE (BAS)												
BAS	BAS	INTRO TO DAY WEAPONS EMPL	4860	4860			D	A	1	*	4804	
	BAS	DAY WEAPONS EMPL	4861	4861			D	A	1	*	4860	
	BAS	WEAPONS EMPLOYMENT	4862	4862			(N)	A	1	*	4860	
PILOT MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)												
MIR	MIR	MIR PROFICIENCY	4870	4870	4870	4870	(N)	A	1	365	4804	
PILOT CLOSE AIR SUPPORT (CAS)												
CAS	CAS	CAS	4880	4880	4880	4880	(N)	A	1	180	4861	
	CAS	URBAN CAS	4890	4890			(N)	A	1	*	4880	4880
FIRE CONTROL OFFICER (FCO)												
FCO HARVEST HAWK (HH)												
HH	HH	HH GROUND FAM (PTT)	4800	4800			D	S/A	1	*	APRB	
	HH	HH PTT FAM	4801	4801	4801	4801	D	S/A	1	180	4800	
	HH	HH FCC INTRO	4802	4802			D	A	1	*	4801	
	HH	HH GROUND FAM	4803	4803			D	S/A	1	*	4802	
	HH	HH FLIGHT FAM	4804	4804			D	A	1	*	4803	
FCO BASIC AIR TO SURFACE (BAS)												
BAS	BAS	INTRO TO DAY WEAPONS EMPL	4810	4810			D	S/A	1	*	4804	4801
	BAS	DAY WEAPONS EMPL	4811	4811			D	A	1	*	4810	4801
	BAS	LIVE WEAPONS EMPL	4812	4812			(N)	A	1	*	4810	4801
FCO MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)												
MIR	MIR	MIR PROFICIENCY	4820	4820	4820	4820	(N)	A	1	180	4804	4801
FCO CLOSE AIR SUPPORT (CAS)												
CAS	CAS	CAS	4830	4830	4830	4830	(N)	A	1	180	4811	4801
	CAS	URBAN CAS	4840	4840			(N)	A	1	*	4830	4801,-4830

2.25 KC-130J PILOT RANGE AND ORDNANCE MATRIX

KC-130J PILOT RANGE AND ORDNANCE MATRIX									
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	**FLIGHT TIME**	COND	TYPE	# A/C or SIM	REFLY	ORDNANCE
2000 PHASE (CORE)									
THREAT REACTION (TR)									
TR	TR	GROUND IR TR	2400	**2.0**	(NS)	A/S	1	180	30 OVERT/90 COVERT FLARES/SIM BUCKETS
4000 PHASE (CORE PLUS)									
THREAT REACTION (TR)									
TR	TR	INTRO GRND RADAR TR	4400	**2.0**	(NS)	A/S	1	*	300 CHAFF
	TR	GROUND RADAR TR	4401	**2.0**	(NS)	A	1	180	300 CHAFF
DEFENSIVE TACTICS (DT)									
DT	DT	1 VS. 1 DEFTAC	4410	**2.0**	D	A	1	365	120 FLARES SHOULD BE USED
	DT	1 VS. 2 DEFTAC	4411	**2.0**	D	A	1	365	120 FLARES SHOULD BE USED
BATTLEFIELD ILLUMINATION (BI)									
BI	BI	BATTLEFIELD ILLUM	4710	**2.0**	N	A	1	365	14(LUU-2/LUU-19)
FCO BASIC AIR TO SURFACE (BAS)									
BAS	BAS	DAY WEAPONS EMPL	4811	**2.5**	D	A	1	*	1 HELLFIRE CATM, 1 SOPGM CATM
	BAS	LIVE WEAPONS EMPL	4812	**2.5**	(N)	A	1	*	1 HELLFIRE,1 SOPGM
FCO MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)									
MIR	MIR	MIR PROFICIENCY	4820	**2.5**	(N)	A	1	180	1 HELLFIRE CATM, 1 SOPGM CATM
FCO CLOSE AIR SUPPORT (CAS)									
CAS	CAS	CAS	4830	**2.5**	(N)	A	1	180	1 HELLFIRE CATM, 1 SOPGM CATM
	CAS	URBAN CAS	4840	**2.5**	(N)	A	1	*	1 HELLFIRE CATM, 1 SOPGM CATM
PILOT BASIC AIR TO SURFACE (BAS)									
BI	BAS	DAY WEAPONS EMPL	4861	**2.5**	D	A	1	*	1 HELLFIRE CATM, 1 SOPGM CATM
	BAS	WEAPONS EMPLOYMENT	4862	**2.5**	(N)	A	1	*	1 HELLFIRE,1 SOPGM OR ASSOCIATED CATMS
PILOT MULTI-SENSOR IMAGERY RECONNAISSANCE (MIR)									
MIR	MIR	MIR PROFICIENCY	4870	**2.5**	(N)	A	1	365	1 HELLFIRE CATM, 1 SOPGM CATM
PILOT CLOSE AIR SUPPORT (CAS)									
CAS	CAS	CAS	4880	**2.5**	(N)	A	1	180	1 HELLFIRE CATM, 1 SOPGM CATM
	CAS	URBAN CAS	4890	**2.5**	(N)	A	1	*	1 HELLFIRE CATM, 1 SOPGM CATM
5000 PHASE (INSTRUCTOR TRAINING)									
HARVEST HAWK INSTRUCTOR (HHI)									
HHI	HH	HH IUT	5310	**3.0**	(N)	A	1	*	HELLFIRE CATM, SOPGM CATM
	HH	HHI CERTIFICATION	5311	**3.0**	(N)	A	1	*	HELLFIRE CATM, SOPGM CATM

2.26 KC-13J PILOT PREREQUISITE AND CHAINING (5000-6000 Phase)

KC-130J PILOT PREREQUISTE AND CHAINING (5000 - 6000 Phase)					
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	CHAINING
5000 PHASE (INSTRUCTOR TRAINING)					
BASIC INSTRUCTOR PILOT (BIP)					
BIP	BIP	BIP TRAINING	5100	2200,2201,2250,2251,3600,3601,3602,3650,3600	2201
	BIP	BIP CHECK	5101	5100	3650, 2151~LLL,2150~NS
ASSISTANT NATOPS INSTRUCTOR (ANI)					
ANI	NI	ANI TRAINING	5140	5101,APRB	
	NI	ANI CHECK	5141	5140	
FLEET REPLACEMENT SQUADRON INTRODUCTION (FRSI)					
FRSI	FRSI	FRSI TRAINING	5145	5141,APRB	
	FRSI	FRSI TRAINING	5146	5145	
	FRSI	FRSI CHECK	5147	5146	
FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR (FLSE)					
FLSE	FLSE	FLSE IUT	5320	IAW COURSE CATALOG	
	FLSE	FLSE CERTIFICATION	5321	IAW COURSE CATALOG	2151~LLL,2150~NS
	FLSE	FLSE QUARTERLY TRNG	5322	IAW COURSE CATALOG	
STAGE INSTRUCTOR (SI)					
SI	ALZ	ALZ STAGE INST CHK	5500	3500,3501,3502,3503,3550,5101,5152 OR 5141,APRB	3550, 2151~LLL,2150~NS
	AD	AD STAGE INST TRNG	5700	3700,3701,3702,3703,3704,3705,4701,4710,5101,APRB	2151~LLL,2150~NS
	AD	AD STAGE INST CHK	5701	5700	2151~LLL,2150~NS
NIGHT SYSTEMS INSTRUCTOR (NSI)					
NSI	NS(H)	NS(H) FAM IUT	5150	IAW COURSE CATALOG	2151~LLL,2150~NS
	NS(H)	NS (H) TN IUT	5151	IAW COURSE CATALOG	2251~LLL,2250~NS
	NS(H)	NSI CERTIFICATION	5152	IAW COURSE CATALOG	3550, 2251~LLL,2250~NS
LOW INSTRUCTOR (LATI)					
LATI	LAT	LAT IUT	5210	IAW COURSE CATALOG	2261
	LAT	LAT IUT	5211	IAW COURSE CATALOG	2400
	LAT	LATI CERTIFICATION	5212	IAW COURSE CATALOG	2261
NS LAT INSTRUCTOR (NSLATI)					
NSLATI	NS(L)	NSLAT IUT	5250	IAW COURSE CATALOG	2250,2261
	NS(L)	NSLATI CERTIFICATION	5251	IAW COURSE CATALOG	2250,2261
HARVEST HAWK INSTRUCTOR (HHI)					
HHI	HH	HH IUT	5310	IAW COURSE CATALOG	
	HH	HHI CERTIFICATION	5311	IAW COURSE CATALOG	
DEFENSIVE TACTICS INSTRUCTOR (DTI)					
DTI	DT	DT IUT	5410	IAW COURSE CATALOG	4410
	DT	DT IUT	5411	IAW COURSE CATALOG	4411
	DT	DTI CERTIFICATION	5412	IAW COURSE CATALOG	4410

KC-130J PILOT PREREQUISTE AND CHAINING (5000 - 6000 Phase)					
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	PREREQUISITE	CHAINING
6000 PHASE (REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (R,C,Q,D)					
NATOPS (NTPS)					
NTPS	NTPS	T3P NATOPS QUAL	6110	FCRM 1804	6120
	NTPS	T2P NATOPS QUAL	6111	6110,CSP COMPLETE, APRB,ACPM 82XX COMPLETE	6120
	NTPS	TPC UPGRADE SIM	6112	6111,APRB	6120
	NTPS	TPC UPGRADE SIM	6113	6112	6120
	NTPS	TPC UPGRADE SIM	6114	6113	6120
	NTPS	TPC UPGRADE SIM	6115	6114	6120
	NTPS	TPC UPGRADE SIM	6116	6115	6120
	NTPS	TPC ROUTE CHECK	6117	6111	2162
	NTPS	TPC NATOPS QUAL	6118	6116,6117,CSP/MSP COMPLETE, ACPM 83XX COMPLETE	6120
	NTPS	EP REVIEW	6120		
INSTRUMENTS (INST)					
INST	INST	STANDARD INST CHECK	6130		
	INST	SPECIAL INST CHECK	6131	6130	
SECTION LEAD (SL)					
SL	SL	SL PRACTICE	6300	2301,2350,4200,6118,5101,APRB, 2 WINGMAN FLIGHTS AS TPC	2350~NS,2300,2151~LLL,2150~NS
	SL	SL CERT	6301	6300,8630,8660	2350~NS,2300,2151~LLL,2150~NS
	SL	SL PROFICIENCY	6302	6301	2350~NS,2300,2151~LLL,2150~NS
DIVISION LEAD (DL)					
DL	DL	DL PRACTICE	6303	6302,8620,8640,8641,200 TPC HOURS,APRB, 2 FLIGHTS AS A SECTION LEAD	2350~NS,2301,2151~LLL,2150~NS
	DL	DL CERT	6304	6303,8620,8640,8641	2350~NS,2301,2151~LLL,2150~NS
	DL	DL PROFICIENCY	6305	6304	2350~NS,2301,2151~LLL,2150~NS
RAC					
RAC	RAC	INTRO TO TACRAC	6310	3600,3650,6111	2151~LLL,2150~NS
	RAC	TACRAC CERT	6311	6310,6118,APRB	2151~LLL,2150~NS
	RAC	TACRAC PROF	6312	6311	2151~LLL,2150~NS
	RAC	STRATRAC CERT	6313	6304,6311,APRB	6312,2151~LLL,2150~NS
	RAC	STRATRAC PROF	6314	6313	6312,2151~LLL,2150~NS
FUCTIONAL CHECK PILOT (FCP)					
FCP	FCP	PART FCP CERT/PROF	6105	6118,APRB	
	FCP	FCP CERTIFICATION	6106	6105,150 TPC HOURS, 3 FCFS, APRB	6105

2.27 KC-130J PILOT T&R MATRIX (7000 Phase)

KC-130J PILOT T&R SYLLABUS MATRIX (7000 Phase)								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	BASIC POI	CONDITION	TYPE	NUMBER	EVENT CONV
7000 PHASE MET ASSESSMENT								
MET	MET	CONDUCT AVIATION OPERATIONS FROM EXPEDITIONARY SHORE-BASED SITES	7001	X	(NS)	A	2	NEW
	MET	CONDUCT COMBAT ASSAULT TRANSPORT	7002	X	(NS)	A	2	NEW
	MET	CONDUCT AIR-TO-AIR REFUELING	7003	X	(NS)	A	2	NEW
	MET	PROVIDE AVIATION-DELIVERED GROUND REFUELING	7004	X	(NS)	A	2	NEW
	MET	CONDUCT AIR DELIVERY	7005	X	(NS)	A	2	NEW
	MET	PROVIDE AVIATION-DELIVERED BATTLEFIELD ILLUMINATION	7006	X	(NS)	A	2	NEW
	MET	CONDUCT CLOSE AIR SUPPORT	7007	X	(NS)	A	2	NEW
	MET	CONDUCT MULTI-SENSORY IMAGERY RECONAISSANCE	7008	X	(NS)	A	2	NEW

2.28 KC-130J PILOT T&R MATRIX (8000 Phase)

KC-130J PILOT T&R SYLLABUS MATRIX (8000 Phase)								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	BASIC POI	ACAD #	ACAD TIME	TYPE	EVENT CONV
8000 PHASE AVIATION CAREER PROGRESSION MODEL								
ACPM CORE SKILL								
ACPM	ACPM	MACCS AGENCIES	8200	X		0.5	G	8200
	ACPM	MWCS BRIEF	8201	X		0.5	G	8201
	ACPM	ACA AND AIRSPACE	8202	X		0.8	G	8202
	ACPM	AVIATION GRND SPRT	8210	X		0.7	G	8210
	ACPM	ACE BATTLE STAFF	8230	X		1.0	G	8230
	ACPM	BATTLE COMMAND DISPLAY	8231	X		1.0	G	8231
	ACPM	SIX FUNCTIONS	8240	X		1.7	G	8240
	ACPM	JTAR/ASR INTRO	8241	X		1.3	G	8241
	ACPM	SITE COMMANDER PRIMER	8242	X		1.0	G	8242
	ACPM	THEATRE AIR GRD SYS (TAGS)	8250	X		0.8	G	8250
ACPM MISSION SKILL								
ACPM	ACPM	AIR DEFENSE	8300	X		0.8	G	8300
	ACPM	FARP OPS	8310	X		0.8	G	8310
	ACPM	MC TACTICAL FUEL SYSTEM	8311	X		0.8	G	8311
	ACPM	JOINT STRUC & JOINT AIR OPS	8320	X		1.0	G	8320
	ACPM	JOINT AIR TASKING PHASE 1	8321	X		0.3	G	8321
	ACPM	JOINT AIR TASKING PHASE 2	8322	X		0.3	G	8322
	ACPM	JOINT AIR TASKING PHASE 3	8323	X		0.3	G	8323
	ACPM	JOINT AIR TASKING PHASE 4	8324	X		0.3	G	8324
	ACPM	JOINT AIR TASKING PHASE 5	8325	X		0.3	G	8325
	ACPM	JOINT AIR TASKING PHASE 6	8326	X		0.3	G	8326
	ACPM	INTEGRATING FIRES	8340	X		0.5	G	8340
	ACPM	ESTABLISHING CONTROL ASHORE	8350	X		0.8	G	8350
	ACPM	TACRON	8351	X		1.0	G	8351
ACPM FLIGHT LEADERSHIP (SECTION LEADER)								
	ACPM	TACC	8630	X		1.0	G	8630
	ACPM	JOINT OPS INTRO	8660	X		0.4	G	8660
ACPM FLIGHT LEADERSHIP (DIVISION LEADER)								
	ACPM	JOINT DATA NETWORK	8640	X		0.8	G	8640
	ACPM	ISR EMPLOYMENT	8641	X		0.3	G	8641
	ACPM	ESG/CSG INTEGRATION	8620	X		1.0	G	8620
ACPM TOTAL					28	20.3		

2.29 TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEM MATRIX (MESM). This EESM applies to the FRD for all Basic, Series Conversion, and Modified Refresher students. Fleet squadrons have the authority to deviate from the matrix at the squadron commanding officer's discretion.

KC-130J SIMULATOR MISSION ESSENTIAL SUBSYSTEM MATRIX (MESM) (2F199)		
Failed Sub-System	**PMC For:**	**NMC For:**
Hydraulics	Any CPT	Any non-CPT event
Aural	Any CPT	
Visual	Any CPT	Any non-CPT event
NVG Visual		Any NS event
NVIS Lighting		Any NS event
TEN		Any TR event
Lead-ship		Any FORM or AAR event
RadAlts (2)	1 failed RadAlt: Any event	2 RadAlts failed: Any TN, LAT, AD, ALZ, NS, TR, or FAM event
Digimap	TN-1201/1202 and AD	LAT or TN-1200
HUD (2)	1 failed HUD: CPT 1100-1103 and 1106-1110, any FAM event, and any tactical event	2 HUDs failed: CPT-1104/1105/1111, any FAM event, and any tactical event
Flight Director (2)	1 failed FD: Any event	2 failed FD: FAM 1116-1131, AD, ALZ, NS, TN, and LAT events
Normal Trim	1 failed yoke trim switch: Any event	2 yoke trim switches failed: Any event
AMU (2)	1 failed AMU: Any event	2 AMUs failed: Any event
CNBP	Any FAM or tactical event	CPT-1109
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
Standby Attitude	Any event	
Standby Airspeed, Altimeter	Any event	

2.30 SYLLABUS EVALUATION FORMS

Admin Notes. Aviation Training Forms are maintained by MAWTS-1 on the KC-130 Division TECOM website

CHAPTER 3 - CREWMASTER (MOS 6276) SYLLABUS

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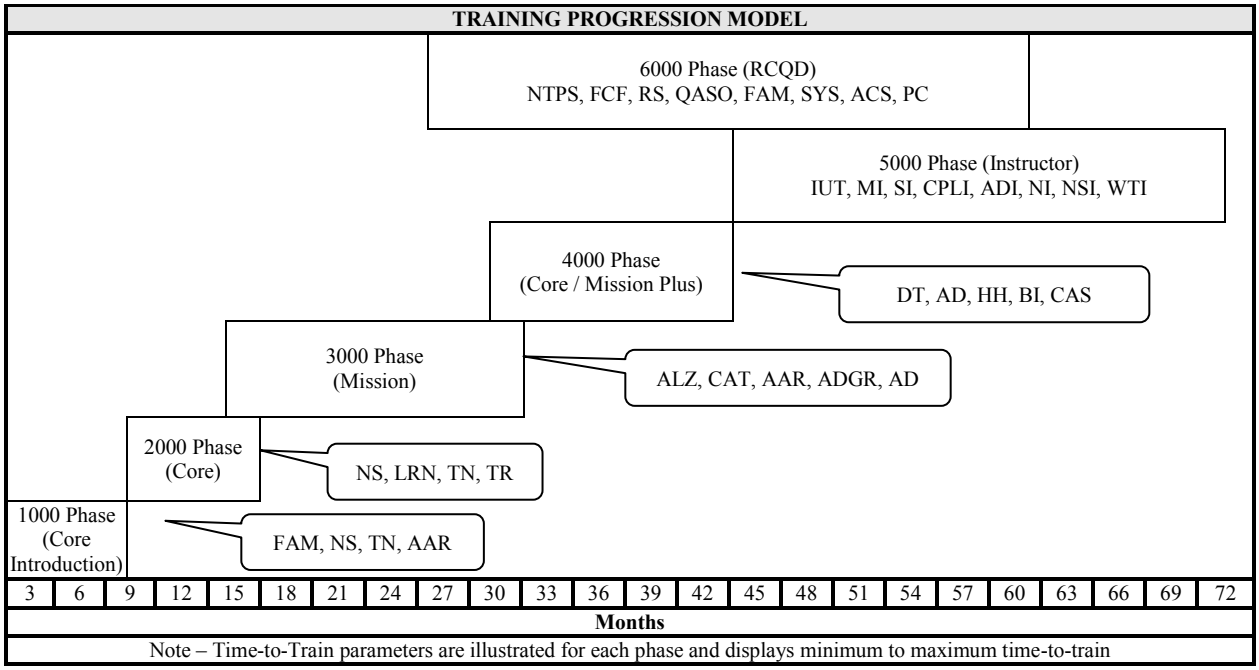
CHAPTER 3 - CREWMASTER (MOS 6276) SYLLABUS

3.0 CREWMASTER SYLLABUS T&R REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core, Mission, Core Plus, and Mission Plus Skills. The goal of this chapter is to develop individual and unit war fighting capabilities.

3.1 TRAINING PROGRESSION MODEL. Represents the recommended training progression for the KC-130J Crewmaster. This model represents minimum to maximum time to train.



3.2 PROGRAMS OF ISNTRUCTION (POI)

3.2.1 General. Represents the average POI time-to-train by Phase.

3.2.2 Basic (B) POI. The Basic Crewmaster shall execute those events annotated with a B.

WEEKS	PHASE	PERFORMING ACTIVITY
16	Core Introduction	FRD East / FRD West / Tactical Squadron
12	Core	Tactical Squadron
20	Mission	Tactical Squadron
2	Core Plus	Tactical Squadron
8	Mission Plus	Tactical Squadron

3.2.3 Series Conversion (S) POI. The series conversion Crewmaster shall execute those events annotated with an S. Commanding officers will review the qualifications, previous experience, currency, and demonstrated ability of series conversion Crewmasters with a view toward combining required flights.

WEEKS	PHASE	PERFORMING ACTIVITY
8	Core Introduction	FRD East / FRD West / Tactical Squadron
2	Core	Tactical Squadron
0	Mission	Tactical Squadron
0	Core Plus	Tactical Squadron
2	Mission Plus	Tactical Squadron

3.2.4 Refresher (R) POI. The refresher Crewmaster shall execute those events annotated with an R. Commanding officers will review the qualifications, previous experience, currency, and demonstrated ability of refresher Crewmasters with a view toward combining required flights.

WEEKS	PHASE	PERFORMING ACTIVITY
2	Core Introduction	Tactical Squadron
8	Core	Tactical Squadron
12	Mission	Tactical Squadron
0	Core Plus	Tactical Squadron
6	Mission Plus	Tactical Squadron

3.3 PROFICIENCY & CURRENCY

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

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

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a proficiency period (Maintain events). Proficiency periods establish the maximum time between event demonstrations. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the event(s) that are not proficient. An individual shall complete delinquent events with a proficient Crewmaster.

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

Loss of Unit Skill Proficiency. If an entire unit loses proficiency in an event, unit instructors shall regain proficiency by completing the event with an instructor for a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. If a unit has only one instructor and cannot complete the event an instructor from another unit, the instructor shall regain proficiency as designated by the commanding officer.

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

3.3.3 Skill Currency. Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill applies to all MOSs that must comply with NATOPS and OPNAV requirements. It is a measure of time since the last event demanding that specific skill.

3.4 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (RCQD) TABLES. The table below delineates T&R events required to be proficient or waived to attain Requirements, Certifications, Qualifications, and Designations. Waiving of all required events leading to a Requirements, Certification, Qualification, or Designation is not allowed.

Requirements	Requirements and Prerequisites
QTREP	6120R
Qualifications	**Qualifications and Prerequisites**
NSQ	2150R
FCF(P)	6105R
FCF(F)	6107R
RS	6660R
QASO	6710R
* CM1 includes PC designation in ASM.	
Designations	**Designations and Prerequisites**
CM3	6110R
CM2	6111R
CM1	6118R *
CMCC	6112R
CMLM	6113R
MI	5102R
SI	5103R
CPLI	5510R
ADI	5701R
CM NI/ANI	5141R
CMCC NI/ANI	5142R
CMLM NI/ANI	5143R
NSI	5152R, MAWTS-1 KC-130J Course Catalog Requirements
WTI	MAWTS-1 KC-130J Course Catalog Requirements
* CM1 includes PC designation in ASM.	

3.5 SYLLABUS NOTES

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

3.5.2 All events, to include simulators, shall terminate with a comprehensive debrief with emphasis on performance, knowledge, and CRM.

3.5.3 An ATF is required for any initial event completed unless a specific event states an ATF is not required. If the commanding officer has waived/deferred an event, the waiver/deferral letter shall be placed in section 3 of the APR.

3.5.4 Pre-event training is sponsored, developed, maintained, and published by both the KC-130J FRD and MAWTS-1 KC-130J Course Catalogs. The KC-130J FRD and MAWTS-1 KC-130J Course Catalogs will list the required pre-event requirements by phase, stage, and/or event in the admin notes or prerequisites. Any pre-event requirements shall also be stated on all ATFs.

3.5.5 The series conversion POI applies to all crew positions (FE, FM, and CM) converting from the KC-130T to the KC-130J aircraft. Aircrew Performance Records should be reviewed to evaluate previous experience for waiver of any series conversion events and to determine if any basic POI events should be required.

3.5.6 The refresher POI applies to all CM3, CM2, and CM1 Crewmasters returning to the KC-130J after an absence of more than 540 days out of the aircraft.

3.5.7 The refresher POI also applies to all CMCC and CMLM Crewmaster returning to the KC-130J after an absence of more than 540 days out of the aircraft. However, CMCC and CMLM shall not re-qualify as CMCC and CMLM. They will complete the additional requirements established in the KC-130J FRD Course Catalog as well as any refresher POI events for CM3 qualification.

3.5.8 Current CMCC Crewmasters must complete the additional requirements established in the KC-130J FRD Course Catalog for either CM3, CM2, or CM1 qualification. These requirements must be complete within one year of the date of this manual.

3.5.9 Current CMLM Crewmasters must complete the additional requirements established in the KC-130J FRD Course Catalog for CM3 qualification. These requirements must be complete within one year of the date of this manual.

3.5.10 The initial qualification after the Core Skill Introduction Phase (1000) completion and successful NATOPS

evaluation is the CM3. A CM3 qualification is the foundation of further training toward duties at the ACS and qualification as a PC. A CM3 is qualified to conduct exterior and interior preflight, weight and balance calculations, exterior engine start monitoring, cargo compartment monitoring, and normal and emergency procedures. A CM3 will be capable of conducting observer duties, cargo and passenger loading/offloading, air delivery, aviation delivered ground refueling, battlefield illumination, and harvest HAWK missions once complete with the required events in the Core Phase and above training. A CM3 shall not be assigned to a crew unless accompanied by a CM2, CM1, or CMCC.

3.5.11 The next qualification level of the Crewmaster is the CM2. The CM3 after recommendation at the squadron APRB will complete the FAM and SYS stages as required in the Requirements, Certifications, Qualifications, and Designations Phase (6000). After completion of FAM and SYS stages, and successful NATOPS evaluation the CM3 will be qualified and re-designated a CM2. A CM2 is qualified to conduct all duties of a CM3 with the addition of flight station preflight and all normal ACS duties. A CM2 is the minimum required for a crew in addition to a pilot and copilot.

3.5.12 The last qualification level of the Crewmaster is CM1. The CM2 after recommendation at the squadron APRB will complete PC events as required in the Requirements, Certifications, Qualifications, and Designations Phase (6000). After completion of PC events and successful NATOPS evaluation the CM2 will be qualified and re-designated a CM1. A CM1 is qualified to conduct all duties of a CM2 with addition to PC duties as required by COMNAVAIRFORINST 4790.2, and squadron SOP. These duties will include inspections, servicing, and minor expeditionary maintenance Requirements.

3.5.13 COMNAVAIRFORINST 4790.2 authorizes “commands where Naval Aircrew perform the functions of a plane captain, completion of the training curriculum and the designation as a Naval Aircrew by the Commanding Officer per the NATOPS Evaluation Report (OPNAV 3710/7) shall qualify the aircrew for plane captain duties. In such cases, the Naval Aircrew training syllabus must include all plane captain qualifications and requirements. Naval Aircrew qualified as plane captains per this paragraph, are not required to take a separate plane captain examination, appear before a Plane Captain Selection board, or be designated via the Plane Captain Designation (CNAF 4790/158)”. After completion of the required embedded PC events in the Requirements, Certifications, Qualifications, and Designations Phase (6000) and successful NATOPS evaluation, a signed copy of the designation letter and OPNAV 3710/7 form shall be scanned into ASM under Plane Captain Designation and routed for signature by the Commanding Officer or designee. Crewmasters qualified as Plane Captains prior to this syllabus utilized the ASM Plane Captain Syllabus tasks list therefor the directions given above do not apply. Plane Captain Periodicals will also be conducted in accordance with COMNAVAIRFORINST 4790.2.

3.5.14 Event Conditions

Code	Description
D	Shall be conducted during hours of daylight.
N	Shall be conducted during hours of darkness, may be aided or unaided.
(N)	May be conducted during darkness. If flown during hours of darkness it may be flown aided or unaided.
NS	Shall be conducted during hours of darkness and mandatory use of night vision devices.
HLL	Shall be conducted at night aided under high light level conditions.
LLL	Shall be conducted at night aided under low light level conditions.

3.5.15 Device Matrix

Code	Description
A	Conducted in aircraft
S	Conducted in simulator
G	Ground
A/S	Conducted in aircraft preferred but may be conducted in simulator
S/A	Conducted in simulator preferred but may be conducted in aircraft
G/S	Conducted on the ground preferred but may be conducted in simulator
S/G	Conducted in simulator preferred but may be conducted on the ground

3.5.16 Program of Instruction Matrix

POI	Code	Description
Basic	B	Initial MOS and Skill Training (Conversions and Transitions will be assigned Basic POI)
Series Conversion	S	Moving from one T/M/S to another (KC-130T to KC-130J)
Refresher	R	Return to same T/M/S from non-flying tour
Maintain	M	All individuals who have attained CSP/MSP/CPSP/MPSP by initial POI assignment are re-assigned to the M POI to maintain proficiency

3.5.17 Event Terms

Term	Description
Discuss	An explanation of systems, procedures, or maneuvers during the brief, in flight, or post flight. Trainee is responsible for knowledge of procedures.
Demonstrate	The description and performance of a particular maneuver/event by the instructor, observed by the trainee. The trainee is responsible for knowledge of the procedures prior to the demonstration of a required maneuver.
Introduce	The instructor may demonstrate a procedure or maneuver to a trainee, or may coach the trainee through the maneuver without demonstration. The trainee performs the procedures or maneuver with coaching as necessary. The trainee is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the trainee that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of a maneuver by the trainee.
Evaluate	Any flight designed to evaluate aircrew standardization that does not fit another category such as SARCK, HACCK, T2PCK, etc.

3.5.18 Additional Training Courses Available

Course	Unit
Aircraft Weight and Balance Course	CNATT
Hazardous Materials Preparer Course	Newport, RI or Ft. Lee, VA
Forklift Operators Course	MWSS or Base Motor Transport
Joint Airdrop Inspector Course	Ft. Lee, VA
Advanced Airlift Tactical Training Course (AATTC)	St. Joseph, MO
Basic Instructor Training Course	MCB Lejeune, NC or MCB Camp Pendleton, CA
Crew Resource Management Instructor	NAS Pensacola, FL or Mobile Training Team

3.5.19 Syllabus References

References
Aviation T&R Program Manual (NAVMC 3500.14)
NATOPS General Flight and Operations Instruction (OPNAVINST 3710.7)
NATOPS General Flight and Operations Instruction (MCO 3710.8)
Crew Resource Management Program (OPNAVINST 1542.7)
Navy and Marine Corps Crew Resource Management Program (COMNAVAIRFORINST 1542.7)
Marine Corps Safety Program (MCO 5100.29)
Naval Aviation Maintenance Program (COMNAVAIRFORINST 4790.2)
Organization Maintenance Publications (General Vehicle, General Systems, Job Guides, Fault Isolations, Individual Parts Breakdown, and Wiring Diagrams for the KC-130J)
KC-130J NATOPS Flight Manual (NAVAIR 01-75GAJ-1)
KC-130J NATOPS Flight crew Quick Reference Handbook (NAVAIR 01-75GAJ-1.5)
KC-130J NATOPS Functional Flight Check (FCF) Checklist (NAVAIR 01-75GAJ-1F)
KC-130J Naval Aviation Technical Information Product (NTRP 3-22.4-KC130J)
Combat Aircraft Fundamentals KC-130 (Air NTTP 3-22.3-KC130)
Tactical Pocket Guide KC-130 (Air NTTP 3-22.5-KC130)
Air-to-Air Refueling Manual (ATP-3.3.4.2)
Cargo Loading Manual (NAVAIR 01-75GAA-9)
Air Delivery Rigging Manuals (MCRP 4-11.3 Series)
MAWTS-1 WTI Course Catalog
MAWTS-1 KC-130J Course Catalog
KC-130J FRD Course Catalog

3.6 CORE INTRODUCTION PHASE

Purpose. The purpose of this phase is to instruct the CMT in basic KC-130J fundamentals, and introduce mission elements.

General. At the completion of this phase the CMT will be a NATOPS qualified CM3, MOS 6276 designated, and receive Aircrew insignia. A CM3 is qualified to conduct exterior and interior preflight, weight and balance calculations, exterior engine start monitoring, cargo compartment monitoring, and normal and emergency procedures. A CM3 will be capable of conducting observer duties, cargo and passenger loading/offloading, air delivery, aviation delivered ground refueling, battlefield illumination, and harvest HAWK missions once complete with the required events in the Core Phase and above training. A CM3 shall not be assigned to a crew unless accompanied by a CM2, CM1, or CMCC.

Phase Overview. The following stages are included in the Core Introduction Phase of training.

Stage	Paragraph	Page Number
FAM	3.7.1	3-8
NS	3.7.2	3-15
TN	3.7.3	3-16
AAR	3.7.4	3-16

Admin Notes. FRD East, FRD West, or operational squadrons may conduct this phase of training. Pre-event requirements in accordance with the KC-130J FRD Course Catalog.

Prerequisites. NACCS, SERE, BLM, LIQ, LMQ, and CMIAMC. Alternate prerequisites for BLM/LIQ/LMQ/CMIAMC may also be authorized by the KC-130J FRD in accordance with the KC-130J Course Catalog. The alternates are only available for CMCC, CMLM, and series conversions.

3.7 CORE INTRODUCTION STAGES

3.7.1 Familiarization (FAM)

Purpose. The purpose of this stage is to provide the CMT practice and review in performing Electrical Power application, Aircraft Servicing, and Inflight and Emergency Procedures.

General. This stage is the performance of basic KC-130J fundamentals on actual flights building upon the academics and labs conducted at the KC-130J FRD. At the completion of this stage the CMT is ready for initial NATOPS CM3 evaluation provided the remaining Core Introduction stages have been completed.

FAM Overview. The following events are included in the FAM stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
FAM-1000	3.0	*	B,S	(N)	G	1	Electrical Power Application
FAM-1001	3.0	*	B,S	(N)	G	1	Aircraft Servicing
FAM-1100	3.0	*	B,S	(N)	A	1	Inflight and Emergency Procedures
FAM-1101	3.0	*	B,S	(N)	A	1	Inflight and Emergency Procedures
FAM-1102	3.0	*	B,S	(N)	A	1	Inflight and Emergency Procedures
FAM-1103	5.0	*	B,S,R	(N)	A	1	Inflight and Emergency Procedures

FAM-1000 3.0 * B,S (N) G 1 KC-130J

Goal. Review electrical power application.

Requirements

- Review
  - Connecting and disconnecting external electrical power
    - Equipment Conditions
    - Preparation for connecting external electrical power
    - Connecting external electrical power
    - Disconnecting external electrical power
  - Operation of APU
    - Equipment conditions
    - Preparation for starting APU
    - Starting APU
    - Pressurize bleed air manifold
    - Operation of air conditioning system with APU
    - Normal shutdown of APU

Emergency shutdown of APU

Performance Standard. NFM Chapter 2 and 7, and applicable job guides of NAVAIR 01-75GAJ-00JG-00-1 and 01-75GAJ-49JG-00-1.

Instructor. SI.

FAM-1001 3.0 * B,S (N) G 1 KC-130J

Goal. Review Aircraft Servicing.

Requirements

Review
- Refueling and Defueling procedures
  - Equipment conditions
  - Refueling airplane (SPR method)
  - Refueling airplane (Over-the-wing method)
  - Transfer of fuel between fuel tanks
  - Defueling airplane (SPR method)
  - Main and external tank fuel tank fuel quantity using dipstick
  - Auxiliary tank fuel tank fuel quantity using sight gauge
  - Tank Capacities
  - Authorized fuels
- Hydraulic Servicing Procedures
  - Equipment conditions
  - Servicing hydraulic system reservoirs
  - Reservoir capacities
  - Authorized hydraulic fluids
- Oil Servicing Procedures
  - Equipment conditions
  - Servicing APU oil tank
  - Servicing engine oil system
  - Servicing engine starter
  - Oil tank capacities
  - Authorized oil fluids
- Lavatory Servicing Procedures
  - Equipment conditions
  - Servicing troop toilet and urinals

Performance Standard. NFM Chapters 3, 4, and 7; and applicable job guides of NAVAIR 01-75GAJ-12JG-10-1 and 01-75GAJ-12JG-21-1.

Instructor. SI.

FAM-1100 3.0 * B,S (N) A 1 KC-130J

Goal. Introduce In-flight Procedures.

Requirements

Introduce
- Acquiring aircraft provisions
  - Coffee and water
  - Galley supplies
- Publications library and forms
- Aircraft communications
  - Get home control
  - CNI-MU and CNBP communication control
  - ICS and radio control panels
- Before start checklist
  - Ramp and door controls

NLG pin and chocks
Engine start procedure
Engine start monitoring
Removing external GSE
Before taxi checklist
Crew and door
Hydraulic quantities
Passengers and cargo
Belts and harnesses
Cargo compartment general condition
Taxi clearance observation and reverse taxi directing
After takeoff checklist
Wings, engines, hydraulics
Cargo compartment general condition
In-flight
Passenger and cargo monitoring
Cargo compartment monitoring
In-range checklist
Passenger and cargo security
After landing checklist
CMDS safety pins
Shutdown checklist
Crew entrance door
Chocks and NLG pin
Emergency procedures
Ground evacuation
APU fire (ground/In-flight)
Engine fire
Wing fire
Pod fire
Brake fire
Fire/Smoke/Fumes elimination
Electrical fire
Restoring pressurization procedure
Rapid decompression
EPOS
Cargo compartment window failure
Practice
Aircraft discrepancies screening
Cranial and toolbox keys checkout
RMM, DTADS, maintenance publications, and tire pressure gauge checkout
Toolbox ATAF
External preflight
Interior preflight
APU Operation (FAM-1000)
Weight and balance
Post flight

Performance Standard. NFM and 01-75GAJ-1.5.

Instructor. SI.

FAM-1101 3.0 * B,S (N) A 1 KC-130J

Goal. Practice In-flight Procedures.

Requirements

Introduce

- Emergency procedures
  - Engine shutdown (In-flight) for Propeller fails to feather
  - Visible fluid leaks
  - Fuel dumping
  - Electrical systems failures
  - Battery power only considerations
  - BIU backup mode
  - Hydraulic system pressure lo/loss/leak
  - Excessive hydraulic system pressure
  - Loss of utility, booster, or auxiliary hydraulic system considerations
  - Landing gear failure procedures
  - Flaps failure procedures
  - Flight control systems failure procedures
  - In-flight crew door and ramp warning procedures
  - Landing emergency procedures
  - Bailout procedures

Practice

- Acquiring aircraft provisions
  - Coffee and water
  - Galley supplies
- Publications library and forms
- Aircraft discrepancies screening
- Cranial and toolbox keys checkout
- RMM, DTADS, maintenance publications, and tire pressure gauge checkout
- Toolbox ATAF
- External preflight
- Interior preflight
- APU Operation (FAM-1000)
- Weight and balance
- Aircraft communications
  - Get home control
  - CNI-MU and CNBP communication control
  - ICS and radio control panels
- Before start checklist
  - Ramp and door controls
  - NLG pin and chocks
- Engine start procedure
  - Engine start monitoring
  - Removing external GSE
- Before taxi checklist
  - Crew and door
  - Hydraulic quantities
  - Passengers and cargo
  - Belts and harnesses
  - Cargo compartment general condition
- Taxi clearance observation and reverse taxi directing
- After takeoff checklist
  - Wings, engines, hydraulics
  - Cargo compartment general condition
- In-flight
  - Passenger and cargo monitoring
  - Cargo compartment monitoring
- In-range checklist
  - Passenger and cargo security
- After landing checklist
  - CMDS safety pins

Shutdown checklist
Crew entrance door
Chocks and NLG pin
Post flight
Emergency procedures
Ground evacuation
APU fire (Ground/In-flight)
Engine fire
Wing fire
Pod fire
Brake fire
Fire/Smoke/Fumes elimination
Electrical fire
Restoring pressurization procedure
Rapid decompression
EPOS
Cargo compartment window failure

Performance Standard. NFM and 01-75GAJ-1.5.

Instructor. SI.

Prerequisite. FAM-1100.

FAM-1102 3.0 * B,S (N) A 1 KC-130J

Goal. Practice in-flight procedures.

Requirements

Practice
Emergency procedures
Engine shutdown (In-flight) for Propeller fails to feather
Visible fluid leaks
Fuel dumping
Electrical systems failures
Battery power only considerations
BIU backup mode
Hydraulic system pressure lo/loss/leak
Excessive hydraulic system pressure
Loss of utility, booster, or auxiliary hydraulic system considerations
Landing gear failure procedures
Flaps failure procedures
Flight control systems failure procedures
In-flight crew door and ramp warning procedures
Landing emergency procedures
Bailout procedures
Review
Acquiring aircraft provisions
Coffee and water
Galley supplies
Publications library and forms
Aircraft discrepancies screening
Cranial and toolbox keys checkout
RMM, DTADS, maintenance publications, and tire pressure gauge checkout
Toolbox ATAF
External preflight
Interior preflight
Weight and balance

Aircraft communications
- Get home control
- CNI-MU and CNBP communication control
- ICS and radio control panels

Before start checklist
- Ramp and door controls
- NLG pin and chocks

Engine start procedure
- Engine start monitoring
- Removing external GSE

Before taxi checklist
- Crew and door
- Hydraulic quantities
- Passengers and cargo
- Belts and harnesses
- Cargo compartment general condition

Taxi clearance observation and reverse taxi directing

After takeoff checklist
- Wings, engines, hydraulics
- Cargo compartment general condition

In-flight
- Passenger and cargo monitoring
- Cargo compartment monitoring

In-range checklist
- Passenger and cargo security

After landing checklist
- CMDS safety pins

Shutdown checklist
- Crew entrance door
- Chocks and NLG pin

Post flight

Emergency procedures
- Ground evacuation
- APU fire (Ground/In-flight)
- Engine fire
- Wing fire
- Pod fire
- Brake fire
- Fire/Smoke/Fumes elimination
- Electrical fire
- Restoring pressurization procedure
- Rapid decompression
- EPOS
- Cargo compartment window failure

Performance Standard. NFM and 01-75GAJ-1.5.

Instructor. SI.

Prerequisite. FAM-1101.

FAM-1103 5.0 * B,S,R (N) A 1 KC-130J

Goal. Review in-flight procedures

Requirements

Introduce
- Reverse taxi procedures

- Review
  - Acquiring aircraft provisions
    - Coffee and water
    - Galley supplies
  - Publications library and forms
  - Aircraft discrepancies screening
  - Cranial and toolbox keys checkout
  - RMM, DTADS, maintenance publications, and tire pressure gauge checkout
  - Toolbox ATAF
  - External preflight
  - Interior preflight
  - Weight and balance
  - Aircraft communications
    - Get home control
    - CNI-MU and CNBP communication control
    - ICS and radio control panels
  - Before start checklist
    - Ramp and door controls
    - NLG pin and chocks
  - Engine start procedure
    - Engine start monitoring
    - Removing external GSE
  - Before taxi checklist
    - Crew and door
    - Hydraulic quantities
    - Passengers and cargo
    - Belts and harnesses
    - Cargo compartment general condition
  - Taxi clearance observation and reverse taxi directing
  - After takeoff checklist
    - Wings, engines, hydraulics
    - Cargo compartment general condition
  - In-flight
    - Passenger and cargo monitoring
    - Cargo compartment monitoring
  - In-range checklist
    - Passenger and cargo security
  - After landing checklist
    - CMDS safety pins
  - Shutdown checklist
    - Crew entrance door
    - Chocks and NLG pin
  - Post flight
  - Emergency procedures
    - Ground evacuation
    - APU fire (Ground/In-flight)
    - Engine fire
    - Wing fire
    - Pod fire
    - Brake fire
    - Fire/Smoke/Fumes elimination
    - Electrical fire
    - Restoring pressurization procedure
    - Rapid decompression
    - EPOS
    - Cargo compartment window failure

Engine shutdown (In-flight) for Propeller fails to feather
Visible fluid leaks
Fuel dumping
Electrical systems failures
Battery power only considerations
BIU backup mode
Hydraulic system pressure lo/loss/leak
Excessive hydraulic system pressure
Loss of utility, booster, or auxiliary hydraulic system considerations
Landing gear failure procedures
Flaps failure procedures
Flight control systems failure procedures
In-flight crew door and ramp warning procedures
Landing emergency procedures
Bailout procedures

Performance Standard. NFM and 01-75GAJ-1.5.

Instructor. SI.

Prerequisite. FAM-1102.

3.7.2 Night Systems (NS(H))

Purpose. The purpose of this stage is to introduce the CMT to the use of NVDs in the night environment.

General. At the completion of this stage the CMT is ready for initial NSQ after acquiring the minimum NVD hours required according to the MAWTS-1 KC-130J Course Catalog.

NS(H) Overview. The following events are included in the NS(H) stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
NS(H)-1150	3.0	*	B	HLL	A	1	NVD High Light Environment
NS(H)-1151	3.0	*	B	LLL	A	1	NVD Low Light Environment

Admin Notes

(1) All requirements of FAM-1103 may be observed for all events of this stage.

(2) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

NS(H)-1150 3.0 * B HLL A 1 KC-130J

Goal. Introduce the use of NVDs in a high light level environment.

Requirements

Introduce
NVD checkout, inspection, alignment, and adjustment
NVD features
NVD failures
Astronomical data
Donning and doffing procedures
Exterior lighting in Normal, NVIS, and covert in the high light environment
Interior lighting in Normal, NVIS, and covert in the high light environment
Terrain, water, cultural lighting, and visual illusions in high light level environment
Effects of weather on NVDs
Scanning, field of view, and field of regard
Effects on individuals using NVDs (C3I2)

Performance Standard. Air NTTP and MAWTS-1 NVD Manual.

Instructor. NSI.

Prerequisite. FAM-1103.

NS(H)-1151 3.0 * B LLL A 1 KC-130J

Goal. Introduce the use of NVDs in a low light level environment.

Requirements

Introduce
- Exterior lighting in Normal, NVIS, and covert in the low light environment
- Interior lighting in Normal, NVIS, and covert in the low light environment
- Terrain, water, cultural lighting, and visual illusions in low light level environment

Review
- NVD checkout, inspection, alignment, and adjustment
- NVD features
- NVD failures
- Astronomical data
- Donning and doffing procedures
- Effects of weather on NVDs
- Scanning, field of view, and field of regard
- Effects on individuals using NVDs (C3I2)

Performance Standard. Air NTTP and MAWTS-1 NVD Manual.

Instructor. NSI.

Prerequisite. FAM-1150.

3.7.3 Tactical Navigation (TN)

Purpose. The purpose of this stage is to introduce the CMT to aft observer duties in the tactical navigation environment.

TN Overview. The following events are included in the TN stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
TN-1200	2.0	*	B	D	A	1	Tactical Navigation

Admin Notes.

(1) All requirements of FAM-1103 may be observed for all events of this stage.

(2) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

TN-1200 2.0 * B D A 1 KC-130J

Goal. Introduce aft observer duties on a day tactical navigation environment.

Requirements

Introduce
- Lookout doctrine
- Scanning for threats
- Scanning for terrain clearance
- Crew coordination
- FENCE checklist
- Maneuvering and low altitude environment terminology

Performance Standard. Air NTTP.

Instructor. MI.

Prerequisite. FAM-1103.

3.7.4 Air-to-Air Refueling (AAR).

Purpose. The purpose of this stage is to introduce the CMT to aft observer duties during air-to-air refueling missions.

AAR Overview. The following events are included in the AAR stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
AAR-1600	2.0	*	B	D	A	1	Observer Day FWAAR/TAAR
AAR-1601	2.0	*	B	D	A	1	Observer Day HAAR

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

AAR-1600 2.0 * B D A 1 KC-130J

Goal. Introduce aft observer duties during a day FWAAR or TAAR mission.

Requirements

- Introduce
  - Air refueling system
    - Components and terminology
    - Inspection and preflight
    - Drogue change
    - Operational checks
  - ICS, radio transmissions, and crew coordination
  - Receiver positions and lookout doctrine
  - EMCON procedures
  - Malfunctions
    - Hose fails to extend or retract
    - Improper coupling action
    - Fuel spray
    - Inadvertent disconnect
    - Hose extends beyond full trail
  - Emergency procedures (BREAKAWAY)
    - Excessive closure
    - Dead hose
    - Broken hose
    - Fast trailing hose
  - In-flight Issue Log (DD-791)

Performance Standard. NFM, Air NTTP, and ATP.

Instructor. MI.

Prerequisite. FAM-1103.

AAR-1601 2.0 * B D A 1 KC-130J

Goal. Introduce aft observer duties during a day HAAR mission.

Requirements

- Introduce
  - Air refueling system
    - Components and terminology
    - Inspection and preflight
    - Drogue change
    - Operational checks
  - ICS, radio transmissions, and crew coordination
  - Receiver positions and lookout doctrine
  - EMCON procedures
  - Malfunctions

Hose fails to extend or retract
Improper coupling action
Fuel spray
Inadvertent disconnect
Hose extends beyond full trail
Emergency procedures (BREAKAWAY)
Excessive closure
Dead hose
Broken hose
Fast trailing hose
In-flight Issue Log (DD-791)

Performance Standard. NFM, Air NTTP, and ATP.

Instructor. MI.

Prerequisite. FAM-1103.

3.8 CORE PHASE

Purpose. The purpose of this phase is to attain and maintain proficiency in Core Skills. These Core Skills provide the basic functions and enablers of our assigned mission essential task list.

Phase Overview. The following stages are included in the Core Phase of training.

Stage	Paragraph	Page Number
NS	3.9.1	3-18
LRN	3.9.2	3-19
TN	3.9.3	3-19
TR	3.9.4	3-20

3.9 CORE STAGES

3.9.1 Night Systems (NS)

Purpose. The purpose of this stage is to attain and maintain proficiency in the use of NVDs in the night environment.

General. At the completion of this stage the Crewmaster has attained proficiency in the use of NVDs and is NSQ.

NS Overview. The following events are included in the NS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
NS-2150	2.0	365	B,R,M	NS	A	1	Night Systems Qualification

Admin Notes

(1) NSQ letter shall be placed in the APR.

(2) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

NS-2150 2.0 365 B,R,M NS A 1 KC-130J

Goal. Attain and maintain proficiency utilizing NVDs.

Requirements

Evaluate
NVD checkout, inspection, alignment, and adjustment
NVD features
NVD failures
Astronomical data
Donning and doffing procedures
Exterior lighting in Normal, NVIS, and covert in the night environment
Interior lighting in Normal, NVIS, and covert in the night environment

Terrain, Water, Cultural lighting, and visual illusions in night environment
Effects of weather on NVDs
Scanning, field of view, and field of regard
Effects on individuals using NVDs (C3I2)

Performance Standard. Air NTTP and MAWTS-1 NVD Manual.

Instructor. NSI.

Prerequisite. NS(H)-1151, and minimum NVD hours as stated in the MAWTS-1 KC-130J Course Catalog.

3.9.2 Long Range Navigation (LRN)

Purpose. The purpose of this stage is to attain proficiency in long range flight planning and outside continental U.S. (OCONUS) operations.

LRN Overview. The following events are included in the LRN stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
LRN-2162	6.0	*	B,S	(N)	A	1	Long Range Navigation

Admin Notes

(1) Mission profile should include OCONUS requiring customs and/or agriculture in a foreign country.

(2) It is preferred that manifested cargo and/or passengers be onboard.

(3) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

LRN-2162 6.0 * B,S (N) A 1 KC-130J

Goal. Attain proficiency in long range flight planning and outside continental U.S. (OCONUS) operations.

Requirements

Review
Overwater equipment requirements
Foreign clearance guide requirements
Ditching procedures
Overwater bailout procedures

Performance Standard. NFM and Foreign Clearance Guide.

Instructor. MI.

Prerequisite. FAM-1103.

3.9.3 Tactical Navigation (TN)

Purpose. The purpose of this stage is to attain and maintain proficiency in aft observer duties in a tactical navigation environment.

TN Overview. The following events are included in the TN stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
TN-2201	2.0	365	B	D	A	1	Day Tactical Navigation
TN-2250	2.0	365	B,R,M	NS	A	1	Night Systems Tactical Navigation

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

TN-2201 2.0 365 B D A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties in a day tactical navigation environment.

Requirements

Review

Lookout doctrine
Scanning for threats
Scanning for terrain clearance
FENCE checklist
Maneuvering and low altitude environment terminology

Performance Standard. Air NTTP.

Instructor. MI.

Prerequisite. TN-1200.

TN-2250 2.0 365 B,R,M NS A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties in a night tactical navigation environment.

Requirements

Review

Lookout doctrine
Scanning for threats
Scanning for terrain clearance
FENCE checklist
Maneuvering and low altitude environment terminology
NVD use and night environment specifics

Performance Standard. Air NTTP and MAWTS-1 NVD Manual.

Instructor. MI or NSI if Crewmaster under instruction is not NSQ.

Prerequisite. NS(H)-1151 and TN-2201.

3.9.4 Threat Reaction (TR)

Purpose. The purpose of this stage is to attain and maintain proficiency in aft observer duties in a surface to air threat environment.

TR Overview. The following events are included in the TR stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
TR-2400	2.0	365	B,R,M	(N)	A	1	Threat Reaction

Admin Notes

(1) Initial event shall utilize surface to air threat range with simulated (smoky) surface to air missiles and emitters.

(2) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

TR-2400 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties in a surface to air threat environment.

Requirements

Review

Ordnance installation preflight considerations
Defensive systems components and controls
Threat recognition and terminology
Lookout doctrine
Scanning for threats
Scanning for terrain clearance
FENCE checklist
Maneuvering and low altitude environment terminology

Performance Standard. Air NTTP.

Instructor. MI.

Prerequisite. FAM-1103.

Ordnance. Flares (or simulated flare system) and operable CMDS.

3.10 MISSION PHASE

Purpose. The purpose of this phase is to attain and maintain proficiency in Mission Skills. These Mission Skills along with the Core Skills provide the skill to complete any mission listed in our assigned mission essential task list and integrate with the Marine Air Ground Task Force.

Phase Overview. The following stages are included in the Mission Phase of training.

Stage	Paragraph	Page Number
ALZ	3.11.1	3-21
CAT	3.11.2	3-21
AAR	3.11.3	3-24
ADGR	3.11.4	3-25
AD	3,11,5	3-26

3.11 MISSION STAGES

3.11.1 Assault Landing Zone (ALZ)

Purpose. The purpose of this stage is to attain and maintain proficiency in combat offload operations.

ALZ Overview. The following events are included in the ALZ stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
ALZ-3502	1.0	365	B,R,M	(N)	A	1	Combat Offload

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

ALZ-3502 1.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in combat offload operations.

Requirements

Review

Combat offload preparations, procedures, and checklists
Safety considerations
Weight and balance
CNI-MU update

Performance Standard. NFM and Air NTTP.

Instructor. CPLI.

Prerequisite. CAT-3512.

3.11.2 Combat Assault Transport (CAT)

Purpose. The purpose of this stage is to attain and maintain proficiency in cargo passenger loading and offloading.

CAT Overview. The following events are included in the CAT stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
CAT-3510	3.0	365	B,R,M	(N)	A	1	Passengers and Baggage
CAT-3511	3.0	365	B,R,M	(N)	A	1	Rolling Stock Cargo
CAT-3512	3.0	365	B,R,M	(N)	A	1	Palletized Cargo
CAT-3513	3.0	365	B,R,M	(N)	A	1	Hazardous Cargo

Admin Notes

(1) Weight and Balance shall be completed without the aid of the CNI-MU W&B page on initial events.

(2) All Crewmasters shall not attempt this stage until completion of BLM and LIQ, or the alternate prerequisites for BLM and LIQ authorized by the KC-130J FRD in accordance with the KC-130J FRD Course Catalog.

(3) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

CAT-3510 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in loading and unloading of passengers and baggage.

Requirements

Review

Cargo compartment preflight
Cargo compartment and floor limitations
Passenger configurations
Litter configurations
Passenger emergency exits
Passenger emergency equipment
Passenger overwater limitations
Passenger manifest documentation
Load planning
Seat installation
Litter installation
Passenger loading and offloading considerations
Engine running on-load/offload procedures and safety
Ground evacuation procedures
Ditching procedures
Weight and balance
CNI-MU input
Post flight

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. CPLI.

Prerequisite. FAM-1103.

CAT-3511 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in loading and unloading rolling stock cargo.

Requirements

Review

Cargo compartment preflight
Cargo winch preflight
Cargo compartment and floor limitations
Cargo loading aids
Cargo compartment configuration and load planning
Cargo inspection
Load plan and cargo manifest documentation
Winching procedures
Vehicle loading and offloading procedures
Vehicle or rolling stock overhang and projection limitations
Cargo restraint
Loading and offloading safety considerations
After takeoff, inflight, and before landing cargo secured checks
Engine running on-load/offload procedures and safety
Ground evacuation procedures
Ditching procedures

Cargo jettison procedures
Weight and balance
CNI-MU input
Post flight

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. CPLI.

Prerequisite. FAM-1103.

CAT-3512 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in loading and unloading palletized cargo.

Requirements

Review

Cargo compartment preflight
Dual rail preflight and limitations
Pallet position limitations
Cargo compartment configuration and load planning
Cargo inspection
Load plan and cargo manifest documentation
Palletized loading and offloading procedures
Loading and offloading safety considerations
After takeoff, inflight, and before landing cargo secured checks
Engine running on-load/offload procedures and safety
Ground evacuation procedures
Ditching procedures
Cargo jettison procedures
Weight and balance
CNI-MU input
Post flight

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. CPLI.

Prerequisite. FAM-1103.

CAT-3513 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in loading and unloading hazardous cargo.

Requirements

Review

Compatibility considerations
Segregation and positioning considerations
Passenger waivers
Aircraft Commander hazardous material briefing
Cargo compartment configuration and load planning
Cargo inspection and hazardous material properly packaged
Load plan and cargo manifest documentation
Hazardous materials Shipper's Declaration forms
Loading and offloading safety considerations
Cargo jettison procedures for hazardous materials
Weight and balance
CNI-MU input
Post flight

Performance Standard. NFM, NAVAIR 01-75GAA-9, and MCO P4030.19.

Instructor. CPLI.

Prerequisite. FAM-1103.

3.11.3 Air-to-Air Refueling Observer (AAR)

Purpose. The purpose of this stage is to attain and maintain proficiency in aft observer duties during air-to-air refueling missions.

AAR Overview. The following events are included in the AAR stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
AAR-3600	2.0	365	B,R,M	D	A	1	Day FWAAR or TAAR
AAR-3601	2.0	365	B,R,M	D	A	1	Day HAAR
AAR-3650	2.0	365	B,R,M	NS	A	1	Night Systems AAR

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalog for any pre-event requirements.

AAR-3600 2.0 365 B,R,M D A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties during a day FWAAR or TAAR mission.

Requirements

- Review
  - Air refueling system
    - Components and terminology
    - Inspection and preflight
    - Operational checks
  - ICS, radio transmissions, and crew coordination
  - Receiver positions and lookout doctrine
  - EMCON procedures
  - Malfunctions
    - Hose fails to extend or retract
    - Improper coupling action
    - Fuel spray
    - Inadvertent disconnect
    - Hose extends beyond full trail
  - Emergency procedures (BREAKAWAY)
    - Excessive closure
    - Dead hose
    - Broken hose
    - Fast trailing hose
  - In-flight Issue Log (DD-791)

Performance Standard. NFM, Air NTTP, and ATP.

Instructor. MI.

Prerequisite. AAR-1600.

AAR-3601 2.0 365 B,R,M D A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties during a day HAAR mission.

Requirements

- Review
  - Air refueling system
    - Components and terminology
    - Inspection and preflight
    - Operational checks
  - ICS, radio transmissions, and crew coordination

Receiver positions and lookout doctrine
EMCON procedures
Malfunctions
Hose fails to extend or retract
Improper coupling action
Fuel spray
Inadvertent disconnect
Hose extends beyond full trail
Emergency procedures (BREAKAWAY)
Excessive closure
Dead hose
Broken hose
Fast trailing hose
In-flight Issue Log (DD-791)

Performance Standard. NFM, Air NTTP, and ATP.

Instructor. MI.

Prerequisite. AAR-1601.

AAR-3650 2.0 365 B,R,M NS A 1 KC-130J

Goal. Attain and maintain proficiency in aft observer duties during a night FWAAR, TAAR, or HAAR mission utilizing NVDs.

Requirements

Review
Air refueling system
Components and terminology
Inspection and preflight
Operational checks
ICS, radio transmissions, and crew coordination
Receiver positions and lookout doctrine
EMCON procedures
Malfunctions
Hose fails to extend or retract
Improper coupling action
Fuel spray
Inadvertent disconnect
Hose extends beyond full trail
Emergency procedures (BREAKAWAY)
Excessive closure
Dead hose
Broken hose
Fast trailing hose
In-flight Issue Log (DD-791)
NVD use and night environment specifics

Performance Standard. NFM, Air NTTP, ATP, and MAWTS-1 NVD Manual.

Instructor. MI or NSI if Crewmaster under instruction is not NSQ.

Prerequisite. AAR-3600 or AAR-3601.

3.11.4 Aviation Delivered Ground Refueling (ADGR)

Purpose. The purpose of this stage is to attain and maintain proficiency in ADGR RPO duties.

ADGR Overview. The following events are included in the ADGR stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
ADGR-3660	2.0	365	B,R,M	(N)	A	1	ADGR RPO

Admin Notes

(1) Actual transfer of fuel required to receiver aircraft or TGVs.

(2) ADGR RPO will assist in the planning, preflight, setup, execution, and breakdown of the ADGR site as supervised by the ADGR refueling supervisor.

(3) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

ADGR-3660 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in ADGR RPO duties.

Requirements

Review
- Planning
- Equipment preflight
- Personal equipment
- Site setup
- Execution
  - Fuel delivery
  - Fuel spill and hose overpressure
  - Fire and rescue
  - Emergency breakdown and evacuation
- Site breakdown
- Safety considerations and emergency equipment
- Post flight of ADGR equipment
- In-flight Issue Log (DD-791)

Performance Standard. NFM and Air NTTP.

Instructor. MI qualified as an ADGR RS.

Prerequisite. FAM-1103.

3.11.5 Air Delivery (AD)

Purpose. The purpose of this stage is to attain and maintain proficiency in CDS and static line personnel air delivery.

AD Overview. The following events are included in the AD stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
AD-3703	4.0	365	B,R,M	(N)	A	1	CDS
AD-3705	4.0	365	B,R,M	(N)	A	1	Static Line

Admin Notes.

(1) AD-3703 is not mirrored from the KC-130T T&R therefore shall be conducted.

(2) AD-3703 shall use CDS pulley and guillotine knife for initial event.

(3) All Crewmasters shall not attempt this stage until completion of LMQ or the alternate prerequisites for LMQ authorized by the KC-130J FRD in accordance with the KC-130J FRD Course Catalog.

(4) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

AD-3703 4.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in CDS air delivery.

Requirements

- Review
  - CDS types and configurations
    - Single stick
    - Double stick
    - RAMZ/Container ramp load
    - CRRC
  - CDS limitations
  - CDS pulley locations
  - BSA/CVR requirements and operation
  - General aircraft preparation for ramp and door
  - Aircraft preparation for CDS
  - Weight and balance and CNI-MU input
  - Crew brief/checklist rehearsal
  - Emergency procedures and review
    - CDS/CRRC checklist
  - FENCE checklist
  - Execution and conduct of air delivery checklist
    - Primary/secondary execution checklist duties
    - Primary/secondary emergency procedures duties
    - Verbal/visual signals
    - ICS chord routing
    - Restraint harness requirements
    - Primary/secondary positioning during air delivery
    - Static line retrieval
    - Inflight rigging procedures

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. ADI.

Prerequisite. FAM-1103.

AD-3705 4.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in static line personnel air delivery.

Requirements

- Review
  - Ramp and paratroop door considerations
  - Ramp and paratroop door limitations
  - Door bundles
  - Overwater safety considerations
  - General aircraft preparation for ramp and door
  - Aircraft preparation for paratroop airdrop
  - Joint inspection for airborne operations checklist
  - Weight and balance and CNI-MU input
  - Jumpmaster brief
  - Crew brief/checklist rehearsal
  - Emergency procedures and review
    - Static line personnel ramp checklist
    - Static line paratroop door checklist
    - Towed parachutist retrieval system usage
  - Passenger brief
  - FENCE checklist

Execution and conduct of air delivery checklist
Primary/secondary execution checklist duties
Primary/secondary emergency procedures duties
Verbal/visual signals
ICS chord routing
Restraint harness requirements
Primary/secondary positioning during air delivery
Static line retrieval
Inflight rigging procedures

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. ADI.

Prerequisite. CAT-3510.

3.12 CORE PLUS PHASE

Purpose. The purpose of this phase is to attain and maintain proficiency in Core Plus Skills. These Core Plus Skills provide advanced Core Skills to enable advanced mission capabilities.

Phase Overview. The following stages are included in the Core Plus Phase of training.

Stage	Paragraph	Page Number
DT	3.13.1	3-28

3.13 CORE PLUS STAGES

3.13.1 Defensive Tactics (DT)

Purpose. The purpose of this stage is to attain proficiency in air-to-air defensive tactics.

DT Overview. The following events are included in the DT stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
DT-4410	1.0	*	B	D	A	1	1 vs. 1
DT-4411	1.0	*	B	D	A	1	1 vs. 2

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

DT-4410 1.0 * B D A 1 KC-130J

Goal. Attain proficiency in air-to-air defensive tactics versus one adversary.

Requirements

Review
CMDS
RVD installation
Defensive maneuvers
Hard turns
Break turns
Maneuvering velocity
One-circle/two-circle
Negative tracking solutions
Lookout doctrine
Scan sectors
Threat call template
FENCE checks
CRM

Performance Standard. Air NTTP.

Instructor. Crewmaster WTI or Pilot DTI.

Prerequisite. FAM-1103.

DT-4411 1.0 * B D A 1 KC-130J

Goal. Attain proficiency in air-to-air defensive tactics versus two adversaries.

Requirements

Review
- CMDS
- RVD installation
- Defensive maneuvers
  - Hard turns
  - Break turns
  - Maneuvering velocity
  - One-circle/two-circle
  - Negative tracking solutions
- Lookout doctrine
- Scan sectors
- Threat call template
- FENCE checks
- CRM

Performance Standard. Air NTTP.

Instructor. Crewmaster WTI or Pilot DTI .

Prerequisite. DT-4410.

3.14 MISSION PLUS PHASE

Purpose. The purpose of this phase is to attain and maintain proficiency in Mission Plus Skills. These Mission Plus Skills provide advanced mission skills to enable advanced mission capabilities.

Phase Overview. The following stages are included in the Mission Plus Phase of training.

Stage	Paragraph	Page Number
AD	3.15.1	3-29
BI	3.15.2	3-31
HH	3.15.3	3-33
CAS	3.15.4	3-34

3.15 MISSION PLUS STAGES

3.15.1 Air Delivery (AD)

Purpose. The purpose of this stage is to attain and maintain proficiency in combination, high altitude, and heavy equipment air delivery.

AD Overview. The following events are included in the AD stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
AD-4700	4.0	*	B	(N)	A	1	Combination Air Delivery
AD-4701	2.0	365	B,R,M	(N)	A	1	High Altitude Air Delivery
AD-4703	4.0	365	B,R,M	(N)	A	1	Heavy Equipment Air Delivery

Admin Notes.

(1) All Crewmasters shall not attempt this stage until completion of LMQ or the alternate prerequisites for LMQ authorized by the KC-130J FRD in accordance with the KC-130J FRD Course Catalog.

(2) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

AD-4700 4.0 * B (N) A 1 KC-130J

Goal. Attain proficiency in personnel and cargo combination air delivery.

Requirements

Review

- General aircraft preparation for ramp and door
- Aircraft preparation for CDS/HE
- Aircraft preparation for paratroop airdrop
- Joint inspection for airborne operations checklist
- Weight and balance and CNI-MU input
- Jumpmaster brief
- Crew brief/checklist rehearsal
- Emergency procedures and review
  - Static line personnel ramp checklist
  - CDS/CRRC and HE checklist
- Passenger brief
- FENCE checklist
- Execution and conduct of air delivery checklist
  - Primary/secondary execution checklist duties
  - Primary/secondary emergency procedures duties
  - Verbal/visual signals
  - ICS chord routing
  - Restraint harness requirements
  - Primary/secondary positioning during air delivery
  - Static line retrieval
  - Inflight rigging procedures

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. ADI.

Prerequisite. [AD-3705 or AD-4701] and [AD-3703 or AD-4703].

AD-4701 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in high altitude air delivery.

Requirements

Review

- Pre-breathing requirements
- Physiology observer requirements
- Decompression illness
- High altitude temperatures (clothing)
- General aircraft preparation for ramp and door
- Aircraft preparation for paratroop airdrop
- Joint inspection for airborne operations checklist
- Weight and balance and CNI-MU input
- Jumpmaster brief
- Crew brief/checklist rehearsal
- Emergency procedures and review
  - Static line personnel ramp checklist
  - Static line paratroop door checklist
- Passenger brief
- FENCE checklist
- Execution and conduct of air delivery checklist
  - Primary/secondary execution checklist duties
  - Primary/secondary emergency procedures duties
  - Verbal/visual signals

ICS chord routing
Oxygen hose routing
Restraint harness requirements
Primary/secondary positioning during air delivery
Static line retrieval
Inflight rigging procedures

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. ADI.

Prerequisite. CAT-3510.

AD-4703 4.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in heavy equipment air delivery.

Requirements

Review
HE types and configurations
HE limitations
HE extraction chute requirements
General aircraft preparation for ramp and door
Aircraft preparation for HE
Weight and balance and CNI-MU input
Crew brief/checklist rehearsal
Emergency procedures and review
Loose platform
Load fails to release mechanically, falls on the ramp, or fails to extract with single extraction parachute outside of aircraft
Multiple 28-foot extraction parachute fails to release mechanically or falls on ramp
Load fails to extract with multiple 28-foot extraction parachutes outside of aircraft
FENCE checklist
Execution and conduct of air delivery checklist
Primary/secondary execution checklist duties
Primary/secondary emergency procedures duties
Verbal/visual signals
ICS chord routing
Restraint harness requirements
Primary/secondary positioning during air delivery
Inflight rigging procedures

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. ADI.

Prerequisite. CAT-3512.

3.15.2 Battlefield Illumination (BI)

Purpose. The purpose of this stage is to attain and maintain proficiency in battlefield illumination operations.

BI Overview. The following events are included in the BI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
BI-4710	3.0	*	B	(N)	A	1	Team Member
BI-4711	3.0	365	B,R,M	(N)	A	1	Team Leader

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

BI-4710 3.0 * B (N) A 1 KC-130J

Goal. Attain proficiency in battlefield illumination as a team member.

Requirements

Review
- Crew requirements
- High altitude requirements
- BI equipment requirements and preflight
- Extra survival equipment requirements
- General aircraft preparation for ramp and door
- APF acceptance inspection and storage loading (type flare differences)
- Weight and balance and CNI-MU input
- FENCE checklist
- Execution and conduct of battlefield illumination checklist
  - Team member duties
  - Flare dispenser installation
  - APF timer settings
  - Flare dispenser loading
  - Flare delivery (flare dispenser shall be used; hand launch may be discussed or performed)
- Emergencies
  - Hot flare
  - APF timer separation
  - Fire/Smoke/Fumes elimination

Performance Standard. NFM, Air NTTP, NTRP, and NAVAIR 01-75GAA-9.

Instructor. ADI and QASO qualified.

Prerequisite. FAM-1103 and CAT-3512.

Ordnance. LUU-2 and/or LUU-19 series APFs.

BI-4711 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in battlefield illumination as a team leader.

Requirements

Review
- Crew requirements
- High altitude requirements
- BI equipment requirements and preflight
- Extra survival equipment requirements
- General aircraft preparation for ramp and door
- APF acceptance inspection and storage loading (type flare differences)
- Weight and balance and CNI-MU input
- FENCE checklist
- Execution and conduct of battlefield illumination checklist
  - Team leader duties
  - Flare dispenser installation
  - APF timer settings
  - Flare dispenser loading
  - Flare delivery (flare dispenser shall be used; hand launch may be discussed or performed)
- Emergencies
  - Hot flare
  - APF timer separation
  - Fire/Smoke/Fumes elimination

Performance Standard. NFM, Air NTTP, NTRP, and NAVAIR 01-75GAA-9.

Instructor. ADI qualified a BI QASO.

Prerequisite. BI-4710.

Ordnance. LUU-2 and/or LUU-19 series APFs.

3.15.3 Harvest Hawk (HH)

Purpose. The purpose of this stage is conduct ground familiarization with the Harvest HAWK aircraft and its operation.

HH Overview. The following events are included in the HH stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
HH-4803	3.0	*	B,S	(N)	G	1	Harvest HAWK Familiarization

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

HH-4803 3.0 * B,S (N) G 1 KC-130J HH

Goal. Discuss and introduce Harvest HAWK aircraft operations.

Requirements

- Discuss
  - CAS introduction
  - HH CRM
  - Safety
  - Ordnance area
  - BMS and KARNAC operations
  - Flight station differences
  - APU operation differences
  - Ground refueling differences
  - All weather procedures
- Introduce
  - Exterior preflight differences
    - Sensor Pod/TSS
    - Hellfire launcher
    - Derringer door
  - Interior preflight differences
    - Additional MCBs for Hellfire on FS 245
    - FCO station with BMS
    - KARNAC location and operation
    - Derringer door
    - Minimal operation of dual rails
  - Normal procedures
    - Inflight duties
    - Griffin/SOPGM munitions loading checklist
    - KARNAC power on
    - Hellfire arming and de-arming procedures
  - Emergency procedures for hellfire missile
    - Missile unlatched
    - Miss fire
    - Hang fire
    - Temp out of range
    - Emergency jettison
    - Electrical fire
    - Electrical malfunction
    - Abandon aircraft

Emergency procedures for Griffin/SOPGM
Miss fire
Hung safe
Hung unsafe

Performance Standard. NFM, Air NTTP, NAVAIR 01-75GAJ-1.3, NAVAIR 01-75GAJ-1.3-S1, NAVAIR 01-75GAJ-1.3-S2, and NAVAIR 01-75GAJ-1D.

Instructor. MI and CAS-4830 complete.

Prerequisite. FAM-1103.

Ordnance. Griffin/SOPGM CATM with operable derringer door.

3.15.4 Close Air Support (CAS) Stage

Purpose. The purpose of this stage is to attain and maintain proficiency in Harvest HAWK aircraft operations.

CAS Overview. The following events are included in the CAS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
CAS-4830	2.5	730	B,S,R,M	(N)	A	1	Close Air Support

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

CAS-4830 2.5 730 B,S,R,M (N) A 1 KC-130J HH

Goal. Attain and maintain proficiency in Harvest HAWK aircraft operations.

Requirements

Review
Safety
Ordnance area
BMS and KARNAC operations
All weather procedures
APU operation differences
Ground refueling differences
Exterior preflight differences
Sensor Pod/TSS
Hellfire launcher (pin and lever direction)
Derringer door
Interior preflight differences
Additional MCBs for Hellfire on FS 245
FCO station with BMS
KARNAC location and operation
Derringer door
Minimal operation of dual rails
Normal procedures
Inflight duties
Griffin/SOPGM munitions loading checklist
KARNAC power on
Hellfire arming and de-arming procedures
Emergency procedures for hellfire missile
Missile unlatched
Miss fire
Hang fire
Temp out of range
Emergency jettison
Electrical fire

Electrical malfunction
Abandon aircraft
Emergency procedures for Griffin/SOPGM
Miss fire
Hung safe
Hung unsafe

Performance Standard. NFM, Air NTTP, NAVAIR 01-75GAJ-1.3, NAVAIR 01-75GAJ-1.3-S1, NAVAIR 01-75GAJ-1.3-S2, and NAVAIR 01-75GAJ-1D.

Instructor. MI and CAS-4830 complete.

Prerequisite. HH-4803.

Ordnance. Griffin, AGM-114 Hellfire, or equivalent CATM and operable Derringer Door.

3.16 INSTRUCTOR PHASE

Purpose. Introduce instructor roles and standardization; designate as a Mission Instructor, Systems Instructor, Cargo Passenger Loading Instructor, Air Delivery Instructor, NATOPS Instructor, Night Systems Instructor, and Weapons Tactics Instructor.

Phase Overview. The following stages are included in the Mission Plus Phase of training.

Stage	Paragraph	Page Number
IUT	3.17.1	3-35
MI	3.17.2	3-37
SI	3.17.3	3-38
NI	3.17.4	3-38
NSI	3.17.5	3-41
CPLI	3.17.6	3-42
ADI	3.17.7	3-42
WTI	3.17.8	3-43

3.17 INSTRUCTOR STAGES

3.17.1 Instructor Under Training (IUT)

Purpose. The purpose of this stage is to discuss, introduce, and review basic instructor roles.

IUT Overview. The following events are included in the IUT stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
IUT-5000	3.0	*	B	(N)	G		Inst. Roles & Standardization Classroom
IUT-5100	3.0	*	B	(N)	A	1	Inst. Roles & Standardization Intro
IUT-5101	3.0	*	B	(N)	A	1	Inst. Roles & Standardization Review

Admin Notes.

(1) APRB recommendation is required prior to commencing this stage.

(2) See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

IUT-5000 3.0 * B (N) G

Goal. Discuss, introduce, and review instructor roles and standardization in the classroom.

Requirements. Upon completion of discussion and introduction of pre-event required academics the IUT will be scheduled to instruct a KC-130J specific class. This class will be reviewed on the following:

Review
Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits

Movements, gestures, and eye contact
Ability to maintain trainee attention
Ability to answer trainee questions
Subject matter knowledge
Subject development
Lesson objectives identified and taught
Use of training aids

Performance Standard. Effective instructor qualities.

Instructor. Any NI or ANI.

IUT-5100 3.0 * B (N) A 1 KC-130J

Goal. Introduce instructor roles and standardization on aircraft.

Requirements

Introduce
Instructor preparation
Briefing trainee
Instructing trainee
Debriefing trainee
Completion of ATF
Instructor qualities
Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits
Movements, gestures, and eye contact
Ability to establish instructor and trainee rapport
Encouraging trainee participation
Ability to answer trainee questions
Subject matter knowledge (publications and experience)
NATOPS adherence
Avoids non-standard terminology
Uses examples and analogies to enforce learning
Situational awareness

Performance Standard. Applicable publications for the event being instructed and effective instructor qualities.

Instructor. Any NI or ANI.

Prerequisite. IUT-5000.

IUT-5101 3.0 * B (N) A 1 KC-130J

Goal. Review instructor roles and standardization on the aircraft.

Requirements

Review
Instructor preparation
Briefing trainee
Instructing trainee
Debriefing trainee
Completion of ATF
Instructor qualities
Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits

Movements, gestures, and eye contact
Ability to establish instructor and trainee rapport
Encouraging trainee participation
Ability to answer trainee questions
Subject matter knowledge (publications and experience)
NATOPS adherence
Avoids non-standard terminology
Uses examples and analogies to enforce learning
Situational awareness

Performance Standard. Applicable publications for the event being instructed and effective instructor qualities.

Instructor. Any NI or ANI.

Prerequisite. IUT-5100.

3.17.2 Mission Instructor (MI)

Purpose. The purpose of this stage is to designate Mission Instructors.

MI Overview. The following events are included in the MI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
MI-5102	3.0	*	B,R	(N)	A	1	Mission Instructor

Admin Notes.

(1) APRB recommendation is required prior to commencing this stage.

(2) Designation letter shall be placed in the APR.

(3) See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

MI-5102 3.0 * B,R (N) A 1 KC-130J

Goal. Designate as a Mission Instructor.

Requirements

Review
LRN-2162, TN-2201, TN-2250, TR-2400, AAR-3600, AAR-3601, and AAR-3650 requirements
Evaluate
Instructor preparation
Briefing trainee
Instructing trainee
Debriefing trainee
Completion of ATF
Instructor qualities
Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits
Movements, gestures, and eye contact
Ability to establish instructor and trainee rapport
Encouraging trainee participation
Ability to answer trainee questions
Subject matter knowledge (publications and experience)
NATOPS adherence
Avoids non-standard terminology
Uses examples and analogies to enforce learning
Situational awareness

Performance Standard. NFM, Air NTTP, and effective instructor qualities.

Instructor. Any NI or ANI.

Prerequisite. LRN-2162, TN-2250, TR-2400, AAR-3600, AAR-3601, AAR-3650, and IUT-5101.

3.17.3 Systems Instructor (SI)

Purpose. The purpose of this stage is to designate System Instructors.

SI Overview. The following events are included in the SI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
SI-5103	3.0	*	B,R	(N)	A	1	Systems Instructor

Admin Notes.

(1) APRB recommendation is required prior to commencing this stage.

(2) Designation letter shall be placed in the APR.

(3) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

SI-5103 3.0 * B,R (N) A 1 KC-130J

Goal. Designate as a Systems Instructor.

Requirements

Review

FAM-1000 to 1103, FCF-6105 to 6107, FAM-6900 to 6903, SYS-6910 to 6919, ACS-6920 to 6928, and PC-6930 to 6934 requirements

Evaluate

Instructor preparation
Briefing trainee
Instructing trainee
Debriefing trainee
Completion of ATF
Instructor qualities

Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits
Movements, gestures, and eye contact
Ability to establish instructor and trainee rapport
Encouraging trainee participation
Ability to answer trainee questions
Subject matter knowledge (publications and experience)
NATOPS adherence
Avoids non-standard terminology
Uses examples and analogies to enforce learning
Situational awareness

Performance Standard. NFM applicable maintenance publications and effective instructor qualities.

Instructor. CMCC NI or ANI, or CM NI or ANI

Prerequisite. ACS-6920, ACS-6921, ACS-6922, ACS-6923, ACS-6924, ACS-6928, PC-6930, PC-6932, PC-6933, PC-6934, IUT-5101, and NTPS-6118.

3.17.4 NATOPS Instructor (NI)

Purpose. The purpose of this stage is introduce and designate NATOPS Instructors providing standardized annual NATOPS evaluations.

NI Overview. The following events are included in the NI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
NTPS-5140	2.0	*	B	(N)	A	1	NI/ANI Introduction
NTPS-5141	2.0	365	B,R,M	(N)	A	1	Crewmaster NI/ANI
NTPS-5142	2.0	365	B,R,M	(N)	A	1	Crewmaster Crew Chief NI/ANI
NTPS-5143	2.0	365	B,R,M	(N)	A	1	Crewmaster Loadmaster NI/ANI

Admin Notes.

(1) APRB recommendation is required prior to commencing this stage.

(2) Designation letters shall be placed in the APR

(3) NI and ANI evaluations are conducted annually in accordance with OPNAVINST 3710.7 and MCO 3710.8.

(4) CRMI or CRMF is a requirement for NI or ANI.

(5) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

NI-5140 2.0 * B (N) A 1 KC-130J

Goal. Introduce NI and ANI responsibilities and requirements.

Requirements

- Introduce
  - Chapter 17 NATOPS evaluation
    - Definitions
    - Ground evaluation requirements
      - Open book exam
      - Close book exam
      - Oral exam
    - Flight evaluation requirements
      - NATOPS evaluation worksheet
      - Flight Evaluation grade determination
      - Final grade determination
  - Evaluee brief
  - Evaluee debrief
  - Standardization of normal procedures
  - Standardization of simulated or actual Emergency Procedures
  - Bold face or asterisk items
  - NATOPS knowledge and terminology

Performance Standard. NFM.

Instructor. Any NI or ANI

Prerequisite. MI-5102 and either NTPS-6112, NTPS-6113, or NTPS-6118.

NI-5141 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Designate as a Crewmaster NI or ANI.

Requirements

- Evaluate
  - Chapter 17 NATOPS evaluation
    - Definitions
    - Ground evaluation requirements
      - Open book exam
      - Close book exam
      - Oral exam
  - Flight evaluation requirements

NATOPS evaluation worksheet
Flight evaluation grade determination
Final grade determination
Evaluee brief
Evaluee debrief
Standardization of normal procedures
Standardization of simulated or actual emergency procedures
Bold face or asterisk items
NATOPS knowledge and terminology

Performance Standard. NFM.

Instructor. CM NI, or CMCC NI and CMLM NI.

Prerequisite. SI-5103, NI-5140, CPLI-5510, and NTPS-6118.

NI-5142 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Designate as a Crewmaster Crew Chief NI or ANI.

Requirements

Evaluate
Chapter 17 NATOPS evaluation
Definitions
Ground evaluation requirements
Open book exam
Close book exam
Oral exam
Flight evaluation requirements
NATOPS evaluation worksheet
Flight evaluation grade determination
Final grade determination
Evaluee brief
Evaluee debrief
Standardization of normal procedures
Standardization of simulated or actual emergency procedures
Bold face or asterisk items
NATOPS knowledge and terminology

Performance Standard. NFM.

Instructor. CMCC NI or CM NI.

Prerequisite. SI-5103, NI-5140, and NTPS-6112.

NI-5143 2.0 365 B,R,M (N) A 1 KC-130J

Goal. Designate as a Crewmaster Loadmaster NI or ANI.

Requirements

Evaluate
Chapter 17 NATOPS evaluation
Definitions
Ground evaluation requirements
Open book exam
Close book exam
Oral exam
Flight evaluation requirements
NATOPS evaluation worksheet
Flight Evaluation grade determination
Final grade determination

Evaluee brief
Evaluee debrief
Standardization of normal procedures
Standardization of simulated or actual emergency procedures
Bold face or asterisk items
NATOPS knowledge and terminology

Performance Standard. NFM.

Instructor. CMLM NI or CM NI

Prerequisite. NI-5140, CPLI-5510, and NTPS-6113.

3.17.5 Night Systems Instructor (NSI)

Purpose. The purpose of this stage is to certify and designate Night System Instructors.

NI Overview. The following events are included in the NSI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
NSI-5150	2.0	*	B	NS	A	1	NSI Workup
NSI-5151	2.0	*	B	NS	A	1	NSI Workup
NSI-5152	2.0	*	B,R	NS	A	1	NSI Certification

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) The NSI syllabus is developed by MAWTS-1 and conducted at the squadron. Upon completion, the candidate will be certified by MAWTS-1 as a NSI. NSI designation upon certification is at the discretion of the squadron commanding officer.

(3) Certificate and designation letters shall be placed in the APR

(4) See courseware as outlined in the MAWTS-1 KC-130J Course Catalogs for any pre-event requirements.

NSI-5150 2.0 * B NS A 1 KC-130J

Goal. NSI Workup.

Requirements. See courseware as outlined in the KC-130J Chapter of the MAWT-1 Course Catalog.

Performance Standard. Air NTTP, MAWTS-1 NVD Manual, and effective instructor qualities.

Instructor. Squadron Pilot NSI or Crewmaster NSI.

NSI-5151 2.0 * B NS A 1 KC-130J

Goal. NSI Workup.

Requirements. See courseware as outlined in the KC-130J Chapter of the MAWT-1 Course Catalog.

Performance Standard. Air NTTP, MAWTS-1 NVD Manual, and effective instructor qualities.

Instructor. Squadron Pilot NSI or Crewmaster NSI.

Prerequisite. NSI-5150.

NSI-5152 2.0 * B,R NS A 1 KC-130J

Goal. NSI Certification.

Requirements. See courseware as outlined in the KC-130J Chapter of the MAWT-1 Course Catalog.

Performance Standard. Air NTTP, MAWTS-1 NVD Manual, and effective instructor qualities.

Instructor. MAWTS-1 Crewmaster Instructor.

Prerequisite. NSI-5151.

3.17.6 Cargo Passenger Loading Instructor (CPLI)

Purpose. The purpose of this stage is to designate Cargo Passenger Loading Instructors.

CPLI Overview. The following events are included in the CPLI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
CPLI-5510	3.0	*	B,R	(N)	A	1	Cargo Passenger Loading Instructor

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) Designation letter shall be placed in the APR.

(3) See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

CPLI-5510 3.0 * B,R (N) A 1 KC-130J

Goal. Designate as a Cargo Passenger Loading Instructor.

Requirements

Review
- ALZ-3502, and CAT-3510 to 3513 requirements

Evaluate
- Instructor preparation
- Briefing trainee
- Instructing trainee
- Debriefing trainee
- Completion of ATF
- Instructor qualities
  - Appearance
  - Motivation and attitude
  - Voice, tone, and inflection
  - Grammar, vocabulary, and speech habits
  - Movements, gestures, and eye contact
  - Ability to establish instructor and trainee rapport
  - Encouraging trainee participation
  - Ability to answer trainee questions
  - Subject matter knowledge (publications and experience)
  - NATOPS adherence
  - Avoids non-standard terminology
  - Uses examples and analogies to enforce learning
  - Situational awareness

Performance Standard. NFM, NAVAIR 01-75GAA-9, and effective instructor qualities.

Instructor. CMLM NI or ANI, or CM NI or ANI.

Prerequisite. ALZ-3502, CAT-3510, CAT-3511, CAT-3512, CAT-3513, and IUT-5101.

3.17.7 Air Delivery Instructor (ADI)

Purpose. The purpose of this stage is to designate Air Delivery Instructors.

ADI Overview. The following events are included in the ADI stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
ADI-5701	3.0	*	B,R	(N)	A	1	Air Delivery Instructor

Admin Notes.

(1) APRB recommendation is required prior to commencing this stage.

(2) Designation letter shall be placed in the APR.

(3) See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

ADI-5701 3.0 * B,R (N) A 1 KC-130J

Goal. Designate as an Air Delivery Instructor.

Requirements

Review
AD-3703 to 3705, AD-4700 to 4703, and BI-4710 to 4711 requirements
Evaluate
Instructor preparation
Publications Review (-9 and MCRPs)
Briefing trainee
Instructing trainee
Debriefing trainee
Completion of ATF
Instructor qualities
Appearance
Motivation and attitude
Voice, tone, and inflection
Grammar, vocabulary, and speech habits
Movements, gestures, and eye contact
Ability to establish instructor and trainee rapport
Encouraging trainee participation
Ability to answer trainee questions
Subject matter knowledge (publications and experience)
NATOPS adherence
Avoids non-standard terminology
Uses examples and analogies to enforce learning
Situational awareness

Performance Standard. NFM, Air NTTP, NTRP, NAVAIR 01-75GAA-9, and effective instructor qualities.

Instructor. WTI.

Prerequisite. AD-3703, AD-3705, AD-4700, AD-4701, AD-4703, BI-4711, and IUT-5101.

3.17.8 Weapons Tactics Instructor (WTI)

Purpose. Certify the KC-130 Crewmaster as a WTI. The Crewmaster WTI will assist in planning missions, and conduct tactical ground and flight instruction for KC-130 crewmembers as outlined in MCO 3500.19 and the MAWTS-1 WTI Course Catalog.

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) The WTI syllabus is developed by MAWTS-1 and conducted at the WTI Course. Upon graduation, the candidate will be certified by MAWTS-1 as a WTI (NMOS 6177) and designated at the discretion of the squadron commanding officer.

(3) ATF is not required. Completion certificate and designation letter shall be placed in APR, and appropriate WTI MOS assigned.

(4) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

3.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS PHASE

Purpose. This phase consists of stages and events to support the requirements of NATOPS evaluations and other areas of this training and readiness chapter that do not result in a change of CSP, MSP, CPSP, or MPSP. This phase consists of specific requirements, qualifications, and designations required to support the operation of the aircraft and provide flight leadership requirements.

Phase Overview. The following stages are included in the Requirements, Certification, Qualifications, and Designations Phase of training.

Stage	Paragraph	Page Number
FCF	3.19.1	3-44
NTPS	3.19.2	3-45
RS	3.19.3	3-47
QASO	3.19.4	3-48
FAM	3.19.5	3-49
SYS	3.19.6	3-51
ACS	3.19.7	3-55
PC	3.19.8	3-60
ER	3.19.9	3-62

Admin Notes. See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

3.19 RCQD STAGES

3.19.1 Functional Check Flight (FCF)

Purpose. The purpose of this stage is to attain and maintain proficiency in FCFs.

FCF Overview. The following events are included in the FCF stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
FCF-6104	4.0	*	B,S	D	S/A	1	Partial FCF Intro
FCF-6105	2.0	365	B,S,R,M	D	A/S	1	Partial FCF
FCF-6106	4.0	*	B,S	D	S/A	1	Full FCF Intro
FCF-6107	4.0	365	B,S,R,M	D	A/S	1	Full FCF

Admin Notes.

(1) If WST is not available for FCF-6104 it may be accomplished in aircraft or waived if all partial FCF flight profiles of "B", "C", and "D" are accomplished on FCF-6105. If waived see paragraph 3.7.8.

(2) FCF-6105 initial event shall be flown in aircraft for partial FCF profile "B", "C", or "D". Subsequent proficiency updates may be flown in simulator.

(3) FCF-6107 initial event shall be flown in aircraft for full FCF profile "A". Subsequent proficiency updates may be flown in simulator for either full FCF profile "A" or partial FCF profile "D" as long as FCF-6105 is proficient. Partial FCF profile "D" may be used after initial due to the fact the differences are minor.

(4) FCF-6105 completion results in FCF(P) qualification. FCF(P) letter shall be placed in APR.

(5) FCF-6107 completion results in FCF(F) qualification. FCF(F) letter shall be placed in APR.

FCF-6104 4.0 * B,S D S/A 1 WST / 1 KC-130J

Goal. Introduce partial FCF flight profiles "B", "C", and "D".

Requirements

Introduce
- FCF profiles "B", "C", and "D" checklists
- Review systems
- FCF documentation
- QA brief
- QA debrief

Performance Standard. NFM, COMNAVAIRFORINST 4790.2, and OPNAVINST 3710.7, and local SOP.

Instructor. SI.

Prerequisite. NTPS-6112 or NTPS-6118.

FCF-6105 2.0 365 B,S,R,M D A/S 1 KC-130J / 1 WST

Goal. Attain and maintain proficiency in partial FCF flight profiles B, C, or D.

Requirements

Evaluate
- FCF profiles "B", "C", or "D" checklists
- Systems knowledge
- FCF documentation
- QA brief
- QA debrief

Performance Standard. NFM, COMNAVAIRFORINST 4790.2, and OPNAVINST 3710.7, and local SOP.

Instructor. SI.

Prerequisite. FCF-6104.

FCF-6106 4.0 * B,S D S/A 1 WST / 1 KC-130J

Goal. Introduce full FCF flight profile "A".

Requirements

Introduce
- FCF profile "A" checklist
- Review systems
- FCF documentation
- QA brief
- QA debrief

Performance Standard. NFM, COMNAVAIRFORINST 4790.2, and OPNAVINST 3710.7, and local SOP.

Instructor. SI.

Prerequisite. NTPS-6112 or NTPS-6118.

FCF-6107 4.0 365 B,S,R,M D A/S 1 KC-130J / 1 WST

Goal. Attain and maintain proficiency in full FCF flight profile "A".

Requirements

Evaluate
- FCF profile "A" checklist
- Systems knowledge
- FCF documentation
- QA brief
- QA debrief

Performance Standard. NFM, COMNAVAIRFORINST 4790.2, and OPNAVINST 3710.7, and local SOP.

Instructor. SI.

Prerequisite. FCF-6106.

3.19.2 NATOPS (NTPS)

Purpose. The purpose of this stage is to attain and maintain proficiency in qualifications as a Crewmaster, Crewmaster Crew Chief, or Crewmaster Loadmaster per NATOPS. This stage also includes the requirements of quarterly emergency procedures review.

NTPS Overview. The following events are included in the NTPS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
NTPS-6110	3.0	365	B,S,R,M	(N)	A	1	CM3 NATOPS
NTPS-6111	3.0	365	B,S,R,M	(N)	A	1	CM2 NATOPS
NTPS-6112	3.0	365	B,S,R,M	(N)	A	1	CMCC NATOPS
NTPS-6113	3.0	365	B,S,R,M	(N)	A	1	CMLM NATOPS
NTPS-6118	3.0	365	B,S,R,M	(N)	A	1	CM1 NATOPS
NTPS-6120	1.0	90	B,S,R,M	(N)	S/G	1	Quarterly Emergency Proc. Review

Admin Notes

(1) No ATFs exist for this stage. The NATOPS Worksheet and Evaluation forms are all that is required and will be placed in NATOPS jackets.

(2) APRB recommendation is required prior to NTPS-6111 and NTPS-6118.

(3) Designation letters shall be placed in APR.

(4) NTPS-6112 and NTPS-6113 are only for current Crew Chiefs and Loadmasters who were trained under previous Crew Chief and Loadmaster Training and Readiness Chapters before the T&R was combined 19 Apr 2013. These two events shall not be used for new qualifications of Crewmaster Crew Chief and Loadmaster.

NTPS-6110 3.0 365 B,S,R,M (N) A 1 KC-130J

Goal. Crewmaster Level 3 (CM3) NATOPS Evaluation.

Requirements. Crewmaster will complete a standardized flight evaluation. Upon designation, the Crewmaster will be qualified as a Crewmaster Level 3 (CM3)

Performance Standard. NFM.

Instructor. CM NI/ANI, or a CMLM NI/ANI and CMCC NI/ANI.

Prerequisite. FAM-1000, FAM-1001, FAM-1103, FAM-1151, TN-1200, AAR-1600, and AAR-1601.

NTPS-6111 3.0 365 B,S,R,M (N) A 1 KC-130J

Goal. Crewmaster Level 2 (CM2) NATOPS Evaluation.

Requirements. Crewmaster will complete a standardized flight evaluation. Upon designation, the Crewmaster will be qualified as a Crewmaster Level 2 (CM2)

Performance Standard. NFM.

Instructor. CM NI/ANI, or a CMLM NI/ANI and CMCC NI/ANI.

Prerequisite. NTPS-6110, FAM-6903, and SYS-6919.

NTPS-6112 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Crewmaster Crew Chief NATOPS Evaluation.

Requirements. Crewmaster Crew Chief will complete a standardized flight evaluation.

Performance Standard. NFM.

Instructor. CM NI/ANI or CMCC NI/ANI.

Prerequisite. Previously qualified as CMCC.

NTPS-6113 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Crewmaster Loadmaster NATOPS Evaluation.

Requirements. Crewmaster Loadmaster will complete a standardized flight evaluation.

Performance Standard. NFM.

Instructor. CM NI/ANI or CMLM NI/ANI.

Prerequisite. Previously qualified as CMLM.

NTPS-6118 3.0 365 B,S,R,M (N) A 1 KC-130J

Goal. Crewmaster Level 1 (CM1) NATOPS Evaluation.

Requirements. Crewmaster will complete a standardized flight evaluation. Upon designation, the Crewmaster will be qualified as a Crewmaster Level 1 (CM1)

Performance Standard. NFM.

Instructor. CM NI/ANI, or a CMLM NI/ANI and CMCC NI/ANI.

Prerequisite. NTPS-6111, ACS-6928, PC-6930, PC-6932, PC-6933, and PC-6934.

NTPS-6120 1.0 90 B,S,R,M (N) S/G 1 WST / 1 KC-130J

Goal. Quarterly Emergency Procedures Review.

Requirements. All Crewmasters will complete a quarterly emergency review. CMCC, CM1, and CM2s should complete their quarterly emergency procedures review in the simulator if available. CMLM and CM3s shall complete their quarterly emergency procedures review in the aircraft on the ground in the form of a "cabin drill".

Performance Standard. NFM.

Instructor. CM NI/ANI, or a CMLM NI/ANI and CMCC NI/ANI, or a WST CI.

3.19.3 Refueling Supervisor Check Flight (RS)

Purpose. The purpose of this stage is to attain and maintain proficiency as RS on ADGR missions.

RS Overview. The following events are included in the RS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
RS-6660	3.0	365	B,R,M	(N)	A	1	ADGR RS

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) Initial event shall include rotary wing / tilt rotor receivers. Subsequent proficiency updates may be conducted with tactical ground vehicles.

(3) Initial event shall include a minimum of 2 points, transfer of fuel, and conducted at night with use of NVDs. Subsequent proficiency updates may be conducted during the day.

(4) RS letter shall be placed in APR.

(5) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

RS-6660 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency as a RS on ADGR missions.

Requirements

Evaluate

ADGR planning
- Site development and layout
- Lighting and NVD considerations
- ADGR equipment type and quantity considerations
- KC-130 ingress/egress to ADGR site
- Receiver ingress/egress to ADGR site
- Receiver control through ADGR site
- Receiver flow through ADGR site
- Downed receivers in points

Fuel planning
Fuel spill and hose overpressures
Emergency breakdown and evacuation
Emergencies
Safety considerations
ADGR equipment preflight and loading (pre-stage of equipment)
Crew brief
RPO brief (setup and breakdown choreography)
Site setup
Execution
Site breakdown

Performance Standard. NFM and Air NTTP.

Instructor. WTI.

Prerequisite. ADGR-3660.

3.19.4 Quality Assurance Safety Observer (QASO)

Purpose. The purpose of this stage is to attain and maintain proficiency as QASO on BI missions.

QASO Overview. The following events are included in the QASO stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
QASO-6710	3.0	365	B,R,M	(N)	A	1	QASO

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) Initial event shall include use of flare dispenser and subsequent proficiency updates may use hand-launching procedures.

(3) QASO letter shall be placed in APR.

(4) See courseware as outlined in the MAWTS-1 KC-130J Course Catalog for any pre-event requirements.

QASO-6710 3.0 365 B,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency as a QASO on BI missions.

Requirements

Evaluate
Crew requirements
Pilot and QASO planning
BI equipment requirements and preflight
Extra survival equipment requirements
General aircraft preparation for ramp and door
APF acceptance inspection and storage loading
Weight and balance and CNI-MU input (as required)
Brief team leader and team member duties
FENCE checklist
Execution and conduct of battlefield illumination checklist
QASO duties
Flare dispenser installation
APF timer settings
Flare dispenser loading
Flare delivery (flare dispenser shall be used; hand launch may be discussed or performed)
Emergencies
Hot flare
APF timer separation

Fire/Smoke/Fumes elimination

Performance Standard. NFM, Air NTTP, and NAVAIR 01-75GAA-9.

Instructor. WTI.

Prerequisite. 4711.

Ordnance. LUU-2 and/or LUU-19 series APFs.

3.19.5 Familiarization (FAM)

Purpose. The purpose of this stage is to provide training on flight station preflight and normal ACS duties. This stage provides the foundation to further training of advanced systems.

FAM Overview. The following events are included in the FAM stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
FAM-6900	2.0	*	B,S	(N)	S/G	1	Flight Station Preflight Intro
FAM-6901	2.0	*	B,S	(N)	S/G	1	Flight Station Preflight Practice
FAM-6902	2.0	*	B,S	(N)	S/A	1	Normal ACS Duties Intro
FAM-6903	2.0	*	B,S,R	(N)	A/S	1	Normal ACS Duties Review

Admin Notes

(1) FAM-6903 initial event shall be conducted in aircraft but subsequent refreshers may be conducted in simulator.

(2) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

FAM-6900 2.0 * B,S (N) S/G 1 WST / 1 KC-130J

Goal. Introduce flight station preflight.

Requirements

Introduce

RMM preflight
Flight station preflight
Flight station preflight limitations
AMU operations
CNBP operations
CNI-MU operations
QRH ACAWS and emergency procedures checklists

Performance Standard. NFM.

Instructor. SI.

Prerequisite. NSQ-2150, TN-2250, CAT-3510, CAT-3511, CAT-3512, CAT-3513, and NTPS-6110.

FAM-6901 2.0 * B,S (N) S/G 1 WST / 1 KC-130J

Goal. Practice flight station preflight.

Requirements

Review

RMM preflight
Flight station preflight
Flight station preflight limitations
AMU operations
CNBP operations
CNI-MU operations
QRH ACAWS and emergency procedures checklists

Performance Standard. NFM.

Instructor. SI.

Prerequisite. FAM-6900.

FAM-6902 2.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Introduce normal ACS duties.

Requirements

- Introduce
  - Power up procedure
  - ATIS and TOLD input
  - Before start flows and checklist
  - Engine start procedure
  - Before taxi flows and checklist
  - Taxi
  - Before takeoff flows and checklists
    - Before takeoff (above the line)
    - Before takeoff (below the line)
  - Takeoff and calling an "Abort"
  - After takeoff flows and checklist
  - Fuel dumping procedures and precautions
  - Inflight duties
    - Fuel management
    - Primary and secondary fuel management
    - Systems monitoring
  - In-range flows and checklist
  - Approach checklist
  - Landing fuel sink rate limitations
  - Low fuel procedures
  - Before landing flows and checklist
  - Landing
    - RADALT calls
    - Calling a "Go around"
  - After landing flows and checklist
  - Shutdown checklist
  - Leaving the aircraft checklist
  - RMM debrief and maintenance action forms (MAFS)
- Review
  - RMM preflight
  - Flight station preflight
  - Flight station preflight limitations
  - AMU operations
  - CNBP operations
  - CNI-MU operations
  - QRH ACAWS and emergency procedures checklists

Performance Standard. NFM.

Instructor. SI.

Prerequisite. FAM-6901.

FAM-6903 2.0 * B,S,R (N) A/S 1 KC-130J / 1 WST

Goal. Review normal ACS duties and flight station preflight.

Requirements

- Review
  - RMM preflight

Flight station preflight
Flight station preflight limitations
AMU operations
CNBP operations
CNI-MU operations
QRH ACAWS and emergency procedures checklists
Power up procedure
ATIS and TOLD input
Before start flows and checklist
Engine start procedure
Before taxi flows and checklist
Taxi
Before takeoff flows and checklists
    Before takeoff (above the line)
    Before takeoff (below the line)
Takeoff and calling an "Abort"
After takeoff flows and checklist
Fuel dumping procedures and precautions
Inflight duties
    Fuel management
    Primary and secondary fuel management
    Systems monitoring
In-range flows and checklist
Approach checklist
Landing fuel sink rate limitations
Low fuel procedures
Before landing flows and checklist
Landing
    RADALT calls
    Calling a "Go around"
After landing flows and checklist
Shutdown checklist

Performance Standard. NFM.

Instructor. SI.

Prerequisite. FAM-6902.

3.19.6 Systems (SYS)

Purpose. The purpose of this stage is to provide training on advanced systems training to facilitate trouble shooting and in-depth understanding of the systems. This stage augments training of normal duties at the ACS.

SYS Overview. The following events are included in the SYS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
SYS-6910	4.0	*	B,S	(N)	G	1	APU System
SYS-6911	6.0	*	B,S	(N)	S/A	1	Engine System
SYS-6912	6.0	*	B,S	(N)	S/A	1	Propeller System
SYS-6913	6.0	*	B,S	(N)	S/A	1	Fuel System
SYS-6914	6.0	*	B,S	(N)	S/A	1	Electrical System
SYS-6915	6.0	*	B,S	(N)	S/A	1	Hydraulic System
SYS-6916	6.0	*	B,S	(N)	S/A	1	Bleed Air & Ice Prot. System
SYS-6917	6.0	*	B,S	(N)	S/A	1	Air Conditioning & Press. System
SYS-6918	6.0	*	B,S	(N)	S/A	1	Communication/Navigation System
SYS-6919	4.0	*	B,S,R	(N)	S	1	Emergency Procedures System

Admin Notes

(1) SYS-6910 is conducted entirely on the ground using an actual aircraft.

(2) SYS-6911 through 6918 is conducted on the WST and ground training using an actual aircraft. If the WST is not available then an actual aircraft in flight with a combination of ground training on an actual aircraft shall be used. The ground training consists of component location identification and dedicated systems discussion designed at a minimum of 2 hours required.

(3) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

SYS-6910 4.0 * B,S (N) G 1 KC-130J

Goal. Review APU system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
APU maintenance publication
APU components, location, and general operation
APU fuel
APU starting and ignition
APU bleed air
APU controls
APU indicating
APU oil system
APU generator

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. FAM-6903.

SYS-6911 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review engine system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Engine maintenance publications
Engine components, locations, and general operation
Engine fuel
Engine ignition
Engine bleed air
Engine control
Engine indicating
Engine oil
Engine starting system

Performance Standard. NFM, and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6910.

SYS-6912 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review propeller system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Propeller maintenance publications

Propeller components, locations, and general operation
Propeller control unit
Propeller over-speed governor
Propeller high pressure pump
Propeller ground beta enable valve (GBEV)
Propeller beta tube
Propeller damage limitations
Propeller grease leak limitations

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6911.

SYS-6913 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review fuel system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Fuel maintenance publications
Fuel system components, locations, and general operation
Fuel indicating system
Fuel distribution system
Fuel tank vent system
Fuel tank construction
Fuel manifolds
Fuel pumps and valves
Fuel management controller

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6912.

SYS-6914 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review electrical system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Electrical maintenance publications
Primary and secondary AC electrical components, locations, and general operation
DC electrical system components, locations, and general operation
AC and DC electrical system distribution
ECBU system and locations
External power
Low voltage power supply (LVPS) and power panel distribution unit (PPDU) system and locations
1553 data bus system integration

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6913.

SYS-6915 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review hydraulic system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Hydraulic maintenance publications
Utility and booster hydraulic system components, locations, and general operation
Auxiliary hydraulic system components, locations, and general operation
Engine hydraulic pumps
Flight control systems
Wing flap system
Landing gear system
Brakes, anti-skid, and tires and wheels
Nose wheel steering
Cargo ramp and door
Hydraulic leak limits
Tire wear limits

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6914.

SYS-6916 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review bleed air and ice protection system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Bleed air and Anti-icing maintenance publications
Bleed air system (BAECS) components, locations, and general operation
Avionics cooling system components, locations, and general operation
Fire Overheat Detection (FODS) system components, locations, and general operation
Anti-icing an de-icing components, locations, and general operation
Windshield anti-icing system components, locations, and general operation
Propeller anti-icing and de-icing system components, locations, and general operation
Ice detection system

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6915.

SYS-6917 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review air conditioning and pressurization system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Air conditioning, pressurization, and LOX maintenance publications
Air conditioning system components, locations, and general operation
Pressurization system components, locations, and general operation
Liquid oxygen (LOX) components, locations, and general operation

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6916.

SYS-6918 6.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Review communication and navigation system knowledge and troubleshooting.

Requirements

Review

Malfunctions and emergencies
Communication and navigation publications
Pitot static/distributed air data system
Stall warning system
Embedded GPS/inertial navigation system
AN/APX-100 (V) IFF system
HG-9550 radar altimeter system
AN/ARN-149 automatic direction finder
AN/ARN-147 VOR/ILS/MB system
AN/ARN-153 TACAN
AN/ARN-139 (V) TACAN
LPCR-130J low power color radar system
Digital Map
TCAS system
GCAS system
Get home control radio system
AN/ARC-190 HF radio system
AN/ARC-222 VHF radio system
AN/ARC-164 (V) UHF radio system
DF-301 E UHF direction finder
AN/ARC-210 SATCOM system
AN/AIC-13 public address system
AN/AIC-18 intercommunication system
KY-58 secure voice speech encryption system

Performance Standard. NFM and applicable maintenance publications.

Instructor. SI.

Prerequisite. SYS-6917.

SYS-6919 4.0 * B,S,R (N) S 1 WST

Goal. Review emergency procedure duties at the ACS.

Requirements. Review all emergency procedures reviewed on SYS-6910 to 6918 while performing duties at the ACS.

Performance Standard. NFM.

Instructor. SI.

Prerequisite. SYS-6918.

3.19.7 Augment Crew Station (ACS)

Purpose. The purpose of this stage is to provide training on inflight duties at the ACS for specific missions.

ACS Overview. The following events are included in the ACS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
ACS-6920	2.0	365	B,S,R,M	(N)	S/A	1	ACS Air NTTP Checklist
ACS-6921	6.0	365	B,S,R,M	(N)	A	1	ACS Long Range Navigation
ACS-6922	2.0	365	B,S,R,M	(N)	S/A	1	ACS Tactical Navigation/LAT
ACS-6923	2.0	365	B,S,R,M	(N)	S/A	1	ACS Threat Reaction
ACS-6924	2.0	730	B,S,R,M	(N)	A	1	ACS Assault Landing Zone
ACS-6925	4.0	*	B,S	(N)	G		ACS ARO Panel Classroom
ACS-6926	3.0	*	B,S	D	S/A	1	ACS ARO Panel Intro
ACS-6927	3.0	*	B,S	(N)	S/A	1	ACS ARO Panel Practice
ACS-6928	3.0	180	B,S,R,M	(N)	S/A	1	ACS ARO Panel

Admin Notes

(1) ATF is not required for ACS-6925.

(2) ACS-6920 through 6928 may be completed while training toward CM2 qualification or after CM2 qualification. However these events shall not be flown without a SI unless CM2 qualified.

(3) ACS-6928 initial event shall be flown in aircraft and subsequent proficiency updates may be flown in simulator.

(4) See courseware as outlined in the MAWTS-1 KC-130J and KC-130J FRD Course Catalogs for any pre-event requirements.

ACS-6920 2.0 365 B,S,R,M (N) S/A 1 WST / 1 KC-130J

Goal. Attain and maintain proficiency in duties conducting the various Air NTTP tactical checklists at the ACS.

Requirements

Review
- BI checklist
- Combat offload checklist
- Cockpit AD
  - CDS/HE/personnel ramp checklist
  - Personnel/bundles paratroop door checklist
- FENCE checklist

Performance Standard. NFM and Air NTTP.

Instructor. SI.

Prerequisite. FAM-6903.

ACS-6921 6.0 365 B,S,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in duties at the ACS for long range navigation mission.

Requirements

Review
- Overwater equipment requirements
- HF radio
- DTADS operations
- CNI-MU custom waypoint input
- Destination ground and maintenance capabilities
- Fuel planning and verification
- Foreign clearance guide requirements
- Ditching procedures
- Overwater bailout procedures

Performance Standard. NFM.

Instructor. SI.

Prerequisite. LRN-2162 and FAM-6903.

ACS-6922 2.0 365 B,S,R,M (N) S/A 1 WST / 1 KC-130J

Goal. Attain and maintain proficiency in duties at the ACS during a low altitude tactics or tactical navigation mission.

Requirements

Review

Flight station equipment security for TN/LAT
CMI-MU TACPLOT input
FENCE checklist
Aircraft systems monitoring
Lookout duties

Performance Standard. NFM and Air NTTP.

Instructor. SI.

Prerequisite. TN-2250 and FAM-6903.

ACS-6923 2.0 365 B,S,R,M (N) S/A 1 WST / 1 KC-130J

Goal. Attain and maintain proficiency in duties at the ACS during a threat reaction mission.

Requirements

Review

Defensive systems
Defensive controls and operation
FENCE checklist
Aircraft systems monitoring
Lookout duties

Performance Standard. NFM and Air NTTP.

Instructor. SI.

Prerequisite. TR-2400 and FAM-6903.

ACS-6924 2.0 730 B,S,R,M (N) A 1 KC-130J

Goal. Attain and maintain proficiency in duties at the ACS during an assault landing zone mission.

Requirements

Review

Aircraft exterior preparation verification
Tire inflation/deflation
Ground flotation/California Bearing Ration (CBR)/Pavement Classification Number (PCN)
Performance data
Brief observers on “brown-out”
Pressurization and air-conditioning panel operation
Aircraft systems monitoring

Performance Standard. NFM and Air NTTP.

Instructor. SI.

Prerequisite. FAM-6903.

ACS-6925 4.0 * B,S (N) G

Goal. Discuss the aerial refueling system in the classroom environment providing in-depth knowledge of the system.

Requirements. Receive classroom instruction with approved curriculum as outlined in the KC-130J FRD Course Catalog.

Instructor. SI.

Prerequisite. SYS-6915.

ACS-6926 3.0 * B,S D S/A 1 WST / 1 KC-130J

Goal. Introduce the aerial refueling system operation at the ACS.

Requirements

- Introduce
  - AAR system preflight
  - AAR fuel/hydraulic system components
  - Drogue change operation
  - CNI-MU controls and operation
  - Refuel control panel controls and operation
  - Refuel control panel soft-panel controls and operation
  - Fuel management panel controls and operation
  - Fuel management panel soft-panel controls and operation
  - Airspeed limitations – High/Low speed drogues
  - Fuel system limitations
  - Normal refueling operations
    - Before AAR hose deployment
    - AAR hose deployment
    - Reel response test
    - Alternate reel response test
    - Fuel delivery (Fuselage tank installed)
      - Fuel transfer from wing tanks to fuselage tank
      - Alternate refueling pump operation
    - Fuel delivery (Fuselage tank removed)
    - AAR hose retraction
      - No stowed and lock indication
    - After AAR hose retraction
  - Malfunction/Emergencies
    - Aerial refueling pod fuel leak
    - Hose deployment failure
    - Drogue/hose damage
    - Unstable hose
    - Emergency reel operation and refueling
    - Hose guillotine
    - Landing with trailing hose
    - Hose extends beyond full trail
    - Fast trailing hose
    - Emergency signals
    - Aircraft fuel system emergencies associated with AAR
    - Aircraft hydraulic system emergencies associated with AAR
- Review
  - AAR terminology
  - EMCON procedures

Performance Standard. NFM, ATP, Air NTTP, and applicable maintenance publications.

Instructor. SI.

Prerequisite. AAR-3600, AAR-3601, AAR-3650, and ACS-6925.

ACS-6927 3.0 * B,S (N) S/A 1 WST / 1 KC-130J

Goal. Practice operation of the aerial refueling system at the ACS.

Requirements

Practice

- AAR system preflight
- AAR Fuel/Hydraulic System components
- Drogue change operation
- CNI-MU controls and operation
- Refuel control panel controls and operation
- Refuel control panel soft-panel controls and operation
- Fuel management panel controls and operation
- Fuel management panel soft-panel controls and operation
- Airspeed limitations – high/low speed drogues
- Fuel system limitations
- AAR terminology
- EMCON procedures
- Normal refueling operations
  - Before AAR hose deployment
  - AAR hose deployment
  - Reel response test
  - Alternate reel response test
  - Fuel delivery (fuselage tank installed)
    - Fuel transfer from wing tanks to fuselage tank
    - Alternate refueling pump operation
  - Fuel delivery (fuselage tank removed)
  - AAR hose retraction
    - No stowed and lock indication
  - After AAR hose retraction
- Malfunctions/Emergencies
  - Aerial refueling pod fuel leak
  - Hose deployment failure
  - Drogue/hose damage
  - Unstable hose
  - Emergency reel operation and refueling
  - Hose guillotine
  - Landing with trailing hose
  - Hose extends beyond full trail
  - Fast trailing hose
  - Emergency signals
  - Aircraft fuel system emergencies associated with AAR
  - Aircraft hydraulic system emergencies associated with AAR

Performance Standard. NFM, ATP, Air NTTP, and applicable maintenance publications.

Instructor. SI.

Prerequisite. ACS-6926.

ACS-6928 3.0 180 B,S,R,M (N) S/A 1 WST / 1 KC-130J

Goal. Attain and maintain proficiency operating the aerial refueling system at the ACS.

Requirements

Review

- AAR system preflight
- AAR fuel/hydraulic system components

Drogue change operation
CNI-MU controls and operation
Refuel control panel controls and operation
Refuel control panel soft-panel controls and operation
Fuel management panel controls and operation
Fuel management panel soft-panel controls and operation
Airspeed limitations – high/low speed drogues
Fuel system limitations
AAR terminology
EMCON procedures
Normal refueling operations
- Before AAR hose deployment
- AAR hose deployment
- Reel response test
- Alternate reel response test
- Fuel delivery (fuselage tank installed)
  - Fuel transfer from wing tanks to fuselage tank
  - Alternate refueling pump operation
- Fuel delivery (fuselage tank removed)
- AAR hose retraction
  - No stowed and lock indication
- After AAR hose retraction

Malfunctions/Emergencies
- Aerial refueling pod fuel leak
- Hose deployment failure
- Drogue/hose damage
- Unstable hose
- Emergency reel operation and refueling
- Hose guillotine
- Landing with trailing hose
- Hose extends beyond full trail
- Fast trailing hose
- Emergency signals
- Aircraft fuel system emergencies associated with AAR
- Aircraft hydraulic system emergencies associated with AAR

Performance Standard. NFM, ATP, Air NTTP, and appropriate maintenance publications.

Instructor. SI.

Prerequisite. SYS-6919 and ACS-6927.

3.19.8 Plane Captain (PC)

Purpose. The purpose of this stage is to provide training on plane captain duties toward CM1 qualification.

RS Overview. The following events are included in the RS stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
PC-6930	40.0	*	B,S	(N)	G		GSE Requirements
PC-6931	6.0	*	B,S	(N)	G	1	Daily Inspection
PC-6932	2.0	*	B,S,R	(N)	G	1	Turn Around Inspection
PC-6933	40.0	*	B,S,R	(N)	G		NAMP Lesson Requirements
PC-6934	40.0	*	B,S	(N)	G	1	Expeditionary Maintenance

Admin Notes

(1) COMNAVAIRFORINST 4790.2 authorizes “commands where Naval Aircrew perform the functions of a plane captain, completion of the training curriculum and the designation as a Naval Aircrew by the Commanding Officer per the NATOPS Evaluation Report (OPNAV 3710/7) shall qualify the aircrew for plane captain duties. In such

cases, the Naval Aircrew training syllabus must include all plane captain qualifications and requirements. Naval Aircrew qualified as plane captains per this paragraph, are not required to take a separate plane captain examination, appear before a Plane Captain selection board, or be designated via the Plane Captain Designation (CNAF 4790/158)". This stage provides the aircrew curriculum for the COMNAVAIRFORINST requirements.

(2) This stage and NTPS-6118 completion results in a PC designation. A signed copy of the OPNAV 3710/7 form shall be scanned into ASM under Plane Captain Designation and routed.

(3) Periodicals and refresher training are in accordance with COMNAVAIRFORINST 4790.2. If periodicals are not conducted within the prescribed timeframe or a PC does not perform PC duties within 90 days the PC shall complete refresher training. The refresher training will consist of PC-6932, PC-6933, and evaluated by a CMCC/CM NI/ANI on any flight. A copy of PC-6932 and PC-6933 ATFs shall be scanned into ASM under Plane Captain Refresher and routed.

(4) See courseware as outlined in the KC-130J FRD Course Catalog for any pre-event requirements.

PC-6930 40.0 * B,S (N) G

Goal. Complete GSE requirements.

Requirements. Attain licensing on GSE. At a minimum the PC will be licensed on a mobile electrical power plant (i.e. NC-10A/B/C and A/M32A-108), air start unit (i.e. A/U47A-5), mid-range tow tractor (i.e. A/S32A-45), nitrogen cart (i.e. NAN-4B), and liquid oxygen cart (i.e. TMU-27M). If these GSE are superseded by newer equipment the new equipment will take its place. The ATF will list all GSE requirements and the instructor will use ASM to verify completion.

Performance Standard. Applicable GSE publications and ASM.

Instructor. SI will verify completion of GSE requirements in ASM.

PC-6931 6.0 * B,S (N) G 1 KC-130J

Goal. Conduct daily inspections.

Requirements. Conduct daily inspections with each respective work.

Performance Standard. NAVAIR 01-75GAJ-6-2.

Instructor. SI will verify completion of each work center daily.

PC-6932 2.0 * B,S,R (N) G 1 KC-130J

Goal. Conduct turnaround inspection.

Requirements. Conduct turnaround inspection.

Performance Standard. NAVAIR 01-75GAJ-6-1.

Instructor. SI.

PC-6933 40.0 * B,S,R (N) G

Goal. Review 4790.2 PC requirements.

Requirements

Review

Indoctrination interview
Required readings (applicable sections)
Safety Ashore PQS
Flight line Familiarization and Safety
Egress/Explosive System Checkout Program
Noise, Exhaust, and Propeller Hazards
Tire and Wheel Maintenance Safety Program
General or Avionics Corrosion Control Course
FOD Prevention Program

Tool Control Program
Fuel Surveillance Program
Navy Oil Analysis Program
Oil Consumption Program
Hydraulic Contamination Control Program
Hazardous Material Control and Management Program
Technical Publications
3M Documentation
Support Equipment Operator Training and Licensing Program
Fire Fighting Procedures and Responsibilities
Moving or Towing Aircraft
Brake Riding
Cleaning Aircraft
Aircraft Preservation
Duct Diving
Aircraft Fastener Integrity Inspection
Daily and Turnaround Inspections
Special Inspections
Conditional Inspections
Fueling and Defueling
Nitrogen System Servicing
Hydraulic System Servicing
Engine/Transmission Oil System Servicing
Liquid Oxygen Converter Handling Safety
Aircraft Ordnance and CADS
T/M/S NATOPS Procedures and Emergency Procedures
Hand Signals and Launch/Recovery Procedures
Hot Brake Procedures
Support Equipment Misuse
Aircraft security, tie-down, and heavy weather procedures
Aircraft ordnance and armament equipment

Performance Standard. COMNAVAIRFORINST 4790.2 and applicable maintenance publications.

Instructor. SI.

Prerequisite. NTPS-6111.

PC-6934 40.0 * B,S (N) G 1 KC-130J

Goal. Review expeditionary maintenance requirements.

Requirements

Review
Use of DTADS diagnostics and software reloading
Removal and replacement of engine vibration Sensors
Removal, inspection, and replacement of magnetic indication plugs
Removal, inspection, and replacement of engine oil filters
Inoperable brake capping
Inoperable generator capping

Performance Standard. Applicable maintenance publications.

Instructor. SI.

Prerequisite. NTPS-6111.

3.19.9 Engine Run (ER)

Purpose. The purpose of this stage is to attain and maintain proficiency performing engine runs.

ER Overview. The following events are included in the ER stage of training.

Event	Time	Proficiency Period	POI	Condition	Device	Number	Description
ER-6940	4.0	*	B,S	(N)	S/G	1	Engine Run Classroom and Intro
ER-6941	2.0	*	B,S	(N)	S/G	1	Engine Run Practice
ER-6942	2.0	*	B,S	(N)	S/G	1	Engine Run Review
ER-6943	2.0	365	B,S,R,M	(N)	G/S	1	Engine Run Practical Application

Admin Notes

(1) APRB recommendation is required prior to commencing this stage.

(2) ER-6140 shall complete 2.0 hours receiving classroom instruction and 2.0 hours in the simulator or aircraft receiving introduction.

(3) ER-6143 ATF shall be scanned into ASM and routed.

ER-6940 4.0 * B,S (N) S/G 1 WST / 1 KC-130J

Goal. Introduce and discuss the ground engine run procedures in the classroom environment providing in-depth knowledge of the aircraft systems. Completion of first engine run OJT toward Taxi/Turn qualification shall be accomplished after class.

Requirements

Introduce/Discuss
- Screen aircraft discrepancies book (ADB)
- Coordinate with maintenance control and work centers
- Maintenance engine run crew brief
- Exterior inspection
- Interior inspection
- Flight station inspection
- UHF or VHF radio operation
- Communications established
- Before engine start checklist
- Engine starting procedures
- Special consideration for engine run with mechanic on work stand
- Engine monitoring
- Engine stop/start shutdown conditions
- Engine fire handle shutdown conditions
- Leakage rates for components
- Operating limits for engine ground operation
- Wind direction and speed limitations
- Aircraft positioning and power settings
- Normal engine shutdown
- Maintenance engine runs
  - Engine and propeller run-up checks
  - Engine dry motoring check
  - Engine wet motoring check
  - Operational checkout of engine
  - Engine ground run to capture takeoff record
  - Performance check of engine
  - Operational checkout of Automatic Thrust Control Systems (ATCS)
- Emergency procedures
  - Engine Fire
  - APU Fire
  - Ground Evacuation

Performance Standard. NFM and applicable maintenance publications.

Instructor. CM NI/ANI or CMCC NI/ANI.

Prerequisite. NTPS-6118 or NTPS-6112.

ER-6941 2.0 * B,S (N) S/G 1 WST / 1 KC-130J

Goal. Practice ground engine run procedures. Completion of second engine run OJT toward Taxi/Turn qualification shall be accomplished.

Requirements

Practice

- Screen aircraft discrepancies book (ADB)
- Coordinate with maintenance control and work centers
- Maintenance engine run crew brief
- Exterior inspection
- Interior inspection
- Flight station inspection
- UHF or VHF radio operation
- Communications established
- Before engine start checklist
- Engine starting procedures
- Special consideration for engine run with mechanic on work stand
- Engine monitoring
- Engine stop/start shutdown conditions
- Engine fire handle shutdown conditions
- Leakage rates for components
- Operating limits for engine ground operation
- Wind direction and speed limitations
- Aircraft positioning and power settings
- Normal engine shutdown
- Maintenance engine runs
  - Engine and propeller run-up checks
  - Engine dry motoring check
  - Engine wet motoring check
  - Operational checkout of engine
  - Engine ground run to capture takeoff record
  - Performance check of engine
  - Operational checkout of Automatic Thrust Control Systems (ATCS)
- Emergency procedures
  - Engine Fire
  - APU Fire
  - Ground Evacuation

Performance Standard. NFM and applicable maintenance publications.

Instructor. CM NI/ANI or CMCC NI/ANI.

Prerequisite. ER-6940.

ER-6942 2.0 * B,S (N) S/G 1 WST / 1 KC-130J

Goal. Review ground engine run procedures. Completion of third engine run OJT toward Taxi/Turn qualification shall be accomplished.

Requirements

Review

- Screen aircraft discrepancies book (ADB)
- Coordinate with maintenance control and work centers
- Maintenance engine run crew brief
- Exterior inspection
- Interior inspection

Flight station inspection
UHF or VHF radio operation
Communications established
Before engine start checklist
Engine starting procedures
Special consideration for engine run with mechanic on work stand
Engine monitoring
Engine stop/start shutdown conditions
Engine fire handle shutdown conditions
Leakage rates for components
Operating limits for engine ground operation
Wind direction and speed limitations
Aircraft positioning and power settings
Normal engine shutdown
Maintenance engine runs
Engine and propeller run-up checks
Engine dry motoring check
Engine wet motoring check
Operational checkout of engine
Engine ground run to capture takeoff record
Performance check of engine
Operational checkout of Automatic Thrust Control Systems (ATCS)
Emergency procedures
Engine Fire
APU Fire
Ground Evacuation

Performance Standard. NFM and applicable maintenance publications.

Instructor. CM NI/ANI or CMCC NI/ANI.

Prerequisite. ER-6941

ER-6943 2.0 365 B,S,R,M (N) G/S 1 KC-130J / 1 WST

Goal. Attain and maintain proficiency in ground engine run procedures. Completion of practical application will qualify as Taxi/Turn qualification upon designation in ASM.

Requirements

Evaluate
Screen aircraft discrepancies book (ADB)
Coordinate with maintenance control and work centers
Maintenance engine run crew brief
Exterior inspection
Interior inspection
Flight station inspection
UHF or VHF radio operation
Communications established
Before engine start checklist
Engine starting procedures
Special consideration for engine run with mechanic on work stand
Engine monitoring
Engine stop/start shutdown conditions
Engine fire handle shutdown conditions
Leakage rates for components
Operating limits for engine ground operation
Wind direction and speed limitations
Aircraft positioning and power settings

Normal engine shutdown
Maintenance engine runs
- Engine and propeller run-up checks
- Engine dry motoring check
- Engine wet motoring check
- Operational checkout of engine
- Engine ground run to capture takeoff record
- Performance check of engine
- Operational checkout of Automatic Thrust Control Systems (ATCS)

Emergency procedures
- Engine Fire
- APU Fire
- Ground Evacuation

Performance Standard. NFM and applicable maintenance publications.

Instructor. CM NI/ANI or CMCC NI/ANI.

Prerequisite. ER-6942.

3.20 KC-130J CREWMASTER T&R MATRIX (1000 Phase)

KC-130J CREWMASTER T&R SYLLABUS MATRIX (1000 Phase)																								
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	ACAD/GRND		SIM		FLIGHT/LIVE		CONDITION	TYPE	# A/C	REFLY INTERVAL	PREREQUISITE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
				B	S	R		#	TIME	#	TIME	#	TIME									
1000 PHASE (CORE INTRODUCTION)																						
FAMILIARIZATION (FAM)																						
FAM	FAM	ELEC.PWR. APPLICATION	1000	X	X				3.0					(N)	G		*		SI			1000
	FAM	AIRCRAFT SERVICING	1001	X	X				3.0					(N)	G		*		SI			1001
	FAM	INFLIGHT PROCEDURES	1100	X	X								3.0	(N)	A	1	*		SI			1100
	FAM	INFLIGHT PROCEDURES	1101	X	X								3.0	(N)	A	1	*	1100	SI			1101
	FAM	INFLIGHT PROCEDURES	1102	X	X								3.0	(N)	A	1	*	1101	SI			1102
	FAM	INFLIGHT PROCEDURES	1103	X	X	X							5.0	(N)	A	1	*	1102	SI			1103
FAM SKILL TOTAL								2	6.0	0	0.0	4	14.0									
NIGHT SYSTEMS HIGH STAGE (NS(H))																						
NS(H)	NS(H)	HLL	1150	X									3.0	HLL	A	1	*	1103	NSI		1150	1150
	NS(H)	LLL	1151	X									3.0	LLL	A	1	*	1150	NSI		1151	1151
NS(H) SKILL TOTAL								0	0.0	0	0.0	2	6.0									
TACTICAL NAVIGATION (TN)																						
TN	TN	AFT OBSERVER	1200	X									2.0	D	A	1	*	1103	MI		1200	1200
TN SKILL TOTAL								0	0.0	0	0.0	1	2.0									
AIR-TO-AIR REFUELING																						
AAR	AAR	FWAAR/TAAR OBSERVER	1600	X									2.0	D	A	1	*	1103	MI		1600	1600
	AAR	HAAR OBSERVER	1601	X									2.0	D	A	1	*	1103	MI		1601	1601
AAR SKILL TOTAL								0	0.0	0	0.0	2	4.0									
1000 PHASE TOTAL								2	6.0	0	0.0	9	26.0									

3.21 KC-130J CREWMASTER T&R MATRIX (2000-6000 Phase)

KC-130J CREWMASTER T&R SYLLABUS MATRIX (2000-6000 Phase)																						
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	GRND		SIM		FLIGHT		CONDITION	TYPE	# AIRCRAFT or SIM	REFLY INTERVAL	ORDNANCE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
				B	S	R		#	TIME	#	TIME	#	TIME									
2000 PHASE (CORE)																						
NIGHT SYSTEMS (NS)																						
NS	NS	NIGHT SYSTEMS QUAL	2150	X		X	X						2.0	NS	A	1	365		NSI		2150	2150
NS SKILL TOTAL								0	0.0	0	0.0	1	2.0									
LONG RANGE NAVIGATION (LRN)																						
LRN	LRN	LONG RANGE NAV	2162	X	X								6.0	(N)	A	1	*		MI			2162
LRN SKILL TOTAL								0	0.0	0	0.0	1	6.0									
TACTICAL NAVIGATION (TN)																						
TN	TN	AFT OBSERVER DAY	2201	X									2.0	D	A	1	365		MI		2201	2201
	TN	AFT OBSERVER W/ NVD	2250	X		X	X						2.0	NS	A	1	365		MI		2250	2250
TN SKILL TOTAL								0	0.0	0	0.0	2	4.0									
THREAT REACTION (TR)																						
TR	TR	GROUND IR TR	2400	X		X	X						2.0	(N)	A	1	365		MI		2400	2400
TR SKILL TOTAL								0	0.0	0	0.0	1	2.0									
2000 PHASE TOTAL								0	0.0	0	0.0	5	14.0									
3000 PHASE (MISSION)																						
ASSAULT LANDING ZONE (ALZ)																						
ALZ	ALZ	COMBAT OFFLOAD	3502	X		X	X						1.0	(N)	A	1	365		CPLI		3502	3502
ALZ SKILL TOTAL								0	0.0	0	0.0	1	1.0									
ASSAULT TRANSPORT STAGE (AT)																						
CAT	CAT	PAX AND BAGS	3510	X		X	X						3.0	(N)	A	1	365		CPLI		3510	3510
	CAT	ROLLING STOCK	3511	X		X	X						3.0	(N)	A	1	365		CPLI		3511	3511
	CAT	PALLETIZED	3512	X		X	X						3.0	(N)	A	1	365		CPLI		3512	3512
	CAT	HAZMAT	3513	X		X	X						3.0	(N)	A	1	365		CPLI		3513	3513
CAT SKILL TOTAL								0	0.0	0	0.0	4	12.0									
AIR-TO-AIR REFUELING																						
AAR	AAR	FWAAR/TAAR OBSERVER	3600	X		X	X						2.0	D	A	1	365		MI		3600	3600
	AAR	HAAR OBSERVER	3601	X		X	X						2.0	D	A	1	365		MI		3601	3601
	AAR	AAR OBSERVER W/ NVD	3650	X		X	X						2.0	NS	A	1	365		MI		3650	3650
AAR SKILL TOTAL								0	0.0	0	0.0	3	6.0									
AVIATION DELIVERED GROUND REFUELING (ADGR)																						
ADGR	ADGR	RPO	3660	X		X	X						2.0	(N)	A	1	365		MI		3660	3660
ADGR SKILL TOTAL								0	0.0	0	0.0	1	2.0									

KC-130J CREWMASTER T&R SYLLABUS MATRIX (2000-6000 Phase)																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	GRND		SIM		FLIGHT		CONDITION	TYPE	# AIRCRAFT or SIM	REFLY INTERVAL	ORDNANCE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
				B	S	R		#	TIME	#	TIME	#	TIME									
AIR DELIVERY (AD)																						
AD	AD	CDS	3703	X		X	X						4.0	(N)	A	1	365		ADI			3703
	AD	SL PERSONNEL	3705	X		X	X						4.0	(N)	A	1	365		ADI		3705	3705
AD SKILL TOTAL								0	0.0	0	0.0	2	8.0									
3000 PHASE TOTAL								0	0.0	0	0.0	11	29.0									
4000 PHASE (CORE PLUS)																						
DEFENSIVE TACTICS (DT)																						
DT	DT	1 VS. 1	4410	X									1.0	D	A	1	*		WTI		4410	
	DT	1 VS. 2	4411	X									1.0	D	A	1	*		WTI		4411	
DT SKILL TOTAL								0	0.0	0	0.0	2	2.0									
4000 PHASE (MISSION PLUS)																						
AIR DELIVERY (AD)																						
AD	AD	COMBINATION AD	4700	X									4.0	(N)	A	1	*		ADI		4700	4700
	AD	MIL FREE FALL AD	4701	X		X	X						2.0	(N)	A	1	365		ADI		4701	4701
	AD	HE	4703	X		X	X						4.0	(N)	A	1	365		ADI		4703	4703
AD TOTAL								0	0.0	0	0.0	3	10.0									
BATTLEFIELD ILLUMINATION (BI)																						
BI	BI	TEAM MEMBER	4710	X									3.0	(N)	A	1	*	LUU Series APFs	ADI		4710	4710
	BI	TEAM LEADER	4711	X		X	X						3.0	(N)	A	1	365	LUU Series APFs	ADI		4711	4711
BI SKILL TOTAL								0	0.0	0	0.0	2	6.0									
HARVEST HAWK (HH)																						
HH	HH	HH GROUND	4803	X	X				3.0					(N)	G	1	*	Griffen CATM & Derringer	MI			4802
HH TOTAL								1	3.0	0	0.0	0	0.0									
CLOSE AIR SUPPORT (CAS)																						
CAS	CAS	CAS	4830	X	X	X	X						2.5	(N)	A	1	730	Griffen CATM & Derringer	MI			4830
CAS SKILL TOTAL								0	0.0	0	0.0	1	2.5									
5000 PHASE (INSTRUCTOR TRAINING)																						
INSTRUCTOR UNDER TRAINING (IUT)																						
IUT	IUT	IUT	5000	X					3.0					(N)	G		*		ANI		5000	5000
	IUT	IUT	5100	X									3.0	(N)	A	1	*		ANI		5100	5100
	IUT	IUT	5101	X									3.0	(N)	A	1	*		ANI		5101	5101
IUT TOTAL								1	3.0	0	0.0	2	6.0									
MISSIONS INSTRUCTOR (MI)																						
MI	MI	MISSIONS INSTRUCTOR	5102	X		X							3.0	(N)	A	1	*		ANI		5102	5102
MI SKILL TOTAL								0	0.0	0	0.0	1	3.0									

KC-130J CREWMASTER T&R SYLLABUS MATRIX (2000-6000 Phase)																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN B	ATTAIN S	ATTAIN R	MAINTAIN	GRND #	GRND TIME	SIM #	SIM TIME	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY INTERVAL	ORDNANCE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
SYSTEMS INSTRUCTOR (SI)																							
SI	SI	SYSTEMS INSTRUCTOR	5103	X		X							3.0	(N)	A	1	*		ANI			5103
SI TOTAL								0	0.0	0	0.0	1	3.0										
NATOPS INSTRUCTOR (NI)																							
NI	NI	NI/ANI IUT	5140	X									2.0	(N)	A	1	*		ANI		5140	5140
	NI	CM NI/ANI	5141	X		X	X						2.0	(N)	A	1	365		NI	X		5141
	NI	CMCC NI/ANI	5142	X		X	X						2.0	(N)	A	1	365		NI	X		5142
	NI	CMLM NI/ANI	5143	X		X	X						2.0	(N)	A	1	365		NI	X		5143
NI TOTAL								0	0.0	0	0.0	4	8.0										
NIGHT SYSTEMS INSTRUCTOR (NSI)																							
NSI	NSI	NSI IUT	5150	X									2.0	NS	A	1	*		NSI		5150	5150
	NSI	NSI IUT	5151	X									2.0	NS	A	1	*		NSI		5151	5151
	NSI	NSI	5152	X		X							2.0	NS	A	1	*		NSI		5152	5152
LATI TOTAL								0	0.0	0	0.0	3	6.0										
CARGO PASSENGER LOADING INSTRUCTOR (CPLI)																							
CPLI	CPLI	CARGO PASSENGER LOADING INST	5510	X		X							3.0	(N)	A	1	*		ANI		5510	5510
CPLI TOTAL								0	0.0	0	0.0	1	3.0										
AIR DELIVERY INSTRUCTOR (ADI)																							
ADI	ADI	AIR DELIVERY INSTRUCTOR	5701	X		X							3.0	(N)	A	1	*		WTI		5701	5701
ADI TOTAL								0	0.0	0	0.0	1	3.0										
6000 PHASE (REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (R,C,Q,D)																							
FUCTIONAL CHECK FLIGHT (FCF)																							
FCF	FCF	PARTIAL FCF	6104	X	X						4.0			D	S/A	1	*		SI			6104
	FCF	PARTIAL FCF	6105	X	X	X	X						2.0	D	A/S	1	365		SI			6105
	FCF	FULL FCF	6106	X	X						4.0			D	S/A	1	*		SI			6106
	FCF	FULL FCF	6107	X	X	X	X						4.0	D	A/S	1	365		SI			6107
FCF TOTAL								0	0.0	2	8.0	2	6.0										
NATOPS (NTPS)																							
NTPS	NTPS	CM3	6110	X	X	X	X						3.0	(N)	A	1	365		ANI	X		6110
	NTPS	CM2	6111	X	X	X	X						3.0	(N)	A	1	365		ANI	X		6111
	NTPS	CMCC	6112	X		X	X						3.0	(N)	A	1	365		ANI	X		6112
	NTPS	CMLM	6113	X		X	X						3.0	(N)	A	1	365		ANI	X		6113
	NTPS	CM1	6118	X	X	X	X						3.0	(N)	A	1	365		ANI	X		6118
	NTPS	QUARTERLY EP REVIEW	6120	X	X	X	X				1.0			(N)	S/A	1	90		ANI	X		
NTPS TOTAL								0	0.0	1	1.0	5	15.0										

KC-130J CREWMASTER T&R SYLLABUS MATRIX (2000-6000 Phase)																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN B	ATTAIN S	ATTAIN R	MAINTAIN	GRND #	GRND TIME	SIM #	SIM TIME	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY INTERVAL	ORDNANCE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
REFUELING SUPERVISOR (RS)																							
RS	RS	ADGR RS	6660	X		X	X						3.0	(N)	A	1	365		WTI		6660	6662
RS TOTAL								0	0.0	0	0.0	1	3.0										
QUALITY ASSURANCE SAFETY OBSERVER (QASO)																							
QASO	QASO	BI QASO	6710	X		X	X						3.0	(N)	A	1	365	LUU Series APFs	WTI		6710	6710
QASO TOTAL								0	0.0	0	0.0	1	3.0										
FAMILIARIZATION (FAM)																							
FAM	FAM	FS PREFLIGHT	6900	X	X						2.0			(N)	S/G	1	*		SI			6900
	FAM	FS PREFLIGHT	6901	X	X						2.0			(N)	S/G	1	*		SI			6901
	FAM	ACS DUTIES	6902	X	X						2.0			(N)	S/A	1	*		SI			6902
	FAM	ACS DUTIES	6903	X	X	X							2.0	(N)	A/S	1	*		SI			6903
FAM TOTAL								0	0.0	3	6.0	1	2.0										
SYSTEMS (SYS)																							
SYS	SYS	APU	6910	X	X				4.0					(N)	G		*		SI			6910
	SYS	ENGINES	6911	X	X				2.0		4.0			(N)	S/A	1	*		SI			6911
	SYS	PROPS	6912	X	X				2.0		4.0			(N)	S/A	1	*		SI			6912
	SYS	FUEL	6913	X	X				2.0		4.0			(N)	S/A	1	*		SI			6913
	SYS	ELECTRICAL	6914	X	X				2.0		4.0			(N)	S/A	1	*		SI			6914
	SYS	HYDRAULICS	6915	X	X				2.0		4.0			(N)	S/A	1	*		SI			6915
	SYS	BLEED AIR & ICE PROT	6916	X	X				2.0		4.0			(N)	S/A	1	*		SI			6916
	SYS	AC/PRESSURIZATION	6917	X	X				2.0		4.0			(N)	S/A	1	*		SI			6917
	SYS	COMNAV	6918	X	X				2.0		4.0			(N)	S/A	1	*		SI			6918
	SYS	EMERGENCY PROCEDURES	6919	X	X	X					4.0			(N)	S	1	*		SI			6919
SYS TOTAL								9	20.0	9	36.0	0	0.0										
AUGMENT CREW STATION (ACS)																							
ACS	ACS	NTTP CHECKLIST	6920	X	X	X	X				2.0			(N)	S/A	1	365		SI			6920
	ACS	LRN	6921	X	X	X	X						6.0	(N)	A	1	365		SI			6921
	ACS	TN/LAT	6922	X	X	X	X				2.0			(N)	S/A	1	365		SI			6922
	ACS	TR	6923	X	X	X	X				2.0			(N)	S/A	1	365		SI			6923
	ACS	ALZ	6924	X	X	X	X						2.0	(N)	A	1	730		SI			6924
	ACS	ARO PANEL AND SYS	6925	X	X				4.0					(N)	G	1	*		SI			6925
	ACS	ARO PANEL AND SYS	6926	X	X				1.0		2.0			D	S/A	1	*		SI			6926
	ACS	ARO PANEL	6927	X	X				1.0		2.0			(N)	S/A	1	*		SI			6927
	ACS	ARO PANEL	6928	X	X	X	X						3.0	(N)	S/A	1	180		SI			6928
ACS TOTAL								3	6.0	5	10.0	3	11.0										

KC-130J CREWMASTER T&R SYLLABUS MATRIX (2000-6000 Phase)																							
SKILL	PREFIX	T&R DESCRIPTION	EVENT NUMBER	ATTAIN			MAINTAIN	GRND		SIM		FLIGHT		CONDITION	TYPE	# AIRCRAFT or SIM	REFLY INTERVAL	ORDNANCE	INSTRUCTOR	EOM	Mirror From	EVENT CONV
				B	S	R		#	TIME	#	TIME	#	TIME									
PLANE CAPTAIN (PC)																						
PC	PC	GSE REQUIREMENTS	6930	X	X				40.0						G		*		SI			6930
	PC	DAILY INSPECTION	6931	X	X				6.0						G		*		SI			6931
	PC	TURN AROUND INSPECTION	6932	X	X	X			2.0						G		*		SI			6932
	PC	4790.2 PC REQUIREMENTS	6933	X	X	X			40.0						G		*		SI			6933
	PC	EXPEDITIONARY MAINTENANCE	6934	X	X				40.0						G		*		SI			6934
PC TOTAL								5	128.0	0	0.0	0	0.0									
ENGINE RUN (ER)																						
ER	ER	ENGINE RUN INTRO	6940	X	X				2.0		2.0				S/G	1	*		ANI			
	ER	ENGINE RUN PRACTICE	6941	X	X						2.0				S/G	1	*		ANI			
	ER	ENGINE RUN REVIEW	6942	X	X						2.0				S/G	1	*		ANI			
	ER	ENGINE PRAC APP	6943	X	X	X	X		2.0						G/S		365		ANI	X		
ER TOTAL								2	4.0	3	6.0	0	0.0									

3.22 KC-130J CREWMASTER ATTAIN / MAINTAIN MATRX

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)															
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
2000 PHASE (CORE)															
NIGHT SYSTEMS (NS)															
NS	NS	NIGHT SYSTEMS QUAL	2150		2150	2150		2.0	NS	A	1	365	1151	Minimum 10 Hrs NVD (5 Hrs LLL)	
NS SKILL TOTAL							1	2.0							
LONG RANGE NAVIGATION (LRN)															
LRN	LRN	LONG RANGE NAV	2162	2162				6.0	(N)	A	1	*	1103		
LRN SKILL TOTAL							1	6.0							
TACTICAL NAVIGATION (TN)															
TN	TN	AFT OBSERVER DAY	2201					2.0	D	A	1	365	1200		
	TN	AFT OBSERVER W/ NVD	2250		2250	2250		2.0	NS	A	1	365	1151,2201		2201,2150
TN SKILL TOTAL							2	4.0							
THREAT REACTION (TR)															
TR	TR	GROUND IR TR	2400		2400	2400		2.0	(N)	A	1	365	1103		
TR SKILL TOTAL							1	2.0							
2000 PHASE TOTAL							5	14.0							
3000 PHASE (MISSION)															
ASSAULT LANDING ZONE (ALZ)															
ALZ	ALZ	COMBAT OFFLOAD	3502		3502	3502		1.0	(N)	A	1	365	3512		3512
ALZ SKILL TOTAL							1	1.0							
ASSAULT TRANSPORT STAGE (AT)															
CAT	CAT	PAX AND BAGS	3510		3510	3510		3.0	(N)	A	1	365	1103		
	CAT	ROLLING STOCK	3511		3511	3511		3.0	(N)	A	1	365	1103		
	CAT	PALLETIZED	3512		3512	3512		3.0	(N)	A	1	365	1103		
	CAT	HAZMAT	3513		3513	3513		3.0	(N)	A	1	365	1103		
CAT SKILL TOTAL							4	12.0							

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)																
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
AIR-TO-AIR REFUELING															
AAR	AAR	FWAAR/TAAR OBSERVER	3600		3600	3600		2.0	D	A	1	365	1600		
	AAR	HAAR OBSERVER	3601		3601	3601		2.0	D	A	1	365	1601		
	AAR	AAR OBSERVER W/ NVD	3650		3650	3650		2.0	NS	A	1	365	3600 OR 3601		2150
AAR SKILL TOTAL							3	6.0							
AVIATION DELIVERED GROUND REFUELING (ADGR)															
ADGR	ADGR	RPO	3660		3660	3660		2.0	(N)	A	1	365	1103		
ADGR SKILL TOTAL							1	2.0							
AIR DELIVERY (AD)															
AD	AD	CDS	3703		3703	3703		4.0	(N)	A	1	365	1103		
	AD	SL PERSONNEL	3705		3705	3705		4.0	(N)	A	1	365	3510		3510
AD SKILL TOTAL							2	8.0							
3000 PHASE TOTAL							11	29.0							
4000 PHASE (CORE PLUS)															
DEFENSIVE TACTICS (DT)															
DT	DT	1 VS. 1	4410					1.0	D	A	1	*	1103		
	DT	1 VS. 2	4411					1.0	D	A	1	*	4410		4410
DT SKILL TOTAL							2	2.0							
4000 PHASE (MISSION PLUS)															
AIR DELIVERY (AD)															
AD	AD	COMBINATION AD	4700					4.0	(N)	A	1	*	[3705 OR 4701], [3703 OR 4703]		
	AD	MIL FREE FALL AD	4701		4701	4701		2.0	(N)	A	1	365	3510		3510
	AD	HE	4703		4703	4703		4.0	(N)	A	1	365	3512		3512
AD TOTAL							3	10.0							
BATTLEFIELD ILLUMINATION (BI)															
BI	BI	TEAM MEMBER	4710					3.0	(N)	A	1	*	1103,3512		
	BI	TEAM LEADER	4711		4711	4711		3.0	(N)	A	1	365	4710		4710
BI SKILL TOTAL							2	6.0							
HARVEST HAWK (HH)															
HH	HH	HH GROUND	4803						(N)	G	1	*	1103		
HH TOTAL							0	0.0							
CLOSE AIR SUPPORT (CAS)															
CAS	CAS	CAS	4830		4830	4830		2.5	(N)	A	1	730	4803		
CAS SKILL TOTAL							1	2.5							
4000 PHASE TOTAL							6	18.5							

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)															
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
5000 PHASE (INSTRUCTOR TRAINING)															
INSTRUCTOR UNDER TRAINING (IUT)															
IUT	IUT	IUT	5000						(N)	G	1	*		APRB recommendation	
	IUT	IUT	5100					3.0	(N)	A	1	*	5000		
	IUT	IUT	5101					3.0	(N)	A	1	*	5100		
IUT TOTAL							2	6.0							
MISSIONS INSTRUCTOR (MI)															
MI	MI	MISSIONS INSTRUCTOR	5102		5102			3.0	(N)	A	1	*	2162,2250,2400,3600,3601,3650, 5101	APRB recommendation	
MI SKILL TOTAL							1	3.0							
SYSTEMS INSTRUCTOR (SI)															
SI	SI	SYSTEMS INSTRUCTOR	5103		5103			3.0	(N)	A	1	*	6920,6921,6922,6923,6924,6928,6930,6932,6933,6934,5101, 6118	APRB recommendation	
SI TOTAL							1	3.0							
NATOPS INSTRUCTOR (NI)															
NI	NI	NI/ANI IUT	5140					2.0	(N)	A	1	*	5102,[6112,6113, OR 6118]	APRB recommendation	
	NI	CM NI/ANI	5141		5141	5141		2.0	(N)	A	1	365	5103,5140,5510,6118	APRB recommendation	
	NI	CMCC NI/ANI	5142		5142	5142		2.0	(N)	A	1	365	5103,5140,6112		
	NI	CMLM NI/ANI	5143		5143	5143		2.0	(N)	A	1	365	5140,5510,6113		
NI TOTAL							4	8.0							
NIGHT SYSTEMS INSTRUCTOR (NSI)															
NSI	NSI	NSI IUT	5150					2.0	NS	A	1	*	5102	APRB recommendation	2150
	NSI	NSI IUT	5151					2.0	NS	A	1	*	5150		2150
	NSI	NSI	5152		5152			2.0	NS	A	1	*	5151		2150
LATI TOTAL							3	6.0							
CARGO PASSENGER LOADING INSTRUCTOR (CPLI)															
CPLI	CPLI	CARGO PASSENGER LOADING INSTRUCTOR	5510		5510			3.0	(N)	A	1	*	3502,3510,3511,3512,3513,5101	APRB recommendation	
CPLI TOTAL							1	3.0							
AIR DELIVERY INSTRUCTOR (ADI)															
ADI	ADI	AIR DELIVERY INSTRUCTOR	5701		5701			3.0	(N)	A	1	*	3703,3705,4700,4701,4703,4711,5101	APRB recommendation	
ADI TOTAL							1	3.0							

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)																
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
5000 PHASE TOTAL							13	32.0							
6000 PHASE (REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (R,C,Q,D)															
FUCTIONAL CHECK FLIGHT (FCF)															
FCF	FCF	PARTIAL FCF	6104	6104					D	S/A	1	*	6112 OR 6118	APRB recommendation	
	FCF	PARTIAL FCF	6105	6105	6105	6105		2.0	D	A/S	1	365	6104		
	FCF	FULL FCF	6106	6106					D	S/A	1	*	6112 OR 6118	APRB recommendation	
	FCF	FULL FCF	6107	6107	6107	6107		4.0	D	A/S	1	365	6106		6105
FCF TOTAL							2	6.0							
NATOPS (NTPS)															
NTPS	NTPS	CM3	6110	6110	6110	6110		3.0	(N)	A	1	365	1000,1001,1103,1151,1200,1600,1601		
	NTPS	CM2	6111	6111	6111	6111		3.0	(N)	A	1	365	6110,6903,6919	APRB recommendation	
	NTPS	CMCC	6112		6112	6112		3.0	(N)	A	1	365			
	NTPS	CMLM	6113		6113	6113		3.0	(N)	A	1	365			
	NTPS	CM1	6118	6118	6118	6118		3.0	(N)	A	1	365	6111,6928,6930,6932,6933,6934	APRB recommendation	
	NTPS	QUARTERLY EP REVIEW	6120	6120	6120	6120			(N)	S/A	1	90			
NTPS TOTAL							5	15.0							
REFUELING SUPERVISOR (RS)															
RS	RS	ADGR RS	6660		6660	6660		3.0	(N)	A	1	365	3660	APRB recommendation	3660
RS TOTAL							1	3.0							
QUALITY ASSURANCE SAFETY OBSERVER (QASO)															
QASO	QASO	BI QASO	6710		6710	6710		3.0	(N)	A	1	365	4711	APRB recommendation	4711
QASO TOTAL							1	3.0							
FAMILIARIZATION (FAM)															
FAM	FAM	FS PREFLIGHT	6900	6900					(N)	S/G	1	*	2150,2250,3510,3511,3512,3513,6110		
	FAM	FS PREFLIGHT	6901	6901					(N)	S/G	1	*	6900		
	FAM	ACS DUTIES	6902	6902					(N)	S/A	1	*	6901		
	FAM	ACS DUTIES	6903	6903	6903			2.0	(N)	A/S	1	*	6902		
FAM TOTAL							1	2.0							
SYSTEMS (SYS)															
SYS	SYS	APU	6910	6910					(N)	G	1	*	6903		

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)															
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
	SYS	ENGINES	6911	6911					(N)	S/A	1	*	6910		
	SYS	PROPS	6912	6912					(N)	S/A	1	*	6911		
	SYS	FUEL	6913	6913					(N)	S/A	1	*	6912		
	SYS	ELECTRICAL	6914	6914					(N)	S/A	1	*	6913		
	SYS	HYDRAULICS	6915	6915					(N)	S/A	1	*	6914		
	SYS	BLEED AIR & ICE PROTECTION	6916	6916					(N)	S/A	1	*	6915		
	SYS	AC/PRESSURIZATION	6917	6917					(N)	S/A	1	*	6916		
	SYS	COMNAV	6918	6918					(N)	S/A	1	*	6917		
	SYS	EMERGENCY PROCEDURES	6919	6919	6919				(N)	S	1	*	6918		
SYS TOTAL							0	0.0							
AUGMENT CREW STATION (ACS)															
ACS	ACS	NTTP CHECKLIST	6920	6920	6920	6920			(N)	S/A	1	365	6903		
	ACS	LRN	6921	6921	6921	6921		6.0	(N)	A	1	365	2162,6903		2162
	ACS	TN/LAT	6922	6922	6922	6922			(N)	S/A	1	365	2250,6903		2201, 2250~NS
	ACS	TR	6923	6923	6923	6923			(N)	S/A	1	365	2400,6903		2400
	ACS	ALZ	6924	6924	6924	6924		2.0	(N)	A	1	730	6903		
	ACS	ARO PANEL AND SYS	6925	6925					(N)	G	1	*	6915		
	ACS	ARO PANEL AND SYS	6926	6926					D	S/A	1	*	3600,3601,3650,6925		
	ACS	ARO PANEL	6927	6927					(N)	S/A	1	*	6926		
	ACS	ARO PANEL	6928	6928	6928	6928		3.0	(N)	S/A	1	180	6919,6927		
ACS TOTAL							3	11.0							
PLANE CAPTAIN (PC)															
PC	PC	GSE REQUIREMENTS	6930	6930						G		*			
	PC	DAILY INSPECTION	6931	6931						G	1	*			
	PC	TURN AROUND INSPECTION	6932	6932	6932					G	1	*			
	PC	4790.2 PC REQUIREMENTS	6933	6933	6933					G		*	6111		
	PC	EXPEDITIONARY MAINTENANCE	6934	6934						G	1	*	6111		
PC TOTAL							0	0.0							
ENGINE RUN (ER)															
ER	ER	ENGINE RUN INTRO	6940	6940						S/G	1	*	6112 OR 6118	APRB recommendation	
	ER	ENGINE RUN	6941	6941						S/G	1	*	6940		

KC-130J CREWMASTER ATTAIN / MAINTAIN MATRIX (2000-6000 Phase)															
SKILL	PREFIX	T&R DESCRIPTION	BASIC POI	SERIES CONV POI	REFRESHER POI	MAINTAIN POI	FLIGHT #	FLIGHT TIME	CONDITION	TYPE	# AIRCRAFT or SIM	REFLY	PREREQUISITE	PREREQUISITE NOTES	CHAINING
		PRACTICE													
	ER	ENGINE RUN REVIEW	6942	6942						S/G	1	*	6941		
	ER	ENGINE PRAC APP	6943	6943	6943	6943				G/S	1	365	6942		
ER TOTAL							0	0.0							

3.23 SYLLABUS EVALUATION FORMS. All aircrew training forms are maintained by MAWTS-1 and can be located on the MAWTS-1 website. Common Access Card is required for access.

APPENDIX A

VMGR

Core

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-to-Air Refueling
MCT 1.3.4.2.1	Provide Aviation-Delivered Ground Refueling
MCT 4.3.4	Conduct Air Delivery

Core Plus

MCT 1.3.4.3	Provide Aviation Delivered Battlefield Illumination
MCT 3.2.3.1.1	Conduct Close Air Support
MCT 2.2.5.2.2	Conduct Multi-sensor Imagery Reconnaissance

MCT 1.3.3.3.2 Conduct Aviation Operations From Expeditionary Shore-Based Sites

Conditions:

C 2.5.4.1.3 Runway Length:
Long (> 8200 ft); Commercial (5000 to 8200 ft); Short (3500 to 5000 ft); Very short (< 3500 ft).

C 1.3.2.1 Light
Light available to illuminate objects from natural or manmade sources.
Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 1.3.1.3.1 Air Temperature
Atmospheric temperature at ground level (degrees Fahrenheit).
Descriptors: Hot (> 85 F); Temperate (40 to 85 F); Cold (10 to 39 F); Very cold (< 10 F).

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

C 2.5.4.1.4 Runway Weight Bearing Capacity
Descriptors: Low (KC–130).

Standards:
KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/4/2 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

  OR

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

Training
- 8/6/4/4/2 Crews ALZ Mission Skill proficient IAW T&R requirements

Output Standards
- 13/10/7/4/2 sorties daily sustained during contingency/combat operations

MCT 1.3.4.1 Conduct Combat Assault Transport

Conditions:

C 2.5.4.1.3 Runway Length:

Long (> 8200 ft); Commercial (5000 to 8200 ft); Short (3500 to 5000 ft); Very short (< 3500 ft).

C 1.3.2.1 Light

Light available to illuminate objects from natural or manmade sources.

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

C.1.3.2.3 Aviation Meteorological Conditions

Current weather/flight conditions affecting flight rules next 24 hours.

Descriptors: VMC (Conditions that permit flight using external cues and a distinguishable horizon.)

C 2.5.4.1.4 Runway Weight Bearing Capacity Low (C–130).

C 1.3.1.3.3 Surface Wind Velocity

The speed at which air moves through the atmosphere at an altitude up to 500 feet.

Descriptors: Light (< 7 mph); Moderate (7 to 24 mph); Strong (25 to 46 mph)

KTS -

C 1.1.1.2 Terrain Elevation

Height of immediate terrain in reference to sea level.

Descriptors: Very high (> 10,000 ft); High (6,000 to 10,000 ft); Moderately high (3,000 to 6,000 ft); Moderately low (1,000 to 3,000 ft); Low (500 to 1,000 ft); Very low (< 500 ft).

C 2.7.2 Air Superiority

The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:

KC-130J [15/12/9/6/3 aircraft]

Personnel

- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment

- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

  OR

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

Training

- 21/16/11/10/5 crews CAT Mission Skill proficient IAW T&R requirements

Output Standards

- 20/16/12/8/4 sorties daily sustained during contingency/combat operations

MCT 1.3.4.2 Conduct Air-to-Air Refueling

Conditions:

C 1.3.2.1 Light
Light available to illuminate objects from natural or manmade sources.
Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

  OR

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

Training
- 15/12/9/6/3 crews AAR Mission Skill proficient IAW T&R requirements

Output Standards
- 20/16/12/8/4 sorties daily sustained during contingency/combat operations

MCT 1.3.4.2.1 Provide Aviation-Delivered Ground Refueling

Conditions:

C 2.5.4.1.3 Runway Length:
Long (> 8200 ft); Commercial (5000 to 8200 ft); Short (3500 to 5000 ft)

C 1.3.2.1 Light
Light available to illuminate objects from natural or manmade sources.
Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

C 2.5.4.1.4 Runway Weight Bearing Capacity: Low (C–130).

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

  OR

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

Training
- 8/6/4/3/2 crews ADGR Mission Core Skill proficient IAW T&R requirements

Output Standards
- 8/6/4/3/2 crew that provide (2) refueling points

MCT 4.3.4 Conduct Air Delivery

Conditions:

C 1.3.2.1 Light
Light available to illuminate objects from natural or manmade sources.
Descriptors: Bright (sunny day); Day (overcast day); low (dusk, dawn, moonlit, streetlight lit); Negligible (overcast night)

C 1.3.1.3.3 Surface Wind Velocity
The speed at which air moves through the atmosphere at an altitude up to 500 feet.
Descriptors: Light (< 7 mph); Moderate (7 to 24 mph); Strong (25 to 46 mph)
KTS -

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

  OR

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

Training
- 5/4/3/2/1 crews AD Mission Skill proficient IAW T&R requirements

Output Standards
- 9/7/6/4/3 sorties daily sustained during contingency/combat operations

Core Plus

MCT 1.3.4.3 Provide Aviation-Delivered Battlefield Illumination

Conditions:

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

OR

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

Training
- 5/4/3/2/1 crews BI Core Plus proficient IAW T&R requirements

Output Standards
- 8/7/5/4/2 sorties daily sustained during contingency/combat operations

MCT 3.2.3.1.1 Conduct Close Air Support (CAS)

Conditions:

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

OR

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

Training
- 4/4/2/2/2 crews CAS Core Plus proficient IAW T&R requirements

Output Standards
- 3/3/2/2/1 sortie daily sustained during contingency/combat operations based on a six hour average sortie time

MCT 2.2.5.2.2 Conduct Multi-sensor Imagery Reconnaissance

Conditions:

C.1.3.1.3.11 Ceiling
Height of lowest cloud cover above sea level.
Descriptors: Medium (3,000 to 10,000 feet); High (>10,000 feet)

C 1.3.2 Visibility
Maximum distance to see an object given the moisture and particulate matter (dust, salt, ash) suspended in the atmosphere.
Descriptors: Moderate (1 to 3 NM); Good (3 to 10 NM); High (10 to 20 NM); Unlimited (>20 NM)

C 2.7.2 Air Superiority
The extent to which operations in the air, over sea and/or, over land can be conducted with acceptable losses due to hostile air forces and air defense systems action. Descriptors: Full (Air Supremacy); General; Local.

Standards:
KC-130J [KC-130J [15/12/9/6/3 aircraft]

Personnel
- 22/17/12/8/4 aircrews formed (KC-130J)
- 90% of squadron T/O personnel MOS qualified and deployable
    - And Level 2 (L2) IAW ALERTS.

Equipment
- 70% Full Mission Capable (FMC) aircraft of PAA
    - 10/8/6/4/2 aircraft (KC-130J)

OR

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

Training
- 4/4/2/2/2 crews CAS Core Plus proficient IAW T&R requirements

Output Standards
- 3/3/2/2/1 sortie daily sustained during contingency/combat operations based on a six hour average sortie time

APPENDIX B REFERENCE SOURCES

KC-130J ABBREVIATIONS	
ALZ	ASSAULT LANDING ZONE
TN	TACTICAL NAVIGATION
TR	THREAT REACTION
CAT	COMBAT ASSAULT SUPPORT
CPT	COCKPIT PROCEDURES TRAINING
LAT	LOW ALTITUDE TACTICS
LRN	LONG RANGE NAVIGATION
NS(H)	NIGHT SYSTEMS HIGH
AAR	AIR-TO-AIR REFUELING
ADGR	AVIATION-DELIVERED GROUND REFUELING
AD	AIR DELIVERY
DT	DEFENSIVE TACTICS
NS(L)	NIGHT SYSTEMS LOW
BI	BATTLEFIELD ILLUMINATION
CAS	CLOSE AIR SUPPORT
MIR	MULTI-SENSORY IMAGERY RECONNAISSANCE
BAS	BASIC AIR TO SURFACE
ANI	ASSISTANT NATOPS INSTRUCTOR
FRSI	FLEET REPLACEMENT SQUADRON INSTRUCTOR
NSI	NIGHT SYSTEMS INSTRUCTOR
LATI	LOW ALTITUDE TACTICS INSTRUCTOR
NSLATI	NIGHT SYSTEMS LOW ALTITUDE TACTICS INSTRUCTOR
DTI	DEFENSIVE TACTICS INSTRUCTOR
FLSE	FLIGHT LEADERSHIP STANDARDIZATION EVALUATOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
CPLI	CARGO PASSENGER LOADING INSTRUCTOR
MI	MISSION INSTRUCTOR
SI	SYSTEMS INSTRUCTOR
ADI	AIR DELIVERY INSTRUCTOR
HHI	HARVEST HAWK INSTRUCTOR
BIP	BASIC INSTRUCTOR PILOT
ALZI	ASSAULT LANDING ZONE INSTRUCTOR
PC	PLANE CAPTAIN
RPO	REFUELING POINT OPERATOR

EXTERNAL SYLLABUS SUPPORT
RANGE REQUIREMENTS

Category	Abbreviation	Name	Description	Notes
CAT I	MOA	Military Operating Area	Per Flight Information Publications	
CAT I	RSTD	Restricted/Warning Area	Per Flight Information Publications	
CAT I	MTR	Military Training Route	Per Flight Information Publications	
CAT I	LAT	LAT Course	Approved LAT course. Normally preferred over an MTR for dedicated LAT sorties.	
CAT I	AAR	Air-to-Air Refueling	Any airspace that can support AAR.	
CAT II	EW	Electronic Warfare	Threat Emitters providing a dynamic red/or gray force threat environment to enhance threat recognition, self-protection, and defense-suppression techniques.	
CAT II	Hi Fi EW	High Fidelity EW	Hi Fidelity (live) Emitters. Live actual SAM systems with operators. Can provide feedback via tape debrief.	Often a desired substitute for EW, may be cost prohibitive.
CAT II	URBN WPNS	Urban Weapons Impact Range	Urban CAS range capable of JCAS, LT INERT, and LSR.	
CAT II	URBN TRG	Urban Training	Urban area with overlying Restricted or MOA training airspace. Does not imply authorized weapons release or LASER use.	Example is a town, such as Yuma, under the Dome MOA.
CAT II	LSR	LASER Safe Range	Supports airborne LASER firing.	
CAT II	RLSR	Remote LASER Capable	A remote-operated ground LASER may designate a target.	Should be standard on a RKD RNG
CAT II	TGT	Target	Any point- target that is authorized for releasing INERT weapons on.	May include an unscored Raked Range
CAT II	IR TGT	IR-Significant Target	IR-Significant target.	
CAT III	HE	High Explosive Impact Area	Supports live HE ordnance. Implies EXP.	
CAT III	JCAS	JCAS TTPs	Supports all three types of CAS in the range. Allows JTAC personnel on range. Implies LSR and either INERT or HE.	
CAT III	AS MISSILE	A/S Missile Firing Range	Supports AS missile firing.	Hellfire/SOPGM
CAT III	EXP	Expendables Authorized	Supports use of Chaff & Flares.	
CAT IV	IMC	Instrumented Multi-Spectral Cues	Full size replicas of actual ADA and SAM systems, IR-significant and normally linked to LSTSS and NDBS/WISS.	
CAT IV	MOCK	Mock-Up Targets	Full size replicas of Mechanized or Threat vehicles. IR-significant desired. Weapons release not implied.	
CAT IV	GWVS	Ground Warfare Visual Simulator	Provides enhanced battlefield realism via simulation of muzzle flashes for ADA and launch of SAMs.	

Category	Abbreviation	Name	Description	Notes
CAT IV	SST	Smokey SAM Team	Smoke Rockets to simulate MANPADs or RF SAMs.	
CAT IV	TGT-DISP	Tactical Targets Dispersed	Full size actual or replicas of Mechanized or Threat vehicles. IR-significant desired. Implies INERT and LSR. WISS desired.	
CAT IV	TGT-MOVE	Tactical Targets Moving	Full size actual or replicas of Mechanized or Threat vehicles. IR-significant desired. Implies LT INERT and LSR. WISS & LSTSS desired.	
CAT IV	RECCE ARRAY	Actual Tactical Targets in an Array for PID	Full size actual Mechanized or Threat vehicles. Organized in an array in order to allow PID. Weapons release not implied.	
CAT IV	STRUCTR	Structures	May include a building, bunker, or revetment. IR-significant desired. Inert weapons release authorized. LSR capable. WISS desired.	