

(2) Review route planning and chart preparation procedures emphasizing threat assessment and avoidance, terrain masking, checkpoint selection, and airspace control measures.

(3) Conduct a route brief.

(4) Navigate along an approved LAT route consisting of a minimum of six (6) pre-selected checkpoints integrating all available navigation aids and maximizing use of terrain to degrade detection and enhance survivability.

(5) Discuss CRM considerations during operations at or near crew comfort level.

Performance Standard. Maintain awareness of aircraft position within route width/airspace during LAT maneuvering.

Prerequisite. TACNAV-221.

TACNAV-322

1.0 R 1 KC-130 A

Goal. Demonstrate skills required to plan, brief, and execute a tactical, low-level sortie in a LAT environment.

Requirement

(1) Perform TSO duties on a tactical, low-level sortie in the LAT environment.

(2) Demonstrate an understanding of route planning and chart preparation procedures emphasizing threat assessment and avoidance, terrain masking, checkpoint selection, and airspace control measures.

(3) Conduct a route brief.

(4) Navigate along an approved LAT route consisting of a minimum of six (6) pre-selected checkpoints integrating all available navigation aids and maximizing use of terrain to degrade detection and enhance survivability.

(5) Discuss CRM considerations during operations at or near crew comfort level.

Performance Standard. Maintain aircraft position within route width and arrive at a pre-selected checkpoint within +/- 30 seconds of a pre-determined TOT during LAT maneuvering.

Prerequisite. TACNAV-321.

TACNAV-324

2.0 R 1 KC-130 A NS

Goal. Introduce skills required to plan, brief, and execute a tactical, low-level sortie under LLL conditions.

Requirement

(1) Perform TSO duties on a tactical, low-level sortie under LLL conditions.

(2) Introduce the tactical advantages and administrative restrictions associated with LLL conditions.

(3) Review night route planning and chart preparation procedures emphasizing checkpoint selection, altitude planning, use of intermediate checkpoints, limiting features, prominent terrain features, and airspace control measures during night operations.

(4) Conduct a route brief.

(5) Navigate along a low-level route consisting of a minimum of six (6) pre-selected checkpoints integrating all available navigation aids.

(6) Discuss CRM considerations associated with tactical NS operations.

Performance Standard. Maintain aircraft position within route width and arrive at a pre-selected checkpoint within +/- 30 seconds of a pre-determined TOT.

Prerequisite. TACNAV-223.

3. Aerial Delivery

a. Purpose. To demonstrate a thorough understanding of advanced aerial delivery techniques.

b. General

(1) Instruction shall be conducted by a TSO NSI.

(2) The prerequisite code of 241 is required if cargo is to be dropped. The prerequisite code of 242 is required if personnel (static-line) are to be dropped. When conducting the 341 code, the code of the type of drop must be logged to ensure proficiency updating.

(3) Once complete with the 341 code, the TSO may conduct either type of drop on NVDs, provided they are proficient in that type of drop.

c. Ground Training. The TSO will review the KC-130 TACMAN for aerial delivery operations.

d. Flight Training (1 Flight, 1.5 Hours)

AD-341 1.5 R 1 KC-130 A NS

Goal. Refine air delivery techniques and navigation procedures to release points in connection with static-line personnel or cargo aerial delivery utilizing NVDs.

Requirement

(1) Perform TSO duties on a static-line personnel or cargo aerial delivery sortie on NVDs.

(2) Review route planning and chart preparation procedures emphasizing NS considerations to release point computation, aerial delivery limitations, drop zone criteria, aerial

delivery checklists and emergency procedures, slow-down procedures, and ingress/egress options.

(3) Plan a route to a drop zone and compute a CARP.

(4) Conduct an objective area brief to include planned release point, drop zone hazards and markings, IP inbound, slow-down, and egress.

(5) Navigate to a drop zone, relay all time warnings, call an aerial delivery, and navigate an egress route utilizing NVDs.

(6) Discuss CRM considerations during NS aerial delivery operations.

Performance Standard. Must compute and execute an aerial delivery that lands within drop zone safety criteria.

Prerequisite. AD-241/242 and RQD-600.

External Syllabus Support. Aerial Delivery Platoon or equivalent, material handling equipment and support personnel as required, a DZ team to include a corpsman, and a drop zone survey per MCO 3500.20. A PPN-19/SMP-2000 is recommended but not required.

4. RADAR Threat Reaction

a. Purpose. To train the TSO in the skills required to operate the KC-130 ASE suite in a tactical scenario in a RADAR threat environment.

b. General

(1) Aircraft should have a fully operational ASE suite.

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

(3) Initial events shall be flown in the day.

c. Ground Training. The TSO shall receive instruction on the RADAR threat, RADAR counter-tactics, chaff characteristics and effectiveness, and capabilities and limitations of the ALE-39/47 and APR-39.

d. Flight and Simulator Training (1 Flight, 2.0 Hours/1 Sim, 2.0 Hours)

THR-360 2.0 WST S

Goal. Introduce the planning considerations and in-flight operation of the ASE systems with emphasis on configuration of the system for operations in a RADAR threat environment.

Requirement

(1) Perform TSO duties associated with operation of the ASE suite in order to counter a RADAR threat.

(2) Plan and configure the ASE suite to counter a RADAR threat.

(3) Introduce the basic concepts of various chaff and flare load-out configurations, and capabilities and limitations of decoy chaff and flare. Refine programming and operation of the ALE-39/47 CMDS.

(4) Introduce APR-39 operation emphasizing Operational Flight Program (OFP), Emitter Identification Database (EID), and threat symbology.

(5) Discuss the AAR-47 capabilities and limitations as it applies to the RADAR threat.

(6) Discuss RADAR threat counter-tactics to include appropriate expendables and maneuvers for a specific threat.

(7) Discuss CRM considerations for operations in a threat environment.

(8) Deploy expendables in response to a RADAR threat indication.

(9) Conduct multiple passes against simulated RADAR threat systems and initiate appropriate maneuvers and countermeasures.

Performance Standard. Must correctly configure and operate the ASE suite, use appropriate terminology, and initiate correct defensive responses to threat indications.

Prerequisite. THRX-260.

THRX-361

2.0 R 1 KC-130 A (NS)

Goal. Refine the planning considerations and in-flight operation of the ASE systems with emphasis on configuration of the system for operations in a RADAR threat environment.

Requirement

(1) Perform TSO duties associated with the operation of the ASE suite in order to counter a RADAR threat.

(2) Plan and configure the ASE suite to counter a RADAR threat.

(3) Refine the understanding of the basic concepts of various chaff and flare load-out configurations, capabilities and limitations of decoy chaff and flare. Refine programming and operation of the ALE-39/47 CMDS.

(4) Introduce APR-39 operation emphasizing OFP, EID, and threat symbology.

(5) Discuss the AAR-47 capabilities and limitations as it applies to the RADAR threat.

(6) Discuss RADAR threat counter-tactics to include appropriate expendables and maneuvers for a specific threat.

(7) Discuss CRM considerations for operations in a threat environment.

(8) Deploy expendables in response to a RADAR threat indication.

(9) Conduct multiple passes against simulated RADAR threat systems and initiate appropriate maneuvers and countermeasures.

Performance Standard. Must correctly configure and operate the ASE suite, use appropriate terminology, and initiate correct defensive responses to threat indications.

Prerequisite. THRX-261.

Ordnance. 240 chaff.

External Syllabus Support. An operable EW range allowing chaff dispensing. An EW range with debrief facilities greatly enhance aircrew training and should be used to the maximum extent possible.

5. Expeditionary Airfield/Temporary Landing Zone (EAF)/(ALZ)

a. Purpose. To refine the skills necessary to plan and navigate to airfields emphasizing ingress/egress and approach profiles.

b. General. ALZ-370 shall be accomplished in day or night VMC conditions.

c. Ground Training. The TSO shall review the KC-130 TACMAN chapters concerning ALZ operations.

d. Flight Training (1 Flight, 1.5 Hours)

ALZ-370 1.5 R 1 KC-130 A (N)

Goal. To refine the skills necessary to plan and navigate to airfields emphasizing ingress/egress and approach profiles in a threat environment.

Requirement

(1) Demonstrate an understanding of the various ingress and approach options to an airfield in a threat environment including SCA, random high, random low/shallow, straight-in, teardrop, and abeam approaches.

(2) Demonstrate an understanding of SCA planning considerations associated with the various threat environments.

(3) Discuss the advantages and disadvantages of various egress profiles.

(4) Plan and execute multiple ingresses to an airfield to include: random high, random low/shallow, straight-in, teardrop, and abeam approaches; compute slowdown and descent points for the various approaches.

Prerequisite. ALZ-270, 271.

Performance Standard. For initial training, execute a random high, random low/shallow, straight-in, teardrop, and an abeam approach.

External Syllabus Support. MMT, STS, EAF and/or CFR as required.

334. CORE PLUS TRAINING

1. General

a. This phase of instruction trains to core plus skills to include: AAR, TACNAV, AD, and DEFTAC.

b. The TSO under instruction shall receive the MAWTS-1 course catalog ASP lecture prior to the appropriate stage of training.

c. All instructors must be proficient in the event to instruct.

d. To fly an event aided without an instructor, the TSO must be NSQ and proficient in the given event.

2. Air-to-Air Refueling

a. Purpose

(1) To develop the necessary skills to perform the tasks required of the lead TSO and rendezvous controller on a long-range air-to-air refueling mission.

(2) To designate the TSO as a "Rendezvous Controller" after successful completion of AR-411.

b. General

(1) Flights shall be conducted in conjunction with a movement of receiver aircraft in either a ferry, deep air strike profile (fixed wing), or long-range insert profile (rotary wing/tilt rotor) requiring a refueling area commander.

(2) The TSO shall have demonstrated an ability to plan and execute long-range air-to-air refueling missions including ALTRV or other airspace coordination measures.

c. Ground Training. The TSO should have completed the Central Altitude Reservation Indoctrination Course and shall receive instruction on Rendezvous Control Procedures prior to this stage.

d. Flight Training (2 Flights, 6.0 Hours)

AR-410 3.0 1 KC-130 A (N)

Goal. To refine the skills required to assist in planning and leading a long-range, air-to-air refueling mission.

Requirement

- (1) Assist the rendezvous controller in planning and coordinating a long-range, air-to-air refueling mission.
- (2) Introduce the planning and coordination associated with an ALTRV.
- (3) Demonstrate the ability to use an ALTRV.
- (4) Use appropriate navigation aids to arrive at an ARCP and maintain course on a refueling track.

Performance Standard. Direct aircraft to arrive at the ARCP and assist the rendezvous controller in conducting a successful rendezvous with receiver aircraft.

Prerequisite. AR-210, AR-213.

External Syllabus Support. Fixed wing or rotary wing receivers required.

AR-411

3.0 E R 1 KC-130 A (N)

Goal. To demonstrate the skills required to plan and execute a long-range, air-to-air refueling mission and prepare the TSO for rendezvous controller designation.

Requirement

- (1) Plan and conduct a long-range, air-to-air refueling mission to include receiver fuel requirements, tanker requirements, abort criteria, track location and administrative requirements.
- (2) Demonstrate a thorough understanding of ALTRV procedures to include message requirements, coordination, and filing procedures.
- (3) Conduct the planning and coordination of an ALTRV or other airspace required to facilitate the long-range movement of receiver aircraft.

Performance Standard. Conduct a successful long-range, air-to-air refueling mission.

Prerequisite. AR-410.

External Syllabus Support. Fixed wing or rotary wing receivers required.

3. Aerial Delivery

a. Purpose. To demonstrate a thorough understanding of advanced aerial delivery techniques in the night environment.

b. General. Instruction should be conducted by a WTI or ANI. For AD-442, a TSO NSI is required only if the initial sortie is conducted using NVDS and the TSO under instruction is not NSQ. A TSOI who is NSQ may instruct a

NSQ TSO on initial AD-442 event flown using NVDs. Any TSOI may instruct this event during the day or unaided.

c. Ground Training. The TSO will review the appropriate KC-130 TACMAN chapters for aerial delivery and battlefield illumination.

d. Flight Training (3 Flights, 3.0 Hours)

AD-441 1.0 1 KC-130 A (N)

Goal. Introduce air delivery techniques and theory in connection with a JPADS GPS guided cargo aerial delivery.

Requirement

- (1) Perform TSO duties on a JPADS GPS guided cargo aerial delivery sortie.
- (2) Review route planning and computer based programming procedures to determine release point computation, aerial delivery limitations, drop zone criteria, aerial delivery checklists and emergency procedures, slow-down procedures, and ingress/egress options.
- (3) Plan a route to a the optimum release point based upon computer software used to program the GPS guided hardware on the cargo.
- (4) Conduct an objective area brief to include: a planned release point, drop zone hazards, IP inbound, slow-down, and egress.
- (5) Navigate to a release point, relay all time warnings, call an aerial delivery, and navigate an egress route.
- (6) Discuss CRM considerations associated with GPS guided aerial delivery operations.

Performance Standard. Must compute and execute an aerial delivery that is released within safety criteria.

Prerequisite. AD-241.

External Syllabus Support. Aerial Delivery Platoon or equivalent, material handling equipment and support personnel as required, a DZ team to include a corpsman, and a drop zone survey per MCO 3500.20.

AD-442 1.0 R 1 KC-130 A (N)

Goal. Conduct aerial delivery of personnel/cargo utilizing high altitude release techniques with emphasis on HARP computations and navigation to release points.

Requirement

- (1) Perform TSO duties on a high altitude aerial delivery sortie.

(2) Review route planning and chart preparation procedures emphasizing high altitude release point computation, aerial delivery limitations, drop zone criteria, aerial delivery checklists, emergency procedures, slow-down procedures, and ingress/egress options.

(3) Plan a route to a drop zone and compute a high altitude aerial delivery of personnel or cargo.

(4) Conduct an objective area brief to include planned release point, drop zone hazards, IP inbound, slow-down, and egress.

(5) Navigate to a release point, relay all time warnings, call a high altitude aerial delivery of personnel or cargo, and navigate an egress route.

(6) Discuss CRM considerations during aerial delivery operations.

(7) Discuss physiology considerations appropriate to high altitude aerial delivery operations.

Performance Standard. Compute and execute a high altitude aerial delivery that lands within drop zone safety criteria.

Prerequisite. AD-242.

External Syllabus Support. High altitude certified personnel or cargo, a DZ team to include a corpsman, an aviation physiologist (if required), and a drop zone survey per MCO 3500.20. A PPN-19/SMP-2000 is recommended but not required.

AD-444

1.0 R 1 KC-130 A N

Goal. Instruct the TSO in the skills necessary to perform battlefield illumination.

Requirement

(1) Perform TSO duties on a battlefield illumination sortie.

(2) Review route planning and chart preparation procedures emphasizing release point computation, APF delivery characteristics, orbit and delivery patterns, battlefield illumination checklists, emergency procedures, slow-down procedures, and ingress/egress options.

(3) Direct the aircraft to a target area and compute an APF CARP.

(4) Conduct an objective area brief to include planned release point, illumination patterns, slow-down, and egress.

(5) Navigate to a release point, relay all time warnings, call a release of APFs, and navigate an egress route.

(6) Discuss CRM considerations during battlefield illumination operations.

Performance Standard. For initial sortie conduct at least 1 area illumination pattern and 1 point target illumination pattern utilizing a standoff orbit, providing the desired illumination effect on the target.

Prerequisite. FAM-201.

Ordnance. 20 LUU-2/19 APF.

External Syllabus Support. SUAS permitting deployment of APFs.

5. Defensive Tactics (DEFTAC)

a. Purpose. To introduce the TSO to DEFTAC.

b. General

- (1) Emphasize DEFTAC maneuvering and CRM considerations during DEFTAC.
- (2) A Pilot DEFTACI or TSOI may instruct this event.
- (3) The aircraft should have an operable ASE suite.

c. Ground Training. Prior to this flight phase the TSO shall review the appropriate KC-130 TACMAN chapters on DEFTAC.

d. Flight Training (1 Flight, 1.5 Hours)

DEFTAC-462 1.0 R 1 KC-130 A

Goal. Familiarize the TSO with the skills and crew coordination required while executing DEFTAC against aggressor aircraft.

Requirement

- (1) Demonstrate an understanding of KC-130 defensive maneuvers.
- (2) Demonstrate an understanding of air-to-air threat.
- (3) During DEFTAC, demonstrate the proper maneuver calls and crew coordination.
- (4) Discuss the use of the ASE suite to counter an air-to-air threat.

Performance Standard. Demonstrate proper crew coordination during DEFTAC.

Prerequisite. TACNAV-322.

External Syllabus Support. Rear Vision Device (RVD) and aggressor aircraft required.

335. INSTRUCTOR TRAINING

1. General. The TSO IUT shall receive the MAWTS-1 ASP Courseware on Student Briefing and Critique, and Student/Instructor Roles prior to beginning this stage of training.

2. TSO Instructor (TSOI)

a. Purpose. To standardize TSOI procedures.

b. General

(1) Emphasize standardization and the ability to instruct TSO procedures.

(2) Ability to instruct all phases of flight training shall be evaluated in which the TSO has previously demonstrated proficiency.

(3) A TSO Assistant NATOPS Instructor shall evaluate these flights.

c. Flight Training (4 Flights, 12.0 Hours)

TSOIUT-500 3.0 E 1 KC-130 A (N)

Goal. Evaluate and standardize the TSO's instructional techniques on an LRNAV event.

Requirement. Instruct a TSO on LRNAV-250.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

Prerequisite. LR-250 and the squadron's recommendation for TSOI designation.

TSOIUT-501 3.0 E 1 KC-130 A (N)

Goal. Evaluate and standardize instructional techniques on an AR event.

Requirement. Instruct a TSO on an AR event.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

Prerequisite. AR-210, 213. Proficiency in appropriate event and the squadron's recommendation for TSOI designation.

External Syllabus Support. Fixed wing, rotary wing, or tilt-rotor receivers required.

TSOIUT-502 3.0 E 1 KC-130 A (N)

Goal. Evaluate and standardize instructional techniques on a TACNAV, AD, THRX, or ALZ event.

Requirement. Instruct a TSO on a TACNAV, AD, THRX, or ALZ event.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

Prerequisite. Proficiency in appropriate event and the squadron's recommendation for TSOI designation.

Ordnance. As required.

External Syllabus Support. As required.

3. TSO Night Systems Instructor (NSI)

a. Purpose. To qualify the TSO as an NSI.

b. General. A MAWTS-1 instructor shall provide certification for this qualification. Refer to MAWTS-1 Course Catalogue.

c. Ground Training. The TSO shall review instructions from the MAWTS-1 ASP on Night Vision Device Usage.

d. Flight Training (4 Flights, 6.0 Hours)

NSIUT-510 1.5 E 1 KC-130 A NS

Goal. Evaluate and standardize the NSIUT's instructional techniques on an NS FAM event.

Requirement. Instruct a TSO on an NS FAM event.

Prerequisite. RQD-600, proficiency in the appropriate event, and squadron recommendation for NSI designation.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

NSIUT-511 1.5 E 1 KC-130 A NS

Goal. Evaluate and standardize NSIUT instructional techniques on a NS low-level event.

Requirement. Instruct a TSO on a NS low-level event.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

Prerequisite. TSO NSI-510, TACNAV-324.

NSIUT-512 1.5 E 1 KC-130 A NS

Goal. Evaluate and standardize NSIUT instructional techniques on an NS AD event.

Requirement. Instruct a TSO on an NS AD event.

Performance Standard. Effectively instruct the skills necessary to complete the appropriate event.

Prerequisite. TSO NSI-510.

External Syllabus Support. As required.

350. REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS (RQD)

1. Instructor Qualifications

RQD-600

TRACKING CODE

Goal. Tracking Code for TSO NS qualification.

Prerequisite. NSFAM-204,205.

RQD-601

3.0

1 KC-130 A (N)

Goal. Certification event for designation as a TSOI.

Requirement. Demonstrate the ability to instruct TSOs on standardized procedures. Completion of RQD-601 meets the requirements for the TSO to be qualified as an instructor. At the discretion of the squadron commanding officer, a letter assigning the TSO as an instructor shall be placed in the NATOPS jacket and APR. The tracking code of RQD-601 shall be logged.

Performance Standard. Instruct the skills necessary to complete the appropriate event.

Prerequisite. TSO IUT-500, 501, 502, and proficiency in the appropriate event.

Ordinance. As required.

External Syllabus Support. As required.

RQD-602

1.5

E 1 KC-130 A NS

Goal. Certification event for designation as a TSO NSI.

Requirement. Demonstrate the ability to instruct TSOs on standardized procedures during an NS event. Completion of RQD-602 meets the requirements for the TSO to be qualified as a NS instructor. At the discretion of the squadron commanding officer, a letter assigning the TSO as an NSI shall be placed in the NATOPS jacket and APR. The tracking code of RQD-602 shall be logged.

Performance Standard. Instruct the skills necessary to complete the appropriate event.

Prerequisite. TSO IUT-510, 511, and 512.

Ordinance. As required.

External Syllabus Support. As required.

2. Rendezvous Controller

RQD-610

Goal. Tracking code for rendezvous controller.

Requirement. Completion of AR-411 meets the requirements for the TSO to be designated a rendezvous controller. At the discretion of the squadron commanding officer, a letter

assigning the TSO as a rendezvous controller shall be placed in the NATOPS jacket and APR. The tracking code of RQD-610 shall be logged.

Prerequisite. AR-410, 411.

3. TSO Annual Re-qualification

- a. Purpose. To conduct annual NATOPS re-qualification.
- b. General. A NATOPS/Assistant NATOPS Instructor shall evaluate this flight.
- c. Ground Training. Pass the open and closed book examinations per NATOPS prior to the flight.
- d. Flight Training (1 Flight, 2.0 Hours)

RQD-690 2.0 R E 1 KC-130 A (N)

Goal. Annual NATOPS re-qualification check.

Requirement. The TSO will be tested on all previous instruction, knowledge of emergency procedures, and proper operation of all navigation equipment.

Performance Standards. The TSO will perform all duties, emergency procedures, and properly operate all navigation equipment per NATOPS, OPNAVINST 3710.7, all applicable orders and directives, and squadron and TSO SOPs. Completion of RQD-690 meets the requirements for the TSO to be re-qualified as a TSO. At the discretion of the squadron commanding officer, a letter re-designating the TSO shall be placed in the NATOPS jacket and APR. The tracking code of RQD-690 shall be logged.

Prerequisite. FAM-201. Proficiency in appropriate event for which the TSO is being evaluated.

Ordinance. As required.

External Syllabus Support. As required.

4. Weapons Tactics Instructor (WTI)

- a. Purpose. To certify the TSOI as a WTI capable of conducting ground and airborne instruction in the TSO Core Skill Advanced and Core Plus flight syllabi as outlined in this Manual.
- b. General. The KC-130 WTI Course is developed by MAWTS-1 and is conducted in conjunction with the WTI Course. Upon graduation the candidate will be certified by MAWTS-1 as a WTI TSO. WTI designation may be made by the squadron commanding officer.
- c. Ground Training. Receive all instruction per the MAWTS-1 Course Of Instruction.
- d. Flight Training. All flights conducted per MAWTS-1 Course Of Instruction.

RQD-691 Per MAWTS-1 Course Catalog

Goal. Develop WTIs for the squadron.

Requirement. Use standard WTI instruction techniques as taught at the MAWTS-1 WTI course. Completion of WTI Course meets the requirements for the TSO to be designated as a WTI. At the discretion of the squadron commanding officer, a letter assigning the TSO as a WTI shall be placed in the NATOPS jacket and APR. The tracking code of RQD-691 shall be logged.

Performance Standard. Per MAWTS-1 WTI Course Of Instruction.

Prerequisite. Per MAWTS-1 WTI Planning Guide.

Ordinance. As required.

External Syllabus Support. As required.

5. NATOPS Instructor Check (NTPSI)

a. Purpose. To standardize NTPSI procedures.

b. General

(1) Emphasize standardization of instruction procedures.

(2) An assistant NATOPS evaluator will be evaluated by the senior squadron NATOPS evaluator.

(3) The senior NATOPS evaluator will be evaluated by the group NATOPS evaluator.

c. Flight Training (1 Flight, 3.0 Hours)

RQD-692 3.0 R E 1 KC-130 A (N)

Goal. Standardize NTPSI procedures.

Requirement. Evaluate an assistant NATOPS instructor using standardized procedures.

Performance Standard. Per NATOPS and all current flight publications. Completion of RQD-692 meets the requirements for the TSO to be designated a NATOPS Instructor. At the discretion of the squadron commanding officer, a letter assigning the TSO as an NI shall be placed in the NATOPS jacket and APR. The tracking code of RQD-692 shall be logged.

Prerequisite. RQD-601.

Ordinance. As required.

External Syllabus Support. As required.

360. EXPENDABLE ORDNANCE REQUIREMENTS

<u>ORDNANCE</u>	<u>100 Series</u>	<u>200 Series</u>	<u>300 Series</u>	<u>400 Series</u>	<u>Refresher</u>	<u>ANNUAL</u>
DECOY FLARES		300	60			360
CHAFF			240			240
LUU-2/19				20		10

361. SYLLABUS MATRIX

KC-130 FRG TSD													
200 SERIES CORE SKILL BASIC													
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI EVALUATION	CRP	CHAINING	EVENT CONVERSION
FAM													
FAM	201	FAM	4.0		365	A	1	(N)		R	1.0		201
			4.0								1.0		
NIGHT SYSTEMS													
NSFAM	204	HLL NSFAM	3.0		365	A	1	NS	201	R	1.0	201	204
NSFAM	205	LLL NSFAM	3.0		365	A	1	NS	204	R	1.0	201, 204	205
			6.0								2.0		
AERIAL REFLIGHTING													
AR	210	FWAR	2.0		365	A	1	(N)	201	R	1.5	201, (204 HLL), (205 LLL)	210
AR	212	RWAR	2.0		365	A	1	D	201		1.5	201	212
AR	213	NSRWAR	2.0		365	A	1	(N)	212	R	1.5	201, 212, (204 HLL), (205 LLL)	213
			6.0								4.5		
TACTICAL NAVIGATION													
TACNAV	220	DTACNAV		2.0	*	S		D	201		0.0		220
TACNAV	221	DTACNAV		2.0		365	A	1	D		1.0	201	221
TACNAV	222	NSTACNAV		2.0	*	S		NS	204, 220		0.0		222
TACNAV	223	HLL NSLL		2.0		180	A	1	NS		1.0	221, 204, 201	223
			4.0	4.0							2.0		
AERIAL DELIVERY													
AD	240	SIM AD		1.5	*	S		D	201		0.0		240
AD	241	CARGO AD		1.5		365	A	1	(NS)		1.0	201, 242, (204 HLL), (205 LLL)	241
AD	242	SL AD		1.5		365	A	1	(NS)		1.0	201, 241, (204 HLL), (205 LLL)	242
			3.0	1.5							2.0		
LONG RANGE NAVIGATION													
LRNAV	250	LR NAV		5.0		720	A	1	(N)	201	R	0.5	201, (204 HLL), (205 LLL)
				5.0							0.5		250
IR THREAT REACTION													
THR	260	IR THR		2.0	*	S		D	220, 201		0.0		260
THR	261	IR THR		2.0		365	A	1	(N)		1.5	201, (204 HLL), (205 LLL)	261
			2.0	2.0							1.5		
EAP/ALZ OPERATIONS													
ALZ	270	SCA		1.5	*	S		D	220, 201		0.0		270
ALZ	271	SCA		1.5		365	A	1	(N)		1.5	201, (204 HLL), (205 LLL)	261
			1.5	1.5							1.5		
TOTAL FLIGHT/SIM HOURS FOR PHASE			31.5	9.0					TOTAL CRP FOR PHASE		15.0		

300 SERIES CORE SKILLS ADVANCED														
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	FOI	EVALUATION	CRP	CHAINING	EVENT CONVERSION
TACTICAL NAVIGATION														
TACNAV	321	LAT INTRO	1.0		*	A	1	D	221			3.0	221, 201	321
TACNAV	322	LAT QUAL	1.0		365	A	1	D	321	R		3.0	221, 201	322
TACNAV	324	LLL NSLL	2.0		180	A	1	NS	223	R		3.0	223, 221, 205, 201	222
			4.0									9.0		
AERIAL DELIVERY														
AD	341	NS AD	1.5		270	A	1	NS	241/242, 600	R		3.0	201, (204 HLL), (205 LLL), 241, 242	341
			1.5									3.0		
RADAR THREAT REACTION														
THR	360	RDR THRX		2.0	*	S		D	260			0.0		360
THR	361	RDR THRX		2.0		A	1	(NS)	261	R		4.0	201, (204 HLL), (205 LLL)	361
			2.0	2.0								4.0		
RAF/ALZ OPERATIONS														
ALZ	370	TAC ARR	1.5		365	A	1	(N)	271, 270	R		4.0	271, 201, (204 HLL), (205 LLL)	370
			1.5									4.0		
			9.0	2.0								20.0		

400 SERIES CORE SKILLS														
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	FOI	EVALUATION	CRP	CHAINING	EVENT CONVERSION
AERIAL DELIVERY														
AR	410	LRAR LD	3.0		1095	A	1	(N)	210, 213			0.8	201, (204 HLL), (205 LLL)	410
AR	411	RNDV CNT	3.0		1095	A	1	(N)	410	R	E	0.9	201, (204 HLL), (205 LLL), 410	411
			6.0									1.7		
AERIAL DELIVERY														
AD	441	JPADS AD	1.0		730	A	1	(N)	241			0.8		441
AD	442	HIGH AD	1.0		365	A	1	(N)	242	R		0.8	201, (204 HLL), (205 LLL)	442
AD	444	BI	1.0		730	A	1	N	201	R		0.8	201, (204 HLL), (205 LLL)	444
			3.0									2.4		
DEFENSE TACTICS														
DEFTAC	462	DEFTAC	1.0		730	A	1	D	322	R		0.9	201	462
			1.0									0.9		
TOTAL FLIGHT/SIM HOURS FOR PHASE			10.0									5.0		

KC-130 FRT TSO														
500 SERIES INSTRUCTOR TRAINING														
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVALUATION	CRP	CHAINING	EVENT CONVERSION
TSOIUT	500	LRNAV IUT	3.0		*	A	1	(N)	250		E	0.0	201, (204 HLL), (205 LLL)	500
TSOIUT	501	AR IUT	3.0		*	A	1	(N)	210, 213		E	0.0	201, (204 HLL), (205 LLL)	501
TSOIUT	502	TAC IUT	3.0		*	A	1	(N)	PROFICIENCY IN APPROPRIATE EVENT		E	0.0	201, (204 HLL), (205 LLL)	502
			9.0										0.0	
NIGHT SYSTEMS INSTRUCTOR														
NSIUT	510	NS FAM IUT	1.5		*	A	1	NS	600, 601		E	0.0	201, (204 HLL), (205 LLL)	510
NSIUT	511	NS LL	1.5		*	A	1	NS	510, 324		E	0.0	201, (204 HLL), (205 LLL)	511
NSIUT	512	NS AD	1.5		*	A	1	NS	510, 341		E	0.0	201, (204 HLL), (205 LLL)	512
			4.5										0.0	
TOTAL FLIGHT/SIM HOURS FOR PHASE			13.5	TOTAL CRP FOR PHASE									0.0	

KC-130 FRT TSO														
600 SERIES REQUIREMENTS, QUALIFICATIONS, DESIGNATIONS														
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVALUATION	CRP	CHAINING	EVENT CONVERSION
RQD	600	NSQ							TRK CODE, 205, 204	R				600
TSO INSTRUCTOR														
RQD	601	TSO INST	3.0		*	A	1	(N)	500, 501, 502		E	0.0	201	601
NIGHT SYSTEMS INSTRUCTOR														
RQD	602	NS INST	1.5		*	A	1	NS	510, 511, 512		E	0.0	201, (204 HLL), (205 LLL)	602
RENDERVOUS CONTROLLER														
RQD	610	RNDV CNT							TRK CODE FOR RNDV CNT PER AR-411, PREREQ 410, 411					610
TSO NATOPS EVALUATION														
RQD	690	NATOPS	2.0		365	A	1	(N)	201	R	E	0.0	201	690
WEAPONS AND TACTICS INSTRUCTOR														
RQD	691	WTI							PER MAWTS-1 COURSE CATALOG					
TSO NATOPS EVALUATION														
RQD	692	NATOPS I	3.0		365	A	1	(N)	601	R	E	0.0	201	692
TOTAL FLIGHT/SIM HOURS FOR PHASE			11.0	TOTAL CRP FOR PHASE									0.0	

CHAPTER 4
KC-130FRT LOADMASTER

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*** * Note * ***

Crew Resource Management Shall Be Briefed Before All Flights And/Or Events.

CHAPTER 4

KC-130FRT LOADMASTER

400. MARINE AERIAL REFUELING SQUADRON (KC-130FRT) UNIT CORE COMPETENCY

1. Background. Marine Aviation plays a crucial role in the MAGTF's ability to conduct Maneuver Warfare. The ultimate goal of Marine Aviation is to attain the highest possible combat readiness to support Expeditionary Maneuver Warfare while at the same time preserving and conserving our Marines and equipment. Embedded within our combat readiness is the ability to rapidly, effectively, and efficiently deploy on short notice and the ability to quickly and effectively plan for crises and/or contingency operations thereby ensuring Marine Aviation remains ready for combat when and where the need arises. The KC-130FRT T&R Manual represents the collaborative effort of KC-130FRT Subject Matter Experts who designed training standards to maximize the full combat capabilities of the KC-130FRT and its crew. These standards, intrinsic in the core competency section, describe and define unit capabilities and requirements necessary to maintain like-squadron proficiency in core skills and combat leadership. Training events are based on specific requirements and performance standards to ensure aircrew maintain a common base of training and depth of combat capabilities. Together, the T&R comprises a building block approach to ensure that trained aircrews remain ready, relevant, and fully capable of supporting the MAGTF commander.

2. VMGR Mission. Support the MAGTF Commander by providing aerial refueling and assault support, day or night under all weather conditions during expeditionary, joint, or combined operations.

3. Mission Essential Task List (METL)

- a. (UJTL TA 1.1.1) Conduct Tactical Airlift
 - Conduct assault support transport.
- b. (UJTL TA 1.1.4) Conduct Sea and Air Deployment Operations
 - Maintain the capability to deploy and operate from advanced bases, expeditionary airfields and forward operating bases.
 - Perform organizational maintenance on assigned aircraft.
- c. (UJTL TA 1.2.2) Conduct Airborne Operations
 - Provide air delivered assault support transport of combat troops, equipment and supplies.
 - Provide support for casualty evacuation operations.
 - Maintain self-defense capability from ground-to-air and air-to-air threats.
- d. (UJTL TA 4.2) Distribute Supplies and Provide Transport Services
 - Conduct aerial re-supply.
 - Provide support for mobile Forward Arming and Refueling Points (FARPS).
 - Provide support for Rapid Ground Refueling (RGR) of aircraft and vehicles.
- e. (UJTL TA 4.2.3) Conduct Air Refueling
 - Provide Tactical and Long Range Aerial Refueling.

- f. (UJTL TA 5) Exercise Command and Control
 - Provide Airborne Platform for the Airborne DASC Command Post.
- g. (UJTL TA 6.2) Conduct Joint Personnel Recovery
 - Conduct Tactical Recovery of Aircraft and Personnel (TRAP) operations.
 - Augment local Search and Rescue (SAR) assets.
- h. (UJTL TA 6.4) Conduct Noncombatant Evacuation
 - Provide support for evacuation operations.

4. Table of Organization. Refer to Table of Organization 8820 and 8821 managed by Total Force Structure, MCCDC, for current authorized organizational structure and personnel strength for KC-130FRT units. As of this publication date, KC-130F/R/T units are authorized:

Squadron
12 Aircraft
42 Pilots [26 TPC/16 CP (T2P or T3P)]
23 TSOs
25 Flight Engineers
24 Loadmasters
24 Flight Mechanics

Detachment
6 Aircraft
19 Pilots [11 TPC/8 CP (T2P or T3P)]
11 TSOs
12 Flight Engineers
12 Loadmasters
12 Flight Mechanics

5. Core Capability. A core capable squadron is able to sustain 9 sorties on a daily basis during contingency/combat operations. The above sortie rates are based on 3.0 hour average sortie duration and assumes \geq 70 percent FMC aircraft and \geq 90 percent T/O aircrew on hand. If unit FMC aircraft $<$ 70 percent or T/O aircrew $<$ 90 percent, core capability will be degraded by a like percentage. A core capable squadron is able to accomplish all tasks designated in the unit METL from a main or expeditionary base.

6. METL/Core Skill Matrix. KC-130FRT core skills directly support the METL as follows:

KC-130FRT CORE SKILLS													
METL	FAI	NSQ	AR	TACNAV	FORM	MULTI PLANE AR	AD	LRNAV	THR (I)	THR (R)	ALZ	CPL	RGR
A. Conduct Tactical Airlift	X	X		X	X			X	X	X	X	X	
B. Conduct Sea and Air Deployment Operations	X	X			X			X	X	X	X	X	
C. Conduct Airborne Operations	X	X		X	X		X	X	X	X		X	
D. Distribute Supplies and Provide Transport Services	X	X		X			X	X	X	X	X	X	X
E. Conduct Air Refueling	X	X	X	X	X	X		X	X	X			
F. Exercise Command and Control	X	X						X	X	X		X	
G. Conduct Joint Personnel Recovery	X	X	X	X	X	X	X	X	X	X	X	X	X
H. Conduct Noncombatant Evacuation	X	X	X	X	X	X		X	X	X	X	X	X

KC-130FRT CORE BMS SKILLS					
METL	TACNAV	FORM	AD	DEFTAC	AR
A. Conduct Tactical Airlift	X	X		X	
B. Conduct Sea and Air Deployment Operations		X		X	X
C. Conduct Airborne Operations	X	X	X	X	
D. Distribute Supplies and Provide Transport Services	X		X	X	X
E. Conduct Air Refueling	X	X		X	X
F. Exercise Command and Control				X	
G. Conduct Joint Personnel Recovery	X	X	X	X	X
H. Conduct Noncombatant Evacuation	X	X		X	X

7. KC-130FRT Core Model Minimum Requirements (CMMR). Squadron core competency reflects the minimum level of competency a squadron must achieve to perform its core capability. Squadron core competency is measured in terms of minimum Core Skill Proficiency (CSP) and minimum numbers of flight leaders per paragraphs a and b below:

a. Minimum Unit CSP Requirements. As a minimum, in order to be considered Core Competent, a unit must possess the following numbers of crews who are proficient in each core skill (Unit CSP). In order to be considered proficient in a core skill (individual CSP), a crewmember must attain and maintain proficiency in core skill events, as delineated in paragraphs (1) and (2) below.

KC-130FRT CSP Requirements							
Unit							
CORE SKILL CORE PLUS	Pilot	Copilot	TSO	FE	LM	FM	Crews
FAI	14	14	14	14	14	14	14
NS	9	9	9	9	9	9	9
AR	14	14	14	14	14	14	14
TACNAV	9	9	9	9	9	9	9
FORM	8	8		8			8
MULTI-PLANE AR	4	4					4
AD	4	4	4	4	8	4	4
LRNAV	12	12	12	12	12	12	12
THR(X)(I)	6	6	6	6	6	6	6
THR(X)(R)	4	4	4	4			4
ALZ	9	9	9	9	9	9	9
CPL					18		18
RGR				8	8	8	8
TACNAV	2	2					2
FORM	2	2					2
AD	4	4	4	4	8	4	4
DEFTAC	2	2	2	2	2	2	2
AR	2		2				2

KC-130FRT CSP Requirements 6 Plane Detachment							
CORE SKILL CORE PLUS	Pilot	Copilot	TSO	FE	LM	FM	Crews
FAI	7	7	7	7	7	7	7
NS	5	5	5	5	5	5	5
AR	7	7	7	7	7	7	7
TACNAV	5	5	5	5	5	5	5
FORM	4	4		4			4
MULTI-PLANE AR	2	2					2
AD	2	2	2	2	4	2	2
LRNAV	6	6	6	6	6	6	6
THR(X)(I)	3	3	3	3	3	3	3
THR(X)(R)	2	2	2	2			2
ALZ	5	5	5	5	5	5	5
CPL					9		9
RGR				4	4	4	4
TACNAV	2	2					2
FORM	2	2					2
AD	2	2	2	2	4	2	2
DEFTAC	1	1	1	1	1	1	1
AR	2		2				2

(1) Events Required to Attain Individual CSP. To initially attain CSP, a crewmember must successfully complete all of the T&R events listed in the chart below for that core skill:

KC-130FRT LOADMASTER Core Skills	NS	RW/FW AR	CPL	TAC NAV	AD	LONG RANGE NAV	THR(X) (I)	ALZ	RGR
Events required to Attain CSP	204R	210 211 213R	215R 216R 217R	220 223R 322R	241R 340R	250R	261R	271R 370R	273 274R

KC-130FRT LOADMASTER Core Skills	AD	DEFTAC
Events required to Attain Core Proficiency	441R 442R 443R 444R	462R

(2) Events Required to Maintain Individual CSP. To maintain CSP, a crewmember must maintain proficiency in all of the T&R events listed in the chart below for that core skill.

KC-130FRT LOADMASTER Core Skills	NS	RW/FW AR	CPL	TAC NAV	AD	LONG RANGE NAV	THR(X) (I)	ALZ	RGR
Events required to Maintain CSP	204R	213R	215R 216R 217R	223R 322R	241R 340R	250R	261R	271R 370R	274R

KC-130ERT LOADMASTER Core Skills	AD	DEFTAC
Events Required to Maintain Core Proficiency	441R 442R 443R 444R	462R

8. Qualifications And Designations Table. The table below delineates T&R events required to be completed to attain initial qualifications, re-qualifications, and designations. All stage lectures, briefs, squadron training and prerequisites shall be complete prior to completing final events. Qualification and designation require letters signed by the commanding officer. Qualification and designation letters shall be placed in individual NATOPS and APR/MPR jackets. Loss of proficiency in all qualification events of a core skill causes the associated qualification to be lost. Regaining a qualification requires completing all R coded syllabus events associated with that qualification.

Qualification (TRACKING CODE)	Initial Event Qualification Requirements.
NSQ (604)	204
NATOPS (690)	IAW OPNAV 3710.7 and Core Skill Introduction complete. Qualification letter signed by the commanding officer.

Designation (TRACKING CODE)	Designation Requirements.
RS (601)	273, 274
QASO (602)	444
T&R I (605)	IUT 502 and a designation letter signed by the commanding officer.
NTPSI (606)	Designation letter signed by the commanding officer.
NSI (607)	See MAWTS-1 Course Catalog
WTI (608)	See MAWTS-1 Course Catalog
CSII (609)	TRI 605 and a designation letter signed by the commanding officer.

9. Instructor Requirements. A squadron should possess the following numbers of aircrew with the listed instructor designations per the KC-130 T&R and MCO 3500.12C (WTTP).

INSTRUCTOR DESIGNATION	KC-130 Squadron			
	Pilots	TSOs	Flight Engineers	Loadmasters
LATI	4			
ANI	6	4	6	4
WTI	2	2	2	2
DEFTACI	1			
NSI	3	3	3	3
T&RI	10	6	10	8
CSII				4

KC-130 Detachment				
INSTRUCTOR DESIGNATION	Pilots	TSOs	Flight Engineers	Loadmasters
LATI	2			
ANI	3	2	3	2
WTI	1	1	1	1
DEFTACI	1			
NSI	1	1	1	1
T&RI	5	3	5	4
CSII				2

10. Definitions

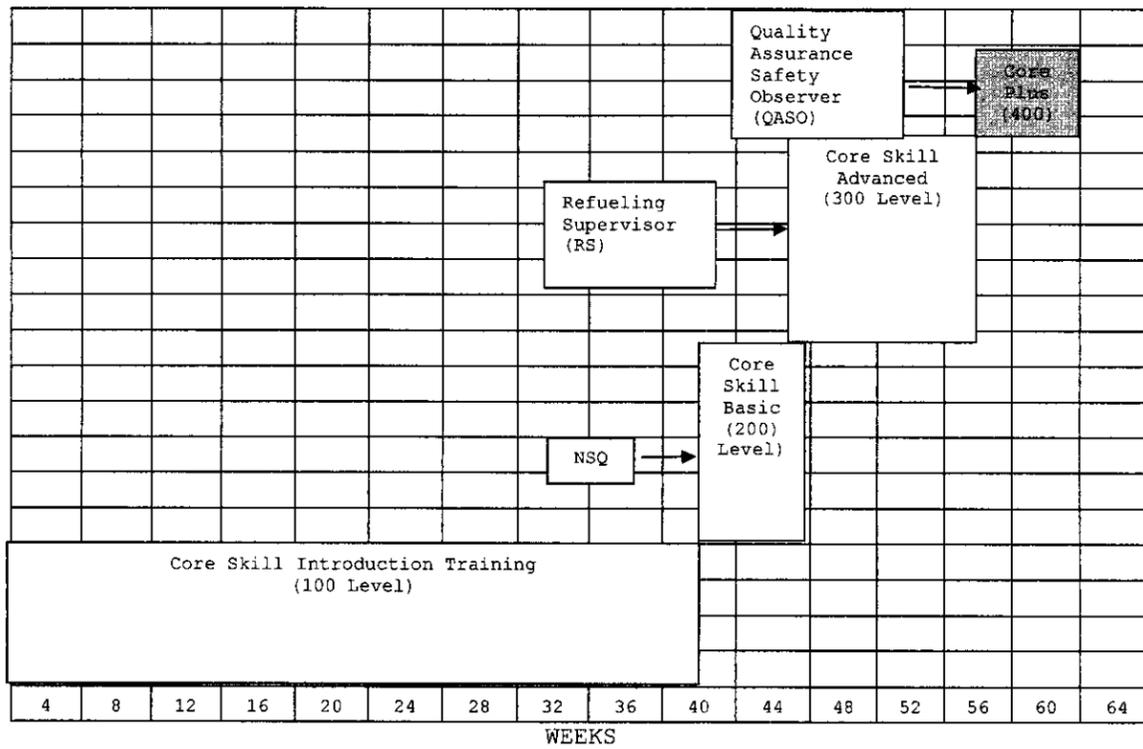
a. Currency. A control measure used to provide an additional margin of safety based on exposure frequency to a particular skill. It is a measure of time since the last event demanding that specific skill. Loss of currency does not affect a loss of Core Skill Proficiency (CSP). For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for individual type mission profiles can be found in the Aviation T&R Program Manual.

b. Proficiency. Proficiency is a measure of achievement of a specific skill. Re-fly factors establish the maximum time between demonstration of those particular skills. CSP is a measurement of "demonstrated proficiency." If an aircrew exceeds the re-fly factor for a particular event, the individual loses CSP for that particular event. To regain proficiency, an individual shall complete the delinquent event with a proficient crewman. If an entire unit loses proficiency, unit instructors shall regain proficiency by completing an event with instructors from a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. If a unit has only one instructor and cannot complete the event with an instructor from another unit, he shall regain proficiency with another loadmaster or as designated by his commanding officer.

c. Qualification. A qualification is a status assigned to personnel based on demonstration of proficiency in a specific skill. Specific criteria to achieve qualifications shall be delineated in individual T&R chapters. Upon successful completion of qualification criteria, commanding officers shall issue an appropriate qualification letter for inclusion in the NATOPS jacket and APR/MPR. Aircrew do not lose a qualification as a function of re-fly factor for individual events. Loss of proficiency (delinquent re-fly factor) for all associated qualification core skill events constitutes loss of that qualification. Re-qualification requires demonstration of proficiency. Specific re-qualification criteria shall be delineated in individual T&R chapters.

d. Designation. A designation is a status assigned to an individual based on leadership ability. A designation is a command specific, one-time occurrence and remains in effect until removed for cause. Specific designation requirements shall be delineated in individual T&R chapters. Commanders shall issue a designation letter to the individual upon the occasion of original designation, with appropriate copies for inclusion in the NATOPS jacket and APR.

11. KC-130 FRT Loadmaster Progression Model. The training progression model below provides recommended core skill, qualification, and designation attainment timelines for the average Loadmaster.



401. PROGRAM OF INSTRUCTION (POI) FOR BASIC, TRANSITION, AND CONVERSION LOADMASTER

WEEKS	COURSE	PERFORMING ACTIVITY
1-4	Naval Aircrew Candidate School (NACCS)	NACCS NAS Pensacola
5-9	Basic Aircraft Loadmaster (BLM)	189 th Airlift Grp/LRAFB
10-16	Loadmaster Initial Qualification (LIQ)	34 th TATG LRAFB
17-23	Loadmaster Mission Qualification (LMQ)	34 th TATG LRAFB
24-38	Core Skill Introduction Training	Tactical Squadron
39-44	Core Skill Basic Training	Tactical Squadron
45-54	Core Skill Advance Training	Tactical Squadron
55-60	Core Skill Plus Training	Tactical Squadron

402. POI FOR SERIES CONVERSION LOADMASTER

WEEKS	COURSE	PERFORMING ACTIVITY
2	Core Introduction Training	Tactical Squadron
2	Core Basic Training	Tactical Squadron
1	Core Advanced Training	Tactical Squadron
-	Core Plus Training	Tactical Squadron

403. POI FOR REFRESHER LOADMASTER

WEEKS	COURSE	PERFORMING ACTIVITY
6	Core Basic Training	Tactical Squadron
1	Core Advanced Training	Tactical Squadron
5	Core Plus Training	Tactical Squadron

404. POI FOR INSTRUCTOR LOADMASTER

WEEKS	COURSE	PERFORMING ACTIVITY
2	T&R Instructor	Tactical Squadron
1	Core Skill Introduction Instructor	Tactical Squadron
1	NATOPS Instructor	Tactical Squadron
2	Night Systems Instructor	MAWTS-1
5	Weapons and Tactics Instructor	MAWTS-1

410. GROUND TRAINING COURSES OF INSTRUCTION

1. Ground training shall be conducted for each syllabus level.
2. Squadron level ground training required to complete the syllabus are listed in each syllabus level.
3. The following external ground training courses of instruction are required:

<u>COURSE</u>	<u>ACTIVITY</u>
Survival, Evasion, Resistance, and Escape (SERE) Course	NAS Brunswick ME, or NAS North Island CA
NITE Lab	Tactical Squadron

4. The following external training courses are recommended:

<u>COURSE</u>	<u>ACTIVITY</u>
Advanced Airlift Tactics Training Course	AATTC, St. Joseph, MO
Air Transportation of Hazardous Cargo Certification Course	Regional Activity
Weight and Balance Course	Regional Activity
Joint Airdrop Inspector Course	Ft. Lee/Regional Activity

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

NATOPS General Flight and Operating Instructions (OPNAVINST 3710.7_)
 NATOPS Flight Manuals (NFM)
 NTRIP
 NATOPS Air-to-Air Refueling Manual (AAR Manual)
 KC-130 Tactical Manual (TACMAN) KC-130 NTP 3.22-1/3.22-3
 KC-130 Cargo Loading Manual (CLM)
 MCO P4030.19 Air Transportation of Hazardous Cargo
 T&R Program Manual
 MAWTS-1 Course Catalog
 MAWTS-1 Fixed Wing NVD Manual

Allied Tactical Publication - 56 (ATP-56) Air to Air Refueling
Flight Clearance - Issued by NAVAIR

412. GRADUATE LEVEL COURSES. There are 2 graduate level courses (NSI, and WTI) that qualify instructors to instruct specific events delineated in event or stage descriptions. The requirements for these instructor certifications are contained in the MAWTS-1 Course Catalog.

420. EVENT PERFORMANCE REQUIREMENTS

1. General

a. Environmental conditions (day or night) or Night Systems conditions shall be annotated in flight events and the syllabus matrix as follows:

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

b. All flights annotated with an "E" shall be evaluated per the Aviation T&R Program Manual.

c. Devices

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

d. This is an event based program. To that end, Loadmasters receiving initial training shall be instructed by either Loadmaster Instructors, WTI's, or NSI's (as required). Once a NATOPS qualified loadmaster successfully completes an initial event he is qualified in that event.

e. The time required to train a KC-130J Loadmaster to Core Skill Plus will vary depending on previous Loadmaster experience. Basic, transition, and model conversion loadmasters shall be assigned to the basic POI. Series conversion Loadmasters shall be assigned to the SC POI. Loadmasters returning to an operational force billet, who have previously been assigned to the Basic loadmaster POI, shall be assigned to the Refresher POI. Commanding Officers will review the qualifications, previous experience, currency, and demonstrated ability of refresher and series conversion Loadmasters with a view towards waiving and/or combining required flights.

f. All flights annotated with an "E" shall be evaluated per the Aviation T&R Program Manual.

g. Loadmasters conducting NS training shall be instructed by a NSI for all initial codes.

h. For NS operations, the fixed-wing minimum altitudes delineated in the Aviation T&R Program Manual shall be adhered to in all phases of flight except for ALZ operations and airdrops from IP inbound, at which point a descent to airdrop altitude or final approach procedure may be conducted.

i. Minimum altitudes for Aerial Delivery shall be as per ANTP 3-22.5-KC-130, Vol. 1, Chapter 6 and Appendix H.

2. Crew Resource Management (CRM). CRM shall be briefed for all flights and events.

421. CORE SKILL INTRODUCTION TRAINING

1. General

a. Upon completion of this phase of training, the loadmaster will be ready for NATOPS qualification. The loadmaster will be capable of basic NATOPS duties to include normal and emergency procedures and CRM.

b. All events in the Core Skill Introduction phase shall be instructed/evaluated by a designated Core Skills Introduction Instructor via appropriate aircrew training forms.

c. Once a loadmaster has completed the Core Skill Introduction series, no requirement exists to re-fly Core Skill Introduction flights.

d. Students should attend NITE Laboratory within this phase of training.

2. Cargo And Passenger Loading (CPL)

a. Purpose. Introduce the student to all duties on cargo and passenger flights. Upon completion of this stage of instruction, the student will demonstrate the ability to:

(1) Preflight and configure an aircraft per mission requirements.

(2) Determine available seating and/or cargo space.

(3) Plan cargo and/or passenger loading to conform with all aircraft and safety limitations IAW NAVAIR 01-75GAA-9 and 01-75GXX-1.

(4) Utilize all loading aids conforming to the limitations, installations, and usage of each per NAVAIR 01-75GAA-9.

(5) Safely load/off-load cargo per NAVAIR 01-75GAA-9 and 01-75GXX-1.

(6) A DD Form 365-4 will be computed with emphasis on accuracy.

(7) Safely inspect, handle, and transport cargo certified as hazardous material per MCO P4030.19.

(8) Post flight and document repairs required to return cargo compartment to operational readiness.

b. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

c. Ground/Academic Training. Core Skill Introduction academic courseware.

d. Simulator/Aircraft Event Training. (3 Events, 9.0 Hours).

CPL-100 3.0 1 Fuselage Trainer (FT)/KC-130F/R/T S/A

Goal. Introduce the student to loading litters, passengers, baggage and rolling stock on all aircraft configurations.

Requirement. The student will configure an aircraft for a flight transporting the maximum permitted number of litters, passengers, baggage and rolling stock. The student will demonstrate the installation of centerline & sidewall seats and seat spacing configurations. Special emphasis will be placed on maximum loads for overland & over water flights, winch operation and limitations, maximum ramp loads, baggage staging & handling, loading & tie down procedures, and accurate passenger manifesting, installation of litter equipment, safe movement of casualties, installation of ground loading ramps and tanker-configured aircraft considerations. In-flight cargo jettison procedures will be thoroughly explained by the instructor.

Performance Standard. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. Material Handling Equipment (MHE) from MWSS.

CPL-101 3.0 1 FT/KC-130F/R/T S/A

Goal. Introduce the student to loading palletized cargo on all aircraft configurations.

Requirement. The student will configure an aircraft for a flight transporting palletized cargo. Emphasis will be placed on tanker considerations, preflight inspection, operation of dual rail system and utilization of loading equipment. In-flight cargo jettison procedures and the use of the zero fuel weight limitations chart will be thoroughly explained by the student.

Performance Standard. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. Material Handling Equipment (MHE) from MWSS.

CPL-102 3.0 1 FT/KC-130F/R/T S/A

Goal. Introduce the student to loading hazardous cargo.

Requirement. The student, under the direct supervision of a qualified instructor, will configure an aircraft for a flight transporting hazardous cargo. The student will be introduced to Shippers Declaration forms and the MCO P4030.19X. Special emphasis will be placed on the use of the Hazmat Manual.

Performance Standard. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. MHE from MWSS.

3. Air-To-Air Refueling (AR)

a. Purpose. Train the student to perform the duties of an IRO. At the end of this phase of training the student will be able to:

- (1) Preflight the aircraft per specific mission requirements.
- (2) A DD Form 365-4 will be computed with emphasis on accuracy.
- (3) Perform duties as an IRO during hose checks, correctly identifying the status of the system's operation, and coordinating this status with the Flight Engineer.
- (4) Perform duties as an IRO during air-to-air refueling operations, correctly informing the Plane Commander and Flight Engineer of the status of the refueling system and receiver aircraft.
- (5) Complete aerial refueling records for turn-in to the required departments.
- (6) Correctly perform all related emergency procedures as necessary.

b. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

c. Ground/Academic Training. Core Skill Introduction academic courseware.

d. Flight Event Training. (2 Events, 4.0 Hours).

AR-110 2.0 1 KC-130F/R/T A

Goal. Introduce the student to duties of an IRO during a day fixed wing and/or tilt rotor air-to-air refueling mission.

Requirement. The student will conduct an aircraft preflight for a fixed wing and/or tilt rotor air-to-air refueling mission, and perform the duties of an IRO during a day fixed wing aerial refueling mission. The student will keep separate aerial refueling records for comparison at the end of the

flight. This flight should involve refueling multiple aircraft. The student should observe from both sides of the aircraft and monitor the ICS and all radio transmissions during the entire evolution. The student will demonstrate a thorough understanding of all tactical fixed wing air-to-air refueling terminology and aircraft positions.

Performance Standard. Per NFM, ATP-56 and NAVAIR 00-80T-110.

External Syllabus Support. Fixed wing receivers.

AR-111 2.0 1 KC-130F/R/T A

Goal. Introduce the student to the duties of an IRO during a day rotary wing air-to-air refueling mission.

Requirement. The student will conduct an aircraft preflight for a rotary wing air-to-air refueling mission, and perform duties during a day rotary wing aerial refueling mission. The student will keep separate aerial refueling records for comparison at the end of the flight. This flight should involve refueling multiple aircraft. The student should observe and monitor the ICS and all radio transmissions during the entire evolution. The student will demonstrate a thorough understanding of all rotary wing aerial refueling terminology and aircraft positions .

Performance Standard. Per NFM, ATP-56 and NAVAIR 00-80T-110.

External Syllabus Support. Rotary wing receivers.

4. Familiarization (FAM)

a. Purpose. Train the student to perform the basic NATOPS flight crew requirements, aircraft preflight preparation, cargo loading equipment use and storage, aircraft limitations and dimensions, location and use of emergency equipment, ground and inflight emergency procedures, and aircraft postflight procedures. Instruction shall be provided to the student demonstrating the location/conduct of the aircrew mission brief, the proper filing of the weight and balance form, DD Form 365-4, and galley preparations for a flight. At the end of this stage of training the student will be able to:

- (1) Participate in an aircrew mission brief, determine the special needs for the flight, and plan an aircraft configuration accordingly.
- (2) Coordinate with other crewmembers to ensure safe and timely conduct of the flight.
- (3) Preflight the aircraft per specific mission requirements.
- (4) A DD Form 365-4 will be computed emphasizing accuracy.
- (5) Properly configure the aircraft per aircrew mission brief and mission requirements.
- (6) Demonstrate a thorough knowledge of the ICS system, ICS operation, and communication discipline.

(7) Demonstrate the proper responses and perform all duties required during inflight and ground emergencies per section V of NATOPS.

(8) Conduct a proper aircraft postflight.

(9) Properly complete and file all related paperwork.

b. Crew Requirements. Minimum crew as required by NFM or NTPP/TACMAN as required for flight events.

c. Ground/Academic Training. Core Skill Introduction academic courseware.

d. Flight Event Training. (2 Events, 8.0 Hours).

FAM-115 4.0 1 KC-130F/R/T A

Goal. Introduce the student to standard NATOPS procedures, duties and responsibilities during normal operations, to include in-flight and ground emergencies.

Requirement. The student will demonstrate a thorough knowledge of all cargo compartment limitations to include; treadway limitations, deck limitations, tie down restraint criteria & formulas, pallet position limits, ramp limitations, maximum seating configurations, PSI limits, shoring requirements, cargo compartment height & width limitations, and the use of all applicable loading charts. The student will demonstrate the NATOPS procedures for ground evacuation, bailout, and in-flight door open warning. Additionally the student will observe and perform the following:

- (1) Attend the pilot/aircrew brief.
- (2) Check the aircraft discrepancy book (ADB) for pertinent entries.
- (3) Conduct a aircraft preflight.
- (4) Demonstrate the use of all emergency equipment.
- (5) Handle simulated emergency procedures IAW NATOPS.
- (6) Locate and operate the applicable ICS system.
- (7) Demonstrate takeoff/landing procedures and responsibilities.
- (8) Conduct a aircraft post flight.
- (9) Demonstrate emergency and manual extension of the main and nose landing gear.
- (10) Demonstrate main landing gear tie down procedures for tanker and cargo configured aircraft.

Performance Standard. IAW NFM.

FAM-116 4.0 SC 1 KC-130F/R/T A

Goal. Continue instructions on standard NATOPS procedures, duties, and responsibilities during normal operations to include inflight and ground emergencies.

Requirement. The student will brief and prepare for a standard flight. A thorough knowledge for the use of all cargo loading aids will be demonstrated by the student. Additionally, the student will demonstrate the NATOPS procedures for:

- (1) Ground evacuation.
- (2) Bailout.
- (3) In-flight door open warning.
- (4) Fuselage fire.
- (5) Smoke and fume elimination.
- (6) Rapid decompression.
- (7) Flap system failure.
- (8) Cargo Jettison.

Performance Standard. IAW NFM.

Prerequisite. FAM-115.

5. Long Range Navigation HF Communication (LRNAV)

a. Purpose. Train the student in HF communication equipment operation, procedures, relaying agencies, frequency selection, and responsibilities during overwater flights. Specifically, at the completion of this phase of instruction the student will be able to:

- (1) Conduct an operational check of aircraft HF communication equipment.
- (2) Compute a DD Form 365-4 emphasizing accuracy.
- (3) Troubleshoot HF equipment.
- (4) Prepare an aircraft for an overwater flight with respect to emergency equipment requirements.
- (5) Correctly operate all HF communication equipment.
- (6) Select a frequency based on time of day and distance to the controlling agency.
- (7) Conduct overwater HF communications including initial contact reports, compulsory enroute position reports, position report revisions, phone patches through USAF GCCS stations, be able to relay traffic to or from

other aircraft, obtain and/or request inflight clearances, and prepare an enroute distress message for transmission.

(8) Identify and monitor published guard channels on applicable radios.

(9) Correctly react to a ditching scenario.

b. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

c. Ground/Academic Training. Core Skill Introduction academic courseware.

d. Flight Event Training. (2 Events, 12.0 Hours).

LRNAV-150 6.0 SC 1 KC-130F/R/T A

Goal. Introduce the student to LRNAV HF communication procedures and equipment.

Requirement. The student will conduct an appropriate aircraft preflight, conduct an operational check of all HF communication equipment, perform the HF transmission of an initial contact report, enroute position reports, position report revisions, clearance copying, preparation of a distress message, and the preparation of all flight related documentation. The student will properly respond to a simulated ditching and a simulated overwater bailout drill. Additionally, the student will receive instruction on lost HF communication procedures and ditching duties on flights involving passengers.

Performance Standard. Per NFM.

LRNAV-151 6.0 SC 1 KC-130F/R/T A

Goal. Continue instruction on LRNAV HF communication procedures and equipment.

Requirement. The student will conduct an appropriate aircraft preflight, conduct an operational check of all HF communication equipment, perform the HF transmission of an initial contact report, enroute position reports, position report revisions, clearance copying, preparation of a distress message, and the preparation of all flight related documentation. The student will employ the concepts of crew coordination in the accomplishment of his assigned tasks. The student will properly respond to simulated lost HF communication procedures and ditching duties on flights involving passengers and cargo (cargo jettison).

Performance Standard. Per NFM.

Prerequisite. OW-150.

422. CORE SKILL BASIC TRAINING

1. General. Upon completion of this phase of training, the loadmaster shall be qualified in Night Systems, Cargo/Pax loading (to include hazardous cargo), Air-to-Air Refueling, Low Level flight, Threat Reaction, and Rapid Ground Refueling.

2. Night Systems (NS)

a. Purpose. Introduce and maintain proficiency Night Vision Devices (NVDs).

b. General. A loadmaster NSI shall instruct this stage of training. An NVD equipped aircraft should be used for this event.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training

(1) Completion of NITE Lab.

(2) Completion of academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 2.0 Hours).

NS-204 2.0 R 1 KC-130F/R/T A NS

Goal. Introduce NVDs.

Requirement. Emphasize NVD focusing and alignment, components, preflight, lighting, normal and emergency flight duties utilizing NVDs.

Performance Standards. Per NFM, TACMAN/NTTP, MAWTS-1 Fixed Wing NVD Manual, and NTRIP.

3. Air-To-Air Refueling (AR)

a. Purpose. Continue instruction or maintain proficiency in day and night tactical refueling missions.

b. General. A qualified Loadmaster T&R Instructor may instruct the day and night sorties. An NSI is required to instruct the initial NSQ sortie.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (3 Events, 6.0 Hours).

- AR-210 2.0 1 KC-130F/R/T A D
- Goal. Continue instruction, or maintain proficiency in day fixed wing or tilt rotor air-to-air refueling.
- Requirement. Perform duties as IRO during a day high-speed air-to-air refueling. Emphasize terminology, safety, emergency procedures, Emission Control (EMCON) signals, and ICS discipline.
- Performance Standards. Per NFM, NAVAIR 00-80T-110, ATP-56 and the TACMAN/NTTP.
- External Syllabus Support. Receiver aircraft.
- AR-211 2.0 1 KC-130F/R/T A D
- Goal. Introduce or maintain proficiency in day rotary wing air-to-air refueling.
- Requirement. Perform duties as IRO during day rotary wing air-to-air refueling. Emphasize terminology, safety, emergency procedures, EMCON signals, and ICS discipline.
- Performance Standards. IAW NFM, NAVAIR 00-80T-110, ATP-56 and the TACMAN/NTTP.
- Prerequisite. AR-210.
- External Syllabus Support. Receiver aircraft.
- AR-213 2.0 R 1 KC-130F/R/T A N
- Goal. Introduce or maintain proficiency in night fixed wing or rotary wing air-to-air refueling.
- Requirement. Perform duties as IRO during a night fixed wing, tilt rotor or rotary wing air-to-air refueling if utilizing NVDs emphasis will be on focusing and alignment, components, preflight, lighting, scanning, crew coordination, normal and emergency flight duties. Additional emphasis on terminology, safety, emergency procedures, EMCON signals, and ICS discipline.
- Performance Standards. Per NFM, NAVAIR 00-80T-110, ATP-56 TACMAN/NTTP, and the MAWTS-1 Fixed Wing NVD Manual.
- Prerequisite. (NS-204, AR-210, AR-211).
- External Syllabus Support. Receiver aircraft.

4. Cargo And Passenger Loading (CPL)

- a. Purpose. Qualify and maintain proficiency for cargo and passenger logistics flights.
- b. General. The following are basic requirements for all events of this stage of training. Additionally, Engine Running Loading/Off-Loading (ERO)

will be discussed/demonstrated, and cargo jettison procedures will be discussed:

- (1) Preflight per NFM and mission requirements.
- (2) Determine available seating, cargo space, escape hatch/liferaft/life preserver requirements.
- (3) Brief passengers as required per NFM.
- (4) Ensure hazardous materials comply with MCO P4030.19_.
- (5) Load passengers and/or cargo per NAVAIR 01-75GAA-9, NFM, TACMAN/NTTP.
- (6) Complete and file DD Form 365-4.
- (7) Provide passenger comfort/safety provisions.
- (8) Off-load passengers and/or cargo per NAVAIR 01-75GAA-9.
- (9) File required flight documentation to include DD-Form 365-4s, and Passenger and Cargo manifests. All other documentation per applicable directives.
- (10) Postflight and document repairs required to return aircraft to operational readiness.
- (11) A T&R Instructor may instruct this stage of training.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Flight Event Training. (3 Events, 6.0 Hours).

CPL-215 2.0 R 1 KC-130F/R/T A (N)

Goal. Continue instruction, and maintain proficiency in passenger, baggage and rolling stock loading.

Requirement. The loadmaster will configure and load passengers, baggage and rolling stock. Emphasize seating configurations, passenger briefing, and safety.

Performance Standards. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. Air terminal representative and MHE specific to mission requirements.

CPL-216 2.0 R 1 KC-130F/R/T A/S (N)

Goal. Continue instruction, and maintain proficiency in 463L pallet loading.

Requirement. The loadmaster will configure and load 463L pallets. Emphasize forklift/K-loader operations, dual rail preflight and operation.

Performance Standards. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. Air terminal representative and MHE specific to mission requirements.

CPL-217 2.0 R 1 KC-130F/R/T A/S (N)

Goal. Qualify or maintain proficiency of the Loadmaster in loading hazardous cargo.

Requirement. The student, under the direct supervision of a qualified instructor, will configure an aircraft for a flight transporting hazardous cargo. Emphasis will be placed on the considerations involved in preparing aircraft and gear for transportation of hazardous cargo. Ground evacuation and cargo jettison will be thoroughly reviewed taking into account hazardous material considerations. The student will prepare a DD Form 365-4. The student will ensure Shippers Declaration of Hazardous Goods are properly completed.

Performance Standards. Per NFM and NAVAIR 01-75GAA-9.

External Syllabus Support. Air terminal representative and MHE specific to mission requirements.

5. Tactical Navigation (TACNAV)

a. Purpose. Introduce and maintain proficiency in day and NS low level navigation.

b. General. A T&R Instructor may instruct the day sortie; an NSI is required to instruct the initial NS sortie. A like-qualified crewmember must accompany a Loadmaster who has lost proficiency.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (2 Events, 4.0 Hours).

TACNAV-220 2.0 1 KC-130F/R/T A D

Goal. Introduce and maintain proficiency in day low level navigation.

Requirement. Perform duties as aft lookout during a day low level mission. Emphasize cargo compartment preparation, crew briefing, route study, lookout doctrine, scanning for threats/terrain clearance, threat templates, and combat entry/exit checklists.

Performance Standards. Per NFM and TACMAN/NTTP.

TACNAV-223 2.0 R 1 KC-130F/R/T A NS

Goal. Introduce and maintain proficiency in NS low level navigation.

Requirement. Perform duties as aft lookout during a night systems low level mission utilizing NVDs with emphasis on focusing and alignment, components, preflight, lighting, scanning, terrain recognition, normal and emergency flight duties. Additional emphasis on cargo compartment preparation, crew briefing, route study, lookout doctrine, scanning for threats/terrain clearance, threat templates, and combat entry/exit checklists.

Performance Standards. Per NFM, TACMAN/NTTP, MAWTS-1 Fixed Wing NVD Manual.

Prerequisite. NS-204, TACNAV-220.

6. Aerial Delivery (AD)

a. Purpose. Introduce and maintain proficiency in personnel static line airdrop.

b. General. A T&R Instructor may instruct this sortie.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Use academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 4.0 Hours).

AD-241 4.0 R 1 KC-130F/R/T A (N)

Goal. Introduce and maintain proficiency in personnel static line airdrop.

Requirement. Perform duties as secondary, followed by primary, during a static line airdrop from the ramp or paratroop door. Training shall progress from secondary to primary duties. Emphasize preflight, configuration, limitations, rigging, briefing, loading, execution, checklists, and emergency procedures. Door bundles should be discussed. A DD Form 365-4 shall be completed emphasizing center of gravity and less airdrop load block.

Performance Standards. Per NFM, TACMAN/NTTP and NAVAIR 01-75GAA-9.

External Syllabus Support. USMC-authorized parachutists or other service equivalent.

7. Long Range Navigation (LRNAV)

a. Purpose. Continue instruction and maintain proficiency for long range navigation high-frequency (HF) communications.

b. General. A qualified T&R Instructor may instruct this sortie. A like qualified crewmember must accompany a Loadmaster who has lost proficiency.

c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

d. Flight Event Training. (1 Event, 8.0 Hours).

LRNAV-250 8.0 SC,R 1 KC-130F/R/T A (N)

Goal. Continue instruction and maintain proficiency for LRNAV HF communications.

Requirement. Perform duties as Airborne Radio Operator (ARO) using HF communication equipment. Emphasize components, operation, voice procedures, phone patch, frequency selection, trouble shooting, emergency procedures, and customs/agriculture. Escape hatch requirements, survival equipment and ditching procedures shall be discussed.

Performance Standards. Per NFM, FIH, and enroute supplement.

8. Threat Reaction (THRXI)

a. Purpose. Introduce and maintain proficiency for THRXI.

b. General. A qualified T&R Instructor may instruct this sortie. A WTI/LATI pilot or WTI loadmaster should instruct this sortie. If flown using night systems, loadmaster must be NSQ or accompanied by an NSI.

c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

d. Ground/Academic Training. Use academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Events, 2.0 Hours).

THRXI-261 2.0 R 1 KC-130F/R/T A (N)

Goal. Introduce and maintain proficiency for THRXI.

Requirement. Perform duties as aft lookout during a day or night systems TACNAV event. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scanning for threats/terrain clearance, threat templates, Aircraft Survivability Equipment, and combat entry/exit checklists.

Performance Standards. Per NFM, TACMAN/NTP and the NAVAIR 01-75GAA-9.

Prerequisite. (NS-204), TACNAV-220.

Ordnance. Smokey Sams, 140 decoy flares.

External Syllabus Support. Smokey Sam Team.

9. Assault Landing Zone (ALZ)

- a. Purpose. Introduce and maintain proficiency on a day and night systems ERO with tactical considerations.
- b. General. A qualified T&R Instructor may instruct this sortie. If flown using night systems, loadmaster must be NSQ or accompanied by an NSI.
- c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.
- d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.
- e. Flight/Simulator Event Training. (1 Events, 2.0 Hours).

ALZ-271 2.0 R 1 KC-130F/R/T A (N)

Goal. Introduce ERO procedures in conjunction with, ALZ operations or to maintain proficiency in ERO /ALZ qualified Loadmaster.

Requirement. Perform loadmaster duties during an ERO. Emphasize cargo compartment preparation for ALZ operations, protective equipment, expedient and safe loading/off-loading. Initial event completion should include reverse taxi maneuvering. Tactical considerations shall be discussed and/or performed.

Performance Standards. Per NFM, TACMAN/NTP, NAVAIR 01-75GAA-9, and Core Skill Basic Training guide.

Prerequisite. (NS-204)

External Syllabus Support. MHE.

10. Rapid Ground Refueling (RGR)

- a. Purpose. Continue instruction and maintain proficiency on day and NS RGR.
- b. General. A NSQ and proficient T&R Instructor may instruct this stage of training. If flown utilizing NS, loadmaster shall be NSQ or accompanied by an NSI.
- c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.
- d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.
- e. Flight Event Training. (2 Events, 4.0 Hours).

RGR-273 2.0 1 KC-130F/R/T A D

Goal. Continue instruction and maintain proficiency on day RGR.

Requirement. Perform duties during a day RGR, minimum 2 point setup, including actual transfer of fuel to either rotary wing, fixed wing aircraft, bulk fuel bladders or tactical vehicles. The initial event shall be conducted with rotary or fixed wing aircraft only. Initial instruction shall be on planning, inspection and configuration of equipment, site setup, Deployed Refueling Personnel (DRP) duties, safety, emergency procedures, and site teardown. Follow-on instruction should lead to Refueling Supervisor (RS) qualification.

Performance Standards. Per NFM, TACMAN/NTTP, NAVAIR 01-75GAA-9 and the MAWTS-1 Fixed Wing NVD Manual.

External Syllabus Support. Rotary wing or fixed wing aircraft or tactical vehicles.

RGR-274

2.0

R 1 KC-130F/R/T A NS

Goal. Continue instruction and maintain proficiency on NS RGR.

Requirement. Perform duties during a NS RGR, minimum 2 point setup, including actual transfer of fuel to either rotary wing, fixed wing aircraft, bulk fuel bladders, or tactical vehicles. The initial event shall be conducted with rotary or fixed wing aircraft only. Initial instruction shall be on planning, inspection and configuration of equipment, site setup, DRP duties, safety, emergency procedures, and site teardown. Follow-on instruction should lead to RS qualification.

Performance Standards. Per NFM, TACMAN/NTTP, NAVAIR 01-75GAA-9 and the MAWTS-1 Fixed Wing NVD Manual.

Prerequisite. NS-204, RGR-273.

External Syllabus Support. Rotary wing or fixed wing aircraft.

423. CORE SKILL ADVANCED TRAINING

1. General. Upon completion of this stage of training, the loadmaster will be qualified in Low Altitude Tactics (LAT), Container Delivery System (CDS), AD, and Combat Offload (COL). Instructors must be proficient in the skill they are teaching. If flown using night systems, loadmaster must be NSQ or accompanied by an NSI.

2. Tactical Navigation (TACNAV)

a. Purpose. Introduce and maintain proficiency in day LAT.

b. General. A WTI/LATI pilot or WTI loadmaster should instruct this sortie. A Lat qualified T&R Instructor may instruct this sortie.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 2.0 Hours).

TACNAV-322 2.0 R 1 KC-130F/R/T A D

Goal. Introduce and maintain proficiency in day LAT.
Requirement. Perform duties as aft lookout and/or rear vision device lookout during LAT. Emphasize cargo compartment preparation, crew briefing, route study, lookout doctrine, scanning for threats/terrain clearance, threat templates, and combat entry/exit checklists.

Performance Standards. Per NFM and the TACMAN/ANTTP.

Prerequisite. TACNAV-220.

External Syllabus Support. Approved LAT route.

3. Aerial Delivery (AD)

a. Purpose. Continue instruction and maintain proficiency in CDS.

b. General. A CDS qualified T&R Instructor may instruct this sortie. If flown utilizing NS, loadmaster shall be NSQ or accompanied by an NSI.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 2.0 Hours).

AD-340 2.0 SC,R 1 KC-130F/R/T A (N)

Goal. Continue instruction and maintain proficiency in CDS.

Requirement. Perform duties as the primary loadmaster (for initial event completion) during a day, night, or NS CDS airdrop from the ramp. Follow-on proficiency may be either primary or secondary. Emphasize preflight, configuration, limitations, rigging, briefing, loading, execution, checklists, and emergency procedures. A DD Form 365-4 shall be completed with emphasis on center of gravity and less airdrop load block.

Performance Standards. Per NFM, TACMAN/NTTP and the NAVAIR 01-75GAA-9. If flown utilizing NVDS the MAWTS-1 Fixed Wing NVD Manual applies.

External Syllabus Support. MHE and USMC Aerial Delivery Platoon, or other service equivalent.

4. Assault Landing Zone (ALZ)

a. Purpose. Introduce, and maintain proficiency in COL.

- b. General. A qualified T&R Instructor may instruct this sortie.
- c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.
- d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.
- e. Flight Event Training. (1 Event, 2.0 Hours).

ALZ-370 2.0 R 1 KC-130F/R/T A (N)

Goal. Introduce, and maintain proficiency in COL.

Requirement. Perform loadmaster duties during a day or night COL. Emphasize cargo compartment preparation, protective equipment, expedient and safe loading/off-loading. Tactical considerations shall be discussed and/or performed.

Performance Standards. Per NFM, TACMAN/NTTP and the NAVAIR 01-75GAA-9.

External Syllabus Support. MHE.

424. CORE SKILL PLUS TRAINING

1. General. Upon completion of this phase, the loadmaster will be qualified to conduct Heavy Equipment (HE), Combination, High Altitude Low Opening/High Altitude High Opening (HALO/HAHO) AD, Flare Delivery and Defensive Tactics (DEFTAC).

2. Aerial Delivery (AD)

- a. Purpose. Continue instruction and maintain proficiency for airdrops.
- b. General. A qualified T&R Instructor may instruct this stage. Any instructor may instruct the 444, but shall be designated as a QASO.
- c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.
- d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.
- e. Flight Event Training. (4 Events, 8.0 Hours).

AD-441 2.0 R 1 KC-130F/R/T A (N)

Goal. Continue instruction and maintain proficiency in Heavy Equipment (HE) airdrop.

Requirement. Perform duties as the primary loadmaster (for initial event completion) during a day, night, or night systems HE airdrop from the ramp. Follow-on proficiency may be either primary or secondary. Emphasize preflight, configuration, limitations, rigging, briefing, loading, execution, checklists, and emergency procedures. A DD Form

365-4 shall be completed with emphasis on center of gravity and less airdrop load block.

Performance Standards. Per NFM, TACMAN/NATTP and the NAVAIR 01-75GAA-9.

External Syllabus Support. MHE and USMC Aerial Delivery Platoon, or other service equivalent.

AD-442

2.0 R 1 KC-130F/R/T A (N)

Goal. Introduce and maintain proficiency in (HALO)/HAHO airdrop.

Requirement. Perform duties as primary day, night, or night systems HALO/HAHO personnel or cargo airdrop from the ramp or paratroop doors. Emphasize preflight, configuration, rigging, briefing, oxygen/physiology requirements, loading, execution, standardized military free-fall hand signals, checklists, and emergency procedures. A DD Form 365-4 shall be completed with emphasis on center of gravity and less airdrop load block.

Performance Standards. Per NFM, TACMAN/NATTP and the NAVAIR 01-75GAA-9. If flown utilizing NVDs the MAWTS-1 Fixed Wing NVD Manual applies.

Prerequisite. (NS-204, AD-241).

External Syllabus Support. USMC Force Reconnaissance Military Free-Fall or Ram Air Static Line parachutists and physiology observers, as required, or other service equivalent.

AD-443

2.0 R 1 KC-130F/R/T A (N)

Goal. Introduce and maintain proficiency in Combination (COMBO) airdrops consisting of equipment and parachutists.

Requirement. Perform duties as primary for initial event completion during a day, night, or NS COMBO airdrop from the ramp. Follow-on proficiency may be either primary or secondary. Emphasize preflight, configuration, limitations, rigging, briefing, loading, execution, checklists, and emergency procedures. A DD Form 365-4 shall be completed with emphasis on center of gravity and less airdrop load block.

Performance Standards. Per NFM, TACMAN/NATTP and the NAVAIR 01-75GAA-9.

Prerequisite. AD-241 and AD-340 or AD-441 (as applicable).

External Syllabus Support. USMC Aerial Delivery Platoon, Force Reconnaissance, or other service equivalent authorized to conduct over the ramp airdrop operations.

AD-444

2.0 R 1 KC-130F/R/T A N

Goal. Introduce and maintain proficiency in Battlefield Illumination (BI).

Requirement. Perform duties as team member and/or team leader for a BI. Emphasize aircraft parachute flare (APF) acceptance, loading, securing, operation, and rigging for emergency jettison of the flare delivery system. Additional emphasis shall be on safety and emergency procedures. Follow-on instruction will lead to Quality Assurance Safety Officer (QASO) designation.

Performance Standards. Per NFM, TACMAN/NTTP and the NAVAIR 01-75GAA-9.

Ordnance. LUU-2 and LUU-19 series APF.

External Syllabus Support. Appropriate range facility for BI.

3. Defensive Tactics (DEFTAC)

- a. Purpose. Introduce and maintain proficiency in DEFTAC.
- b. General. A WTI/DEFTACI pilot, or WTI loadmaster shall instruct this event.
- c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.
- d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.
- e. Flight Event Training. (1 Event, 2.0 Hours).

DEFTAC-462 2.0 R 1 KC-130F/R/T A D

Goal. Introduce and maintain proficiency in DEFTAC.

Requirement. Perform loadmaster duties as aft lookout and/or rear vision device lookout. Emphasize cargo compartment preparation, crew briefing, lookout doctrine, scanning for threats/terrain clearance, threat templates, and combat entry/exit checklists.

Performance Standards. Per NFM and the TACMAN/ANTTP.

External Syllabus Support. Aggressor aircraft.

425. INSTRUCTOR TRAINING

1. Squadron Instructor Training

- a. Purpose. Qualify the Loadmaster as a Squadron Instructor. Instructors will instruct the Core Skill Basic, and Advanced syllabus at the operational squadron.
- b. General. Standardization will be emphasized throughout Instructor training. IUT should have a minimum of 1,000 hours in type model.
- c. Crew Requirements: Standard per NFM.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate Type/Model/Series chapter of the MAWTS-1 Course Catalog.

e. Flight Training. (2 Events, 6.0 Hours).

IUT-501 3.0 1 KC-130 F/R/T A (N)

Goal. Train Loadmaster IUT.

Requirement. IUT will demonstrate the ability to instruct a student loadmaster in all facets of the duties of a Loadmaster on the KC-130 F/R/T. The IUT will also demonstrate the ability to correct common student errors as simulated by a Loadmaster NATOPS Instructor. The IUT will apply standardized instructional techniques.

Performance Standard. IAW NATOPS.

Prerequisite. Loadmaster with a minimum of 1000 hours in type model.

IUT-502 3.0 1 KC130 F/R/T A (N)

Goal. Continue Training Loadmaster IUT.

Requirement. IUT will conduct training for a student Loadmaster under the supervision of a NATOPS/Assistant NATOPS Instructor applying the standardized instructional techniques. Upon completion of this sortie the IUT will be evaluated on the RQD 605 code.

Performance Standard. IAW NATOPS.

Prerequisite. IUT-501.

426. REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS

1. Rapid Ground Refueling (RGR)

a. Purpose. Evaluate and designate as a RGR Supervisor and Taxi Director.

b. General. Upon completion of this flight, the loadmaster shall be capable of planning, briefing, and executing an RGR mission as a Refueling Supervisor and Taxi Director. The squadron commanding officer may then designate the loadmaster as an RS and RGR taxi director.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 2.0 Hours).

RQD-601 2.0 1 KC-130F/R/T A (N)

Goal. Evaluate and designate as a RGR Supervisor and Taxi Director.

Requirement. Perform duties as a Refueling Supervisor (RS) during a day or NS RGR, minimum 2 point setup, including actual transfer of fuel to receiver(s). Emphasize planning, briefing, inspection and configuration of equipment, site setup, hand and arm signals, lighting and marking, RS duties, safety, emergency procedures, and site teardown. Additionally, the RS will taxi- direct aircraft.

Performance Standards. Per NFM and TACMAN/NATTP. If flown utilizing NVD the MAWTS-1 Fixed Wing NVD Manual applies.

Prerequisite. RGR-273, 274.

External Syllabus Support. Rotary wing aircraft.

2. Aerial Delivery (AD)

a. Purpose. Evaluate and qualify as a QASO for BI.

b. General. Upon completion of this training, the loadmaster shall be capable of accepting and loading APF, rigging the aircraft for BI, and conducting a BI flight. Emphasize emergency oxygen/smoke mask requirements and flare emergencies to include; flare timer separation and flare stowage box jettison.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 2.0 Hours).

RQD-602 2.0 1 KC-130F/R/T A N

Goal. Evaluate and qualify as a QASO for BI.

Requirement. Perform duties as QASO. Emphasize APF acceptance, loading, securing, operation, and rigging the flare delivery system for emergency jettison. Additional emphasis shall be on safety and emergency procedures.

Performance Standards. Per NFM, TACMAN/NTTP, NAVAIR 01-75GAA-9, and Core Skill Basic Training guide.

Prerequisite. AD-444.

Ordnance. LUU-2 or LUU-19 series APF.

External Syllabus Support. Ordnance-qualified personnel.

3. Night Systems Qualification (NSQ)

a. Purpose. Qualify the Loadmaster as night systems qualified (NSQ).

b. General

(1) An NSI Loadmaster shall conduct this phase of instruction.

(2) NVG time logged as part of NITE Lab will count toward NSQ qualification.

c. Ground Training. Ground training will be successfully completed PER the MAWTS-1 Loadmaster ASP.

d. Flight Training. (1 Flight, 2.0 Hours)

RQD-604

TRACKING CODE

Goal. Tracking Code for Loadmaster as NSQ.

Prerequisite. NS-204, Minimum of 10 hours of total NVD time 5 hours NVD time must be under low light conditions. Night Lab and MAWTS-1 approved ground course.

4. Training And Readiness Instructor (TRI)

a. Purpose. Qualify as a TRI.

b. General

(1) Squadron NATOPS Instructor (SNI) or higher shall evaluate this stage of training.

(2) A minimum of 1,000 flight hours in type model is required.

(3) Core Skill Basic training shall be complete and Core Skill Advanced training should be complete.

c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize Instructor series academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 4.0 Hours).

RQD-605

4.0

E 1 KC-130F/R/T A (N)

Goal. Qualify as a TRI.

Requirement. Demonstrate the ability to instruct all responsibilities and duties for Core Skill Basic and Core Skill Advanced training.

Performance Standards. Per NFM and the MAWTS-1 Course Catalog.

Prerequisite. IUT-502.

5. NATOPS Instructor (NTPSI)

a. Purpose. Qualify as a NATOPS Evaluator, NATOPS Instructor, or Assistant NATOPS Instructor.

b. General

(1) The model manager shall evaluate the NATOPS Evaluator.

(2) The NATOPS Evaluator shall evaluate the NATOPS Instructor.

(3) The NATOPS Evaluator or Instructor shall evaluate the Assistant NATOPS Instructors.

(4) Open and closed book examinations shall be complete prior to this evaluation.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Flight Event Training. (1 Event, 4.0 Hours).

RQD-606 4.0 E 1 KC-130F/R/T A (N)

Goal. Qualify as a NATOPS Evaluator, NATOPS Instructor, or Assistant NATOPS Instructor.

Requirement. Demonstrate the ability to evaluate a loadmaster in NATOPS procedures.

Performance Standards. Per NFM and OPNAV 3710.7_.

Prerequisite. RQD-605.

6. Night Systems Instructor (NSI)

a. Purpose. Qualify as a NSI.

b. General. See MAWTS-1 Course Catalog.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 4.0 Hours).

RQD-607 4.0 E 1 KC-130F/R/T A NS

Goal. Qualify as a NSI.

Requirement. Per the MAWTS-1 Course Catalog.

Performance Standards. Per NFM, MAWTS-1 Fixed Wing Night Vision Device Manual, TACMAN/NATTP, and MAWTS-1 Course Catalog.

Prerequisite. RQD-604, RQD-605.

External Syllabus Support. MAWTS-1 Staff Instructor.

7. Weapons Tactics Instructor (WTI)

a. Purpose. Qualify as a WTI.

b. General. A WTI candidate shall meet the prerequisites contained in the MAWTS-1 course catalog and WTI Planning Guide. The WTI Planning guide is available on the MAWTS-1 NIPRNET Website.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 4.0 Hours).

RQD-608

TRACKING CODE

Goal. Tracking Code for WTI.

Requirement. Per MAWTS-1 Course Catalog.

Performance Standards. Per NFM, MAWTS-1 Fixed Wing NVD Manual, TACMAN/NTTP, and MAWTS-1 Course Catalog.

Prerequisite. RQD-607.

Ordnance. 15 LUU-2X/X/19X, 140 MJU-8, 160 RR-129.

External Syllabus Support. MAWTS-1.

8. Core Skills Introduction Instructor (CSII)

a. Purpose. Qualify as a CSII.

b. General

(1) Squadron NATOPS Instructor (SNI) or higher shall evaluate this stage of training.

(2) A minimum of 1,000 flight hours in type model is required.

(3) Core Skill Basic training shall be complete and Core Skill Advanced training should be complete.

c. Crew Requirements. Minimum crew as required by NFM or NTTP/TACMAN as required for flight events.

d. Ground/Academic Training. Utilize Instructor series academic courseware as outlined in the appropriate KC-130FRT chapter of the MAWTS-1 Course Catalog.

e. Flight Event Training. (1 Event, 4.0 Hours).

RQD-609 4.0 E 1 KC-130F/R/T A D

Goal. Qualify as a CSII.

Requirement. Demonstrate the ability to instruct all responsibilities and duties for Core Skill Introduction syllabus training.

Performance Standards. Per NFM, and the MAWTS-1 Course Catalog.

Prerequisite. RQD-605.

9. NATOPS

a. Purpose. Evaluate NATOPS requirements.

b. General

(1) KC-130FRT Loadmaster NATOPS Evaluator, NATOPS Instructor, or Assistant NATOPS Instructor shall evaluate this flight.

(2) Open and closed book examinations shall be complete prior to NATOPS flight evaluation.

(3) CRM lecture must be complete prior to this flight.

(4) Any other requirements as dictated by NATOPS and local directives.

c. Crew Requirements. Minimum crew as required by NFM or NTP/TACMAN as required for flight events.

d. Ground/Academic Training. CRM lecture.

e. Flight Event Training. (1 Event, 4.0 Hours).

RQD-690 4.0 E 1 KC-130F/R/T A (N)

Goal. Evaluate NATOPS requirements.

Requirement. The loadmaster will demonstrate the ability to meet NATOPS requirements.

Performance Standard. Per NFM.

427. EXPENDABLE ORDNANCE REQUIREMENTS

BASIC/TRANSITION/CONVERSION/REFRESHER

ORDNANCE	100 SERIES	200 SERIES	300 SERIES	400 SERIES	IUT	ANNUAL
MJU-8		140				140
RR-129						
RR-144						
*LUU-2A/B,B/B				30	15	15
*LUU-19				30	15	15

*Note. LUU-2 and LUU-19 series APFs are interchangeable for loadmaster training requirements. The numbers in each column represent the total number required for individual loadmaster training.

428. SYLLABUS MATRIX

AC-119G(L) LOADMASTER														
100-SERIES CORE SKILL INTRODUCTION														
STAGE	TRNG CODE	EVENT DESCRIPTION	FLIGHT HOURS	SIMULATOR HOURS	REFLY INTERVAL	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVALUATION	CRP	CHAINING	EVENT CONVERSION
BASED AIRCRAFT LOADMASTER														
LRAFB		INTRO	30.0									30.0		
			30.0	0.0								30.0		
CARGO AND PASSENGER LOADING														
CPL	100	PAX, BAGS, AND ROLLING STOCK		3.0	*	S/A	D					4.0		100
CPL	101	PALLETIZED CARGO		3.0	*	S/A	D					4.0		101
CPL	102	HAZARDOUS CARGO		3.0	*	S/A	D					4.0		102
			0.0	9.0								12.0		
AIR-TO-AIR REFUELING														
AR	110	FWAR/TILTROTOR	2.0		*	A	1 D					3.0		110
AR	111	HAR	2.0		*	A	1 D					3.0		111
			4.0	0.0								6.0		
FAMILIARIZATION														
FAM	115	EP'S, AC LIMITATIONS	4.0		*	A	1 D					3.0		115
FAM	116	EP'S, AC LIMITATIONS	4.0		*	A	1 D	115	SC			3.0		116
			8.0	0.0								6.0		
OVERSEAS HF COMMUNICATION														
LRNAV	150	HF COMM	6.0		*	A	1 D			SC		3.0		150
LRNAV	151	HF COMM	6.0		*	A	1 D	150	SC			3.0		151
			12.0	0.0								6.0		
TOTAL FLT/SIM HOURS FOR STAGE			54.0	9.0	TOTAL CRP FOR STAGE						60.0			