

3148. OCCUPATIONAL FIELD 73, NAVIGATORS AND UNMANNED AIRCRAFT SYSTEM OFFICERS/OPERATORS

1. Introduction. The Enlisted Flight Crews in this OccFld assist in the planning and execution of tactical in-flight refueling and assault support missions, perform navigational duties, and operate and maintain the various communications and loading equipment in transport aircraft.

2. MOS 7307, Unmanned Aircraft System (UAS) Operator, RQ-7 (SSgt to Pvt) PMOS

a. Summary. The RQ-7 Unmanned Aircraft Systems Operator is responsible for planning and executing UAS missions in support of the MAGTF.

b. Prerequisites

- (1) Must possess a GT score of 110 or higher (max 3-point waiver).
- (2) Security requirement: Secret security clearance eligibility.
- (3) Must have normal color vision.
- (4) Must pass a Class III Flight Physical per reference (ai), Manual of Naval Medical Depart, section IV, Article 15-63, para 1c.

c. Requirements

- (1) Complete the Unmanned Aircraft Systems Operator Common Core Course at U.S. Army Intelligence Command.
- (2) Complete the Shadow Unmanned Aircraft System Operator Course at U.S. Army Intelligence Center of Excellence.

d. Duties

- (1) For a complete listing of duties and tasks, refer to reference (h), RQ-7 Shadow Operator chapter, Unmanned Aircraft System (UAS) Training and Readiness Manual. Tasks include but are not limited to the following:
 - (a) Control of launch, safe navigation and recovery of RQ-7 Aircraft.
 - (b) Operate onboard payloads utilizing optical sensors to include, but not limited to, electro-optical, infra-red, laser marking and laser targeting.
 - (c) Execute remote video terminal operations.
 - (d) Conduct call-for-fire to facilitate indirect fire missions.
 - (e) Execute techniques and procedures in the performance of terminal guidance operations.

e. Related Standard Occupational Classification (SOC) Title and Code. Electro-Mechanical Technicians 17-3024.

f. Related Military Skill

(1) Unmanned Aircraft System (UAS) Operator, MQ-21, 7321.

(2) Unmanned Aircraft System (UAS) Specialist, 7314.

3. MOS 7313, Helicopter Specialist, AH-1Z/UH-1Y (MGySgt to Pvt) NMOS (6048, 6114, 6124, 6154, 6174, 6324, 6531)

a. Summary. Ground Maintenance Technicians and Aircrew are responsible for performing duties incident to the maintenance and operation of Marine AH-1Z and UH-1Y Aircraft. This MOS will be assigned only to qualified AH-1W and UH-1N Maintenance Technicians and Aircrew holding 6048, 6114, 6124, 6154, 6174, 6324, or 6531.

b. Prerequisites. See requirements.

c. Requirements

(1) Meet all requirements/prerequisites for the primary H-1 MOS.

(2) Complete the appropriate formal school at NAMTRAGRUMARDET, MCAS Camp Pendleton, CA or complete an equivalent OMA Contractor Maintenance/Aircrew Course for the appropriate MOS.

(3) Complete the Maintenance Training Management and Evaluation Programs (MATMEP) Level II asterisk items for the appropriate MOS. The Level II asterisk items are the mandatory "Training Task" contained in the formal school training tracks.

(4) Aircrew must complete all requirements contained in the appropriate NATOPS Manual or syllabi peculiar to the AZ-1Z and UH-1Y aircraft.

d. Duties. For a complete listing of duties and tasks refer to reference (bo), Aviation Training and Readiness (T&R) Manual, and reference (bn), Maintenance Training Management and Evaluation Programs (MATMEP) for MOS 7313.

e. Related Standard Occupational Classification (SOC) Title and Code. Air Crew Members 55-3011.

f. Related Military Skill. None.

4. MOS 7314, Unmanned Aircraft System (UAS) Operations Specialist (MGySgt to GySgt) PMOS

a. Summary. The Unmanned Aircraft System Operations Specialist is responsible for planning, coordinating, and integrating unmanned aircraft system missions in support of the MAGTF.

b. Prerequisites

(1) Security requirement: Secret security clearance eligibility.

(2) Must possess PMOS 7307 or 7321.

c. Requirements. Completion of the Unmanned Aircraft System Operations Specialist Course or other training directed by DCA is required within one year after selection to the grade of Gunnery Sergeant, unless assigned to a billet not in direct support of a VMU, to include a Special Duty Assignment. If fulfilling such a billet the UAS Operations Specialist will have one year to complete the course upon return to a VMU squadron.

d. Duties

(1) For a complete listing of duties and tasks, refer to reference (h), Unmanned Aircraft System Operations Specialist chapter, Unmanned Aircraft System (UAS) Training and Readiness Manual.

(2) Provide UAS subject matter expertise to commander.

(3) Manage standardization of unit UAS operational policies and procedures.

(4) Demonstrate a thorough working knowledge of the OPNAVINST 3710 procedures and other operational publications involving UAS.

(5) Demonstrates a thorough understanding of Marine Corps aviation staff organization and functioning of the Marine Aircraft Group, Marine Aircraft Wing, and FMF Headquarters levels.

e. Related Standard Occupational Classification (SOC) Title and Code. Electro-Mechanical Technicians 17-3024.

f. Related Military Skill

(1) Unmanned Aircraft System (UAS) Operator, RQ-7, 7307.

(2) Unmanned Aircraft System (UAS) Operator, MQ-21, 7321.

5. MOS 7316, External Unmanned Aerial Vehicle (UAV) Operator (MGySgt to Sgt) NMOS (7314)

a. Summary. External UAV Operators execute the initial takeoff and final landing phases of UAV operations. They are also an integral part of all mission planning, takeoff and landing sequences, and crew coordination aspects of UAV Flight.

b. Prerequisites. See requirements.

c. Requirements

(1) This MOS is to be assigned as NMOS to qualified Air Vehicle Operators (MOS 7314) who have successfully completed formal training at Ft Huachuca, AZ in external UAV operations.

(2) Superior adaptability to three-dimensional spatial relationships.

(3) Must meet all the physical requirements per reference (ai), the Naval Medical Department Manual, section IV, article 15-65, paragraph 1.15, for MOS 7314, with the following addition: Depth Perception-AFVT A-D.

d. Duties. For a complete listing of duties and tasks, refer to reference (bt), Unmanned Aerial System (UAS) Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code.
Electro-Mechanical Technicians 17-3024.

f. Related Military Skill. None.

6. MOS 7321, Unmanned Aircraft System (UAS) Operator, MQ-21 (SSgt to Pvt)
PMOS

a. Summary. The MQ-21 Unmanned Aircraft Systems Operator is responsible for planning and executing UAS missions in support of the MAGTF.

b. Prerequisites

(1) Must possess a GT score of 110 or higher (max 3-point waiver).

(2) Security requirement: Secret security clearance eligibility.

(3) Must have normal color vision.

(4) Must pass a Class III Flight Physical per reference (ai), Manual of Naval Medical Depart, section IV, Article 15-63, para 1c.

c. Requirements

(1) Complete the Unmanned Aircraft Systems Operator Common Core Course at U.S. Army Intelligence Command or complete equivalent course at location TBD.

(2) Complete the formal BlackJack Unmanned Aircraft System Operator Course or Mobile Training Team equivalent course.

(3) Completion of a local syllabus.

(4) Upon recommendation of the unit CO.

d. Duties

(1) For a complete listing of duties and tasks, refer to reference (h), MQ-21 Blackjack Operator chapter, Unmanned Aircraft System (UAS) Training and Readiness Manual. Tasks include:

(a) Control of launch, safe navigation and recovery of MQ-21 Aircraft during either ground-based or sea-based operations.

(b) Operate onboard payloads utilizing optical sensors to include, but not limited to, electro-optical, infra-red and laser marking.

(c) Execute remote video terminal operations.

(d) Conduct call-for-fire to facilitate indirect fire missions.

(e) Execute techniques and procedures in the performance of terminal guidance operations.

e. Related Standard Occupational Classification (SOC) Title and Code.
Electro-Mechanical Technicians 17-3024.

f. Related Military Skill

(1) Unmanned Aircraft System (UAS) Operator, RQ-7, 7307.

(2) Unmanned Aircraft System (UAS) Specialist, 7314.

7. MOS 7372, Tactical Systems Operator/Mission Specialist (MGySgt to LCpl)
PMOS

a. Summary. Tactical Systems Operators/Mission Specialist perform advanced tactical navigation, threat assessment, and global mission planning tasks and procedures required to conduct in-flight operations in a tactical environment, to include: tactical pilotage, aerial refueling, aerial delivery, low-level flight, night vision systems, battlefield illumination and defensive systems.

b. Prerequisites. See requirements.

c. Requirements

(1) Complete Survival Evasion Resistance and Escape (SERE) School.

(2) Complete the appropriate formal "C" school at the Marine Aerial Navigator Flight Training School at VMGRT-253, MCAS Cherry Point, NC.

d. Duties. For a complete listing of duties and tasks, refer to reference (bo), and the Aviation Training and Readiness (T&R) Manual for MOS 7372.

e. Related Standard Occupational Classification (SOC) Title and Code. Airline Pilots, Copilots, and Flight Engineers 53-2011.

f. Related Military Skill. None.

8. MOS 7377, Weapons and Tactics Instructor (WTI) Unmanned Aircraft Systems
(MGySgt to Sgt) NMOS (7314)

a. Summary. Weapons and Tactics and Instructor (WTI) Unmanned Aircraft Systems Enlisted are subject matter experts who train personnel on aviation unmanned systems for operations in a total threat environment in coordination with ground and other aviation units.

b. Prerequisites. Must hold MOS 7314.

c. Requirements. Must successfully complete the MAWTS-1 Weapons and Tactics Instructor course.

d. Duties. For a complete listing of duties and tasks, refer to reference (bt), Unmanned Ariel System (UAS) Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Teachers and Instructors, All Other 25-3099.

f. Related Military Skill. None.

MGySgt	7313	7314	7316	7372
MSgt	7313	7314	7316	7372
GySgt	7313	7314	7316	7372
SSgt	7313	7314	7316	7372
Sgt	7313	7314	7316	7372
Cpl	7313	7314		7372
LCpl	7313	7314		7372
PFC	7313	7314		
Pvt	7313	7314		

MOS	Title
7313	Helicopter Specialist, AH-1Z/UH-1Y (NMOS)
7314	Unmanned Aircraft System (UAS) Operator (PMOS)
7316	External Unmanned Aerial Vehicle (UAV) Operator (NMOS)
7372	Tactical Systems Operator/Mission Specialist (PMOS)

Figure 3-39.--Navigation Officer/Enlisted Flight Crews

MOS 7372, Tactical Systems Operator/Mission Specialist (PMOS)

MGYSGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 OPFOR: Sqdn SE: MANS Instr

MSGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 OPFOR: Sqdn SE: MANS Instr/Instr

GYSGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 Combat Aircrew Training School OPFOR: Sqdn SE: Navy Flt Demo Sqdn/MANS Instr/FRS Instr

SSGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 Central Altitude Reservation Function Course OPFOR: Sqdn SE: MANS Instr/FRS Instr

SGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 Weapon and Tactics Air Crew Instructor OPFOR: Sqdn SE: MANS Instr/FRS Instr

CPL	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 Advance Airlift Tactics Training Course OPFOR: Sqdn SE: None

LCPL	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	 Marine Aerial Navigation/School Fleet Replacement Squadron Course SERE Naval Aircrew Candidate School OPFOR: Sqdn SE: None

Figure 3-39.--Navigation Officer/Enlisted Flight Crews