

3143. OCCUPATIONAL FIELD 65, AVIATION ORDNANCE

1. Introduction. Aviation ordnance MOSs handle aviation Class V (A) ammunition issues from safety to procurement, storage, buildup, delivery, and subsequent aircraft loading and downloading. The OccFld includes organizational and intermediate maintenance of aircraft weapons systems, guns, gun pods, bomb racks, missile launchers, and aviation ordnance support equipment. Aviation ordnance Marines are qualified and certified under current directives. Formal schooling is provided to Marines entering the OccFld. A wide variety of billet assignments are available as shown in the figure later in this entry. Marines entering this OccFld receive MOS 6500, Basic Aviation Ordnance Marine, and attend Aviation Ordnanceman, Class AO A1 School at Pensacola, FL with follow-on training at one of several CNATT AO(C) Courses dependent upon anticipated fleet assignment. Upon completion of AO(C) Course, they will participate in routine aviation ordnance functions and attend specialized schools while training for a designated MOS within the OccFld.

2. MOS 6531, Aircraft Ordnance Technician (SSgt to Pvt) PMOS

a. Summary. This MOS encompasses duties incident to the inspection, maintenance and repair of armament equipment and loading of aviation ordnance on Marine Corps aircraft. The Aircraft Ordnance Technician performs a variety of duties and tasks such as inspecting ammunition, testing aircraft systems, performing preventive maintenance and effecting repairs, loading and fusing ammunition and arming/de-arming aircraft.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must possess a GT score of 105 or higher.
- (3) Must have normal color perception.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must possess a valid state drivers license (Sgt to Pvt)
- (6) Must meet the medical requirements for Explosives Handlers and Explosives Vehicle Operators contained in reference (ai), Article 15-107.
- (7) Marines who handle explosives must meet the criteria to be qualified and certified as per reference (ay).

c. Requirements

- (1) Complete the applicable CNATT AO (C) Course appropriate for the intended initial aircraft assignment.
- (2) Must obtain GSE licenses appropriate for the aircraft assigned.
- (3) Must obtain Incidental Motor Vehicle operator licensing for High Mobility Multi-Wheeled Vehicle (HMMWV Tactical Vehicle).

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
M04G3Q6	AV-8B Armament Organizational Systems Maintenance	Cherry Point, NC
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
M2368V1	H-1 Y/Z Ordnance Maintenance System Organizational Pipeline	Camp Pendleton, CA
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
N56G3X2	F-35B Aircraft Ordnance Systems Technician	
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
N25G3L5	F/A-18 Armament Systems Organizational Maintenance	Virginia Beach, VA

d. Duties

(1) SSgt to Pvt:

(a) Employs appropriate safety precautions, security procedures, and record-keeping techniques for ordnance.

(b) Operates and performs operator maintenance on armament weapons support equipment and aircraft armament equipment.

(c) Loads and unloads airborne weapons and stores aboard aircraft to include reconfiguration and functional testing of aircraft weapons release and control, missile, and guns systems.

(d) Removes, maintains, services, installs, and loads aircraft guns.

(e) Arms and de-arms aircraft.

(f) Inventories, manages, and maintains cartridge actuated devices, electronic countermeasures, training missiles and munitions.

(g) Supports and actively participates in a thorough comprehensive weapons systems, safety and training programs.

(2) SSgt to Cpl:

(a) Conducts functional tests of racks, launchers, adapters and electrical components, aircraft armament circuits and maintains them in an operational status by appropriate preventive maintenance.

(b) Configures or reconfigures assigned aircraft for carriage of any aviation ammunition within the capability of the aircraft by installing or removing racks, launchers, adapters, and electrical components.

(c) Maintains and installs aerial target towing equipment; maintains and operates associated support equipment.

(d) Conducts functional tests of aircraft armament electrical fusing, firing, and release circuits and maintains them in an operational status.

(3) SSgt to Sgt:

(a) Applies bore sight procedures and techniques as applicable to aircraft sights and weapons systems.

(b) Procures supplies, maintains records, prepares reports, and utilizes publications pertinent to aviation ordnance and aircraft armament equipment.

(c) Performs quality control of work accomplished by the ordnance section on aircraft assigned.

(d) Prepares and submits unsatisfactory equipment reports as outlined in reference (br).

(e) Trains aircraft ordnance technicians in all phases of squadron level aviation ordnance.

(f) Applies administrative procedures necessary to establish and operate a squadron ordnance section.

(g) Conducts administrative and material inspections of squadron ordnance sections.

(h) Prepares Conventional Ordnance Deficiency Reports, Explosive Mishap Reports, Explosive Event Reports, Technical Publication Deficiency Reports, Missile Fire Reports, Product Quality Deficiency Reports, Missing Lost Stolen/Recovered Ammunition Reports, and Engineering Investigation Requests, when appropriate.

e. Related Standard Occupational Classification (SOC) Title and Code

(1) Maintenance and Repair Workers, General 49-9042.

(2) Explosive Workers, Ordnance Handling Experts, and Blasters 47-5031.

f. Related Military Skill. Aviation Ordnance Equipment Repair Technician, 6541.

3. MOS 6541, Aviation Ordnance Systems Technician (SSgt to Pvt) PMOS

a. Summary. Aviation Ordnance Equipment Repair Technicians perform duties incident to the accounting, stowage, breakout, testing, maintenance, assembly and transportation of airborne armament equipment, munitions handling equipment, air launched missiles, and conventional munitions. At the IMA level, aviation ordnance equipment repair technicians perform required inspections, tests, checks adjustments, preventive maintenance and repair on support equipment, missile launching equipment, multiple ejection/ bomb racks, aircraft guns, turrets, aerial targets, and a wide variety of highly technical aircraft armament weapons systems in addition to performing quality assurance, safety, and maintenance management duties.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must have a GT score of 105 or higher.
- (3) Must have normal color perception.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must possess a valid state drivers license (Sgt to Pvt).
- (6) Must meet the medical requirements for Explosives Handlers and Explosives Vehicle Operators contained in Article 15-107 of reference (ai).

c. Requirements

- (1) Complete AO A1 Aviation Ordnance Course and the CNATT AO (C) Course at CNATT MARU, Cherry Point, NC.
- (2) Must obtain appropriate support equipment and/or material handling licensing upon initial unit assignment (Sgt to Pvt).
- (3) Marines who handle explosives must meet the criteria to be qualified and certified as per reference (ay).
- (4) Must obtain Incidental Motor Vehicle Operator Licensing for tactical vehicles up to 7-Ton MTRV (or equivalent).
- (5) Complete Naval Motor Vehicle and Railcar Inspection Course (AMMO-51) (A403611).
- (6) Must complete Incidental Motor Vehicle Licensing for HMMWV Tactical Vehicle.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
M04G3M6	Aviation Ordnance System Technician Marine Expeditionary	Cherry Point, NC

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
N23KJ42	Aviation Ordnance (AO) Apprentice Technical Training	Pensacola, FL
N23G3U2	Aviation Ordnanceman 'A' School	Pensacola, FL
M04G4C6	Aviation Ordnance Systems Technician F-18	Cherry Point, NC

d. Duties

(1) SSgt to Pvt:

(a) Performs IMA level maintenance on armament weapons support equipment (AWSE).

(b) Assembles and performs maintenance on air-launched missiles, and conventional munitions, as authorized.

(c) Performs IMA level maintenance on aircraft armament equipment.

(d) Identifies munitions by type, nomenclature, and explosive hazard. Identifies the hazard present and appropriate emergency response procedures for each type of munitions handled.

(e) Transports explosives utilizing assigned handling and transportation equipment.

(f) Employs appropriate safety precautions, security procedures, and record keeping practices for munitions.

(g) Conducts ammunition inventories and maintains stock records of lots/serial numbers.

(h) Performs operator tasks associated with Ordnance Information system (OIS) Ammunition Accounting and Management System.

(i) Perform IMA level maintenance on aircraft guns.

(j) Performs inventory management tasks associated with the Airborne Weapons Information System (AWIS) website.

(k) Prepares, packages, and certifies hazardous material for shipment.

(l) Certifies vehicles for transport of hazardous materials.

(2) SSgt to Cpl:

(a) Maintains records and distinguishes the different modifications on all models of missiles and conventional munitions assigned.

(b) Utilizes available technical and supply publications to obtain accurate and complete data for supply purposes.

(c) Perform inspections on the maintenance, storage, and shipment of explosives.

(d) Using ammunition stock and allowance lists/publications, prepares, and edits ammunition requisitions and takes requisition follow-up actions.

(e) Makes ammunition issues, prepares invoices, and custody records.

(f) Maintains files, prepares naval messages, and submits ammunition transactions.

(g) Performs the System Administrator tasks associated with Ordnance Information System (OIS) Ammunition Accounting and Management System.

(3) SSgt and Sgt:

(a) Establishes a training program for aviation ordnance technicians.

(b) Perform functions in the establishment operations of a conventional munitions storage area, advance base ammunition storage point, ready storage areas and Forward Arming and Refueling Points (FARP).

(c) Prepares Conventional/Ordnance Deficiency Reports, Explosive Event Reports, Explosive Mishap Reports, Technical Publication Deficiency reports, Product Quality Deficiency Reports, Missing Lost Stolen/ Recovered Ammunition Reports, and Engineering Investigation Requests, when appropriate.

(d) Perform Ammunition Stock Recording Section functions/tasks utilizing the Ordnance Information System (OIS).

(e) Determine the serviceability of ammunition and perform ammunition sentencing functions.

(f) Establish and supervise the operation of a Forward Arming and Refueling Points (FARP).

(g) Supervise operations in an ammunition assembly area.

(4) SSgt:

(a) Utilizes aviation ordnance administrative procedures necessary to establish and operate an IMA.

(b) Conducts administrative and material inspections of IMA activities.

(c) Prepares naval messages, orders, instructions, SOPs, and safety precautions.

(d) Manage the Ammunition Stock Recording System (ASRS).

e. Related Standard Occupational Classification (SOC) Title and Code

(1) Explosive Workers, Ordnance Handling Experts, and Blasters 47-5031.

(2) Maintenance and Repair Workers, General 49-9042.

f. Related Military Skill. Aircraft Ordnance Technician, 6531.

4. MOS 6591, Aviation Ordnance Chief (MGySgt to GySgt) PMOS

a. Summary. The Aviation Ordnance Chief supervises the establishment and functions of aviation ordnance activities. The Aviation Ordnance Chief assists the Aviation Ordnance Officer with the daily planning, conduct, and execution of the ordnance section, division, or department. They also serve as Staff Action Officers at the MARFOR, MEF, Wing, and HQMC levels, as well as select Naval and Joint Aviation Logistics/Acquisition Billets.

b. Prerequisites

(1) Security requirement: Secret security clearance eligibility (certain key billets require Top Secret security clearance eligibility).

(2) Must meet the medical requirements for Explosives Handlers and Explosives Vehicle Operators contained in reference (ai), Article 15-107.

c. Requirements

(1) Upon promotion to the rank of Gunnery Sergeant, is required to attend and successfully complete the Aviation Ordnance Officer Career Progression Course, Level 1 (N42G3N3) at NAS Whiting Field, FL.

(2) Marines who handle explosives must meet the criteria to be qualified and certified as per reference (ay).

(3) Upon promotion to the rank of Master Sergeant, should attend and successfully complete the Aviation Ordnance Logistics Managers Career Progression Level II Training Course (N42G4N3) at NAS Whiting Field, FL.

(4) Upon promotion to the rank of Master Gunnery Sergeant, should attend and successfully complete the Aviation Ordnance Managers Career Progression Level III Training Course (formerly Aviation Ordnance Officer Career Progression (AOOCP)), (N42G4M3) at NAS Whiting Field, FL.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
N42G3N3	Aviation Ordnance Officer Career Progression Level 1 (AOOCP)	Milton, FL

d. Duties

(1) Assists the aviation ordnance officer in managing the activities of aviation ordnance personnel in their duties and tasks.

(2) Continues supporting the enlisted Marines, 6502 Warrant Officers and Limited Duty Officers to reinforce the officer/enlisted team by providing leadership, instruction, training and mentorship in all matters pertaining to Aviation Ordnance, career progression and core values.

(3) Prepares orders, naval messages, instructions and SOPs, and safety precautions.

(4) Provides subject matters expertise in planning and implementing aviation ordnance functions.

(5) Provides authoritative representation and advocacy on joint/service staffs for aviation ordnance logistics and acquisition support.

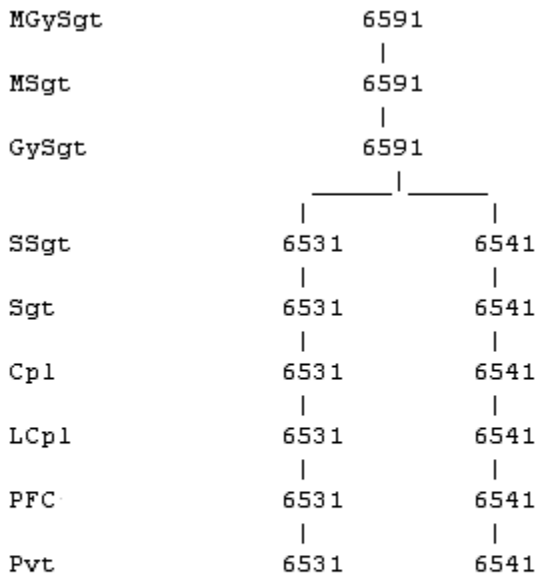
(6) Manages and monitors all matters pertaining to weapons, maintenance, support equipment, and aircraft type/model/series within your purview.

(7) At the Master Gunnery Sergeant level, functions as the Marine Aviation Logistics Squadron and Marine Air Group Ordnance Chief simultaneously.

(8) At the Master Gunnery Sergeant level plays an integral part in overall MOS manpower management. Key billet holders at the Wing/MARFORs will act as voting board members on the enlisted Executive Steering Committee in regards to slating Master Sergeant and Master Gunnery Sergeant Billets.

e. Related Standard Occupational Classification (SOC) Title and Code. First-Line Supervisors/Managers of Mechanics, Installers, and Repairers 49-1011.

f. Related Military Skill. None.



6500 Basic Aviation Ordnance Marine (Basic MOS)
 6531 Aircraft Ordnance Technician (PMOS)
 6541 Aviation Ordnance Systems Technician (PMOS)
 6591 Aviation Ordnance Chief (PMOS)

Figure 3-34.--Aviation Ordnance

MOS 6531, Aircraft Ordnance Technician (PMOS)

SSGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	OPFOR: Wing/Squadron SE: CNATT/RDTE/FIT/4TH MAW

SGT	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	OPFOR: Squadron SE: CNATT/RDTE/FIT/4TH MAW

CPL	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	OPFOR: Squadron SE: CNATT/RDTE/FIT/4TH MAW

LCPL	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	Apprentice Technical Training (ATT) AO A1 Aviation Ordnance Course T/M/S Aircraft Aviation Ordnance Technician Organizational Maintenance and Conventional Weapons Loading Course OPFOR: Squadron SE: 4th MAW

PFC	Required Training: Skill Progression: Skill Enhancement: MOS Assignment:	Apprentice Technical Training (ATT) AO A1 Aviation Ordnance Course T/M/S Aircraft Aviation Ordnance Technician Organizational Maintenance and Conventional Weapons Loading Course OPFOR: Squadron SE: 4th MAW

PVT	Required Training: Skill Progression: Skill Enhancement:	Apprentice Technical Training (ATT) AO A1 Aviation Ordnance Course T/M/S Aircraft Aviation Ordnance Technician Organizational Maintenance and Conventional Weapons Loading Course

Figure 3-34.--Aviation Ordnance

MOS Assignment: **OPFOR:** Squadron
 SE: 4th MAW

MOS 6541, Aviation Ordnance Systems Technician (PMOS)

SSGT Required Training:
 Skill Progression:
 Skill Enhancement:
 MOS Assignment: **OPFOR:** MALS/MARFOR
 SE: MCAS/CNATT/NWS/NOLSC/4th MAW

SGT Required Training:
 Skill Progression:
 Skill Enhancement: Ammunition Supply Administration
 Course
 MOS Assignment: **OPFOR:** MALS
 SE: MCAS/MCB/NWS/4th MAW/CNATT

CPL Required Training:
 Skill Progression:
 Skill Enhancement: Defense Packaging of Hazardous
 Material for Transportation
 MOS Assignment: **OPFOR:** MALS
 SE: MCAS/MCB/NWS/4th MAW

LCPL Required Training: Apprentice Technical Training (ATT)
 AO A1 Aviation Ordnance Course
 Aviation Ordnance Systems Technician
 Course
 Naval Motor Vehicle and Railcar
 Inspection Course
 Skill Progression:
 Skill Enhancement: Ammunition Administration Course
 Transportation and Storage of
 Hazardous Material for Transportation
 MOS Assignment: **OPFOR:** MALS
 SE: MCAS/MCB/NWS/4th MAW

PFC Required Training: Apprentice Technical Training (ATT)
 AO A1 Aviation Ordnance Course
 Aviation Ordnance Systems Technician
 Course
 Naval Motor Vehicle and Railcar
 Inspection Course
 Skill Progression:

Figure 3-34.--Aviation Ordnance (continued)

	Skill Enhancement:	Ammunition Administration Course
	MOS Assignment:	Transportation and Storage of Hazardous Material for Transportation OPFOR: MALS SE: MCAS/MCB/NWS/4th MAW

PVT	Required Training:	Apprentice Technical Training (ATT)
		AO A1 Aviation Ordnance Course
		Aviation Ordnance Systems Technician Course
	Skill Progression:	Naval Motor Vehicle and Railcar Inspection Course
	Skill Enhancement:	Ammunition Administration Course
	MOS Assignment:	Transportation and Storage of Hazardous Material for Transportation OPFOR: MALS SE: MCAS/MCB/NWS/4th MAW

<u>MOS 6591, Aviation Ordnance Chief (PMOS)</u>		
MGYSGT	Required Training:	
	Skill Progression:	Aviation Ordnance Managers Career Progression Course, Level III (formerly AOOCP)
	Skill Enhancement:	
	MOS Assignment:	OPFOR: AQD/MALS/MARFOR SE: HQMC/4th MAW

MSGT	Required Training:	
	Skill Progression:	Aviation Ordnance Managers Career Progression Course, Level III (formerly AOOCP)
	Skill Enhancement:	Defense Acquisitions University, Life Cycle Logistics and/or Program Management Coursework
	MOS Assignment:	OPFOR: SQD/MALS/MARFOR SE: MCAS/CNATT/CTF-53/CTF-73/CTF-73/ MAWTS/HQMC/OPNAV/MARCORSYSCOM (DET Charleston)

GYSGT	Required Training:	
	Skill Progression:	Aviation Ordnance Managers Career Progression Course, Level I
	Skill Enhancement:	Defense Acquisitions University, Life Cycle Logistics Coursework

Figure 3-34.--Aviation Ordnance (continued)

MOS Assignment: **OPFOR:** SQD/MALS/MAW
 SE: MCAS/CNATT/RDTE/FIT/MAWTS/NOLSC/4th
 MAW/TECOM/OPNAV/MCB/NWS/BIC/CNAF/CNAL/FFC/
 NAVAIR PMA-260/NAVAIR PEO (U&W), Naval
 Safety Center/OPNAV (China Lake)
