CHAPTER 12



NAVAL AIRCREWMAN (MECHANICAL) (AWF)

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

NAVAL AIRCREWMEN (MECHANICAL) (AWF)



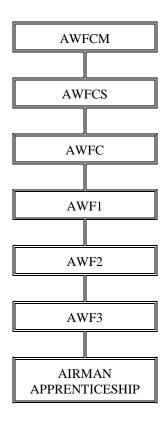
SCOPE OF RATING

Naval Aircrewmen (Mechanical) (AWF) are members of a fixed wing / tilt rotor integrated tactical crew aboard CMV-22, C-2, C-12, C-20, C-26, C-37, C-40, C-130, E-6, P-3 aircraft, and various Unmanned Aerial Vehicles (UAV); performs in-flight and ground duties as aircraft Flight Engineer/ Crew Chief, Loadmaster/Second Loadmaster, Reel Operator, Aircrew Readiness Manager, Unmanned Aircraft Systems (UAS) Operator; calculate Weight and Balance (W&B) and aircraft performance, perform aircraft system maintenance and operation, system rigging, Aircrew administration, Flight/ Ground training, Naval Air Logistics scheduling, cargo movement, Medical Evacuations (MEDEVAC), passenger transport and safety, equipment handling procedures, emergency procedures, utilize small arms, employ Dual Trailing Wire Antenna (DTWA) winch system, and support Joint Special Warfare operations; attain squadron aircrew qualifications and certifications to effectively sustain global warfare readiness.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) in Chapter 12.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1(series).

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title Air Warfare Systems Engineer Job Code 001593

Job FamilyNOCShort Title (30 Characters)Short Title (14 Characters)Military SpecificTBDAIR WARFARE SYSTEMS ENGINEERNAC AW SYS ENG

Pay Plan Career Field Other Relationships and Rules

Enlisted AWF NEC GXXX Series and other NECs as assigned

Job Description

Air Warfare Systems Engineers are members of fixed wing / tilt rotor integrated tactical crews aboard C-2, C-26, C-130, C-40, P-3, E-6 Gulfstream aircraft, or Tactical Operations Center/Mobile Tactical Operations Center (TOC/MTOC); perform primary in-flight and ground duties; perform maintenance, weight and balance (W&B), and rigging; perform aircrew administration, flight/ground training, internal/external cargo movement, Medical Evacuations (MEDEVAC), and passenger transport; conduct small arms and Naval Special Warfare (NSW) operations by using Unmanned Aerial Vehicles (UAV); perform aircrew duties that contribute directly to aircrew operations, training, and administration for the purposes of attaining and maintaining squadron aircrew qualifications and certifications; perform aircraft systems, passenger safety and equipment handling procedures in accordance with federal and military regulations for passenger transport, emergency procedures, and aircraft equipment.

DoD Relationship

O*NET Relationship

 Group Title
 DoD Code
 Occupation Title
 SOC Code
 Job Family

 Air Crew, General
 105000
 Air Crew Members
 55-3011.00
 Military Specific

<u>Skills</u> <u>Abilities</u>

 Operation and Control
 Written Comprehension

 Critical Thinking
 Deductive Reasoning

 Systems Analysis
 Near Vision

 Judgment and Decision Making
 Problem Sensitivity

 Coordination
 Written Expression

 Quality Control Analysis
 Information Ordering

 Quality Control Analysis
 Information Ordering

 Equipment Maintenance
 Originality

 Operation Monitoring
 Manual Dexterity

Management of Material Resources Multi-limb Coordination

Complex Problem Solving Oral Expression

AIRCRAFT SYSTEM OPERATIONS

<u>Paygrade</u> E4	<u>Task Type</u> NON-CORE	<u>Task Statements</u> Adjust aircraft engine power settings
E4	NON-CORE	Adjust antenna reel length
E4	NON-CORE	Align Inertial Navigation Systems (INS)
E4	CORE	Conduct aircraft system testing
E5	CORE	Conduct Functional Check Flight (FCF)
E4	NON-CORE	Initialize Global Positioning Satellite (GPS) equipment
E4	CORE	Maintain aircraft fuel load balance
E4	CORE	Maintain aircraft pressurization
E4	CORE	Maintain environmental control systems
E4	CORE	Monitor aircraft electrical systems
E4	NON-CORE	Operate aircraft engines
E4	CORE	Operate aircraft hydraulic systems
E4	CORE	Operate aircraft pneumatic systems
E4	NON-CORE	Operate anti-icing and de-icing systems
E4	NON-CORE	Operate dual trailing wire antenna
E4	NON-CORE	Operate liquid cooling systems
E4	NON-CORE	Operate propeller systems

AIRCREW ADMINISTRATION			
<u>Paygrade</u> E5	Task Type CORE	<u>Task Statements</u> Administer Naval Air Training and Operating Procedures Standardization (NATOPS) programs	
E6	CORE	Develop aircrew course curriculum	
E6	CORE	Develop training readiness matrix	
E5	CORE	Record individual flight time summaries	
		AIRCREW DUTIES	
<u>Paygrade</u> E4	<u>Task Type</u> NON-CORE	<u>Task Statements</u> Assign aircraft ditching stations	
E4	CORE	Brief passengers on safety procedures	
E4	CORE	Calculate fuel requirements	
E4	NON-CORE	Communicate with cargo-loading hand-signals	
E4	CORE	Compute aircraft load limitations	
E4	CORE	Compute aircraft Weight and Balances (W&B)	
E4	CORE	Compute take off, landing, and in-flight performance	
E4	NON-CORE	Conduct Night Vision Device (NVD) operations	
E4	CORE	Configure aircraft for cargo operations	
E4	CORE	Inspect aircraft and personal survival equipment	
E4	NON-CORE	Inspect Search and Rescue (SAR) equipment	
E4	CORE	Inspect small arms	
E4	NON-CORE	Jettison cargo	
E4	CORE	Operate Auxiliary Power Units (APU)	
E4	CORE	Operate emergency equipment	
E4	CORE	Operate radios and Internal Communication Systems (ICS)	
E4	CORE	Operate small arms	
E4	CORE	Perform aircraft emergency procedures	
E4	NON-CORE	Perform Emergency Destruction Plan (EDP) procedures	
E4	NON-CORE	Perform Emergency Medical Evacuations (MEDEVAC)	
E4	NON-CORE	Perform expeditious cargo offload	
E4	CORE	Perform in-flight status system checks	
E4	CORE	Perform pre- and post-flight aircraft inspections	
E4	NON-CORE	Report visual contacts	
E4	CORE	Restrain cargo and equipment	
		AIRCREW TRAINING	
<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Administer aircrew training programs	
E5	CORE	Conduct Naval Air Training and Operating Procedures Standardization (NATOPS) flight and ground training	

Develop Naval Air Training and Operating Procedures Standardization (NATOPS) training materials

CORE

E5

AIRCREW TRAINING (CONT'D)			
<u>Paygrade</u> E5	<u>Task Type</u> NON-CORE	Task Statements Develop trainer and simulator scenarios	
E5	CORE	Evaluate aircrew qualification and readiness programs	
E5	CORE	Facilitate Crew Resource Management (CRM) programs	
E5	NON-CORE	Operate Weapons Systems Trainer (WST) or Operational Flight Trainer (OFT)	
E5	NON-CORE	Perform warfare training exercises	
E5	CORE	Update aircrew course curriculum	
		MAINTENANCE ADMINISTRATION	
Paygrade	Task Type	Task Statements	
E6	CORE	Brief maintenance operations (maintenance control and work center)	
E6	CORE	Conduct Functional Flight Check (FCF) briefs and debriefs	
E6	CORE	Conduct maintenance meetings and briefs	
E4	CORE	Document aircraft discrepancies	
E4	CORE	Document aircraft maintenance	
E7	CORE	Manage cannibalization actions	
E5	CORE	Manage Naval Aviation Maintenance Programs (NAMP)	
E6	CORE	Manage scheduled and unscheduled maintenance	
E5	CORE	Manage workload reports	

(OOMA NALCOMIS) E6 CORE Release aircraft safe for flight

CORE

CORE

CORE

CORE

E7 E7

E6

E4

E6 CORE Review Maintenance Data Reports (MDR)

E4 CORE Review monthly maintenance plans
E6 CORE Schedule aircraft for maintenance

E7 CORE Schedule aircraft for phase/Planned Maintenance Intervals (PMI)

Manage X-RAY reports

Monitor aircraft records for compliance

Monitor Naval Aviation Maintenance Programs (NAMP)

Process maintenance actions with Optimized Organizational Maintenance

Activity Naval Aviation Logistics Command Managed Information System

E6 CORE Schedule aircraft inspections

E6 CORE Screen Visual Information Display System/Maintenance Action Forms

(VIDS/MAF)

E5 CORE Supervise scheduled and unscheduled maintenance

E5 CORE Update Monthly Maintenance Plans (MMP)
E6 CORE Verify aircraft logbooks

E6 CORE Verify Technical Directive (TD) compliance

MAINTENANCE SUPPORT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Evaluate aircraft ground performance
E4	CORE	Inspect aircraft and aircraft components for corrosion

MAINTENANCE SUPPORT (CONT'D)

		MAINTENANCE BUITORT (CONT D)
Paygrade E4	Task Type CORE	Task Statements Inventory tools
E4	NON-CORE	Maintain air refueling systems
E4	CORE	Maintain aircraft flight databases
E4	CORE	Maintain aircraft hydraulic systems
E4	CORE	Maintain aircraft ice control systems
E4	CORE	Maintain automatic flight control systems
E4	CORE	Maintain environmental systems
E4	NON-CORE	Maintain extended range fuel tanks
E4	CORE	Maintain flight control systems
E4	CORE	Maintain landing gear assemblies
E4	CORE	Maintain navigation systems
E4	CORE	Maintain pneumatic systems
E4	CORE	Maintain pressurization systems
E4	CORE	Operate Support Equipment (SE)
E4	CORE	Perform aircraft conditional inspections
E4	CORE	Perform aircraft daily inspections
E4	CORE	Perform aircraft ground handling operations
E4	CORE	Perform aircraft servicing procedures
E4	CORE	Perform aircraft special inspections
E4	CORE	Perform aircraft turnaround inspections
E4	CORE	Perform corrosion prevention procedures
E4	CORE	Perform preservation and depreservation procedures
E5	CORE	Perform Quality Assurance (QA) inspections
E4	CORE	Perform Support Equipment (SE) inspections (e.g., daily, preoperational, etc.)
E4	CORE	Supervise aircraft towing and pushback operations
E4	CORE	Treat aircraft corrosion

OPERATIONS AND LOGISTICS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Conduct air logistics training
E6	CORE	Coordinate aircraft availability for long and short range planning
E4	NON-CORE	Coordinate cargo transfers
E4	CORE	Coordinate flight packet requirements
E5	NON-CORE	Coordinate Operating Areas (OPAREA) schedules with external agencies
E7	NON-CORE	Coordinate tactical exercises
E5	CORE	Determine aircrew readiness requirements for individuals and crews
E4	CORE	Document logistics flight records
E4	CORE	Perform aircrew mission briefs
E4	CORE	Perform flight and mission planning
E4	CORE	Perform pre- and post-deployment procedures

OPERATIONS AND LOGISTICS (CONT'D)

<u>Paygrade</u> E5	<u>Task Type</u> NON-CORE	Task Statements Plan Night Vision Device (NVD) operations
		, , ,
E6	NON-CORE	Prepare country clearance messages
E5	CORE	Prepare flight hour reports
E5	CORE	Prepare flight schedules
E5	CORE	Report aircraft mission capability status
E5	NON-CORE	Submit airlift requests
E7	CORE	Submit logistics requests
E5	NON-CORE	Supervise alert aircraft procedures

SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS

Paygrade	Task Type	<u>Task Statements</u>
E5	NON-CORE	Conduct Naval Special Warfare (NSW) training
E5	NON-CORE	Configure aircraft for Special Warfare Operations (SPECOPS)
E7	NON-CORE	Coordinate Naval Special Warfare (NSW) operations
E5	NON-CORE	Maintain Unmanned Aerial Vehicles (UAV)
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) camera systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) electrical systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) fuel systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) navigation systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) radar systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) radio systems
E5	NON-CORE	Perform certification inspections on aviation combat systems
E5	NON-CORE	Perform Naval Special Warfare (NSW) operations
E5	NON-CORE	Perform Unmanned Aerial Vehicle (UAV) pre and post-flight inspections
E5	NON-CORE	Pilot Unmanned Aerial Vehicles (UAV)
E6	NON-CORE	Plan Naval Special Warfare (NSW) operations

Job Title Aircrew Readiness Manager (Mechanical)

Job Code 002539

Job Family NOC Short Title (30 Characters) Short Title (14 Characters)

Transportation and Material Moving TBD ACREW READINESS MGR MECH ARM (MECH)

Pay Plan Career Field Other Relationships and Rules

Enlisted AWF NEC GXXX Series and other NECs as assigned

Job Description

Aircrew Readiness Managers (Mechanical) are crucial and integral members of staffs, operational commands, and squadrons; coordinate the operational, administrative, and aircrew scheduling functions; administer and manage training programs and resources for naval aircrew, manage standardization of aircrew training programs to enhance proficiency and readiness, and coordinate all aspects of aircrew training; administer and direct the Naval Air Training and Operating Procedures Standardization (NATOPS) and Search and Rescue (SAR) programs; administer and direct tactics, training and readiness, ordnance and weapons, and aircrew training. As program managers they analyze training resource requirements, review and approve contract options for new training devices and programs, develop and revise curriculum, incorporate and initiate new aircrew training programs, manage student quotas, qualifications and certifications, and coordinate aircrew physical fitness and health program initiatives.

DoD Relationship O*NET Relationship

Group Title DoD Code Occupation Title SOC Code Job Family

Air Crew, General 105000 Airfield Operations Specialists 53-2022.00 Transportation and Material

Moving

<u>Skills</u> <u>Abilities</u>

Critical Thinking Deductive Reasoning
Instructing Written Comprehension

Complex Problem Solving Originality

Coordination Problem Sensitivity
Judgment and Decision Making Written Expression
Monitoring Fluency of Ideas
Writing Oral Expression
Learning Strategies Inductive Reasoning
Management of Material Resources Memorization
Management of Personnel Resources Category Flexibility

AIRCREW ADMINISTRATION

Paygrade E5	Task Type CORE	Task Statements Administer Naval Air Training and Operating Procedures Standardization (NATOPS) programs
E7	CORE	Conduct Flight Order Audit Boards (FOAB)
E7	CORE	Determine aircrew production requirements
E6	CORE	Develop aircrew course curriculum
E6	CORE	Develop training readiness matrix
E5	CORE	Record individual flight time summaries
E7	CORE	Verify training and readiness matrices

AIRCREW TRAINING

<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Administer aircrew training programs
E7	NON-CORE	Brief fleet aviation training requirements to upper echelon
E5	CORE	Conduct Naval Air Training and Operating Procedures Standardization (NATOPS) flight and ground training
E7	CORE	Define aircrew production requirements

AIRCREW TRAINING (CONT'D)

<u>Paygrade</u> E5	Task Type CORE	<u>Task Statements</u> Develop Naval Air Training and Operating Procedures Standardization (NATOPS) training materials
E5	NON-CORE	Develop trainer and simulator scenarios
E5	CORE	Evaluate aircrew qualification and readiness programs
E5	CORE	Facilitate Crew Resource Management (CRM) programs
E5	NON-CORE	Perform warfare training exercises
E5	CORE	Update aircrew course curriculum

OPERATIONS AND LOGISTICS

<u>Paygrade</u> E7	<u>Task Type</u> NON-CORE	Task Statements Brief fleet acquisition programs
E4	NON-CORE	Conduct air logistics training
E6	CORE	Coordinate aircraft availability for long and short range planning
E5	NON-CORE	Coordinate Operating Areas (OPAREA) schedules with external agencies
E7	NON-CORE	Coordinate tactical exercises
E7	NON-CORE	Coordinate training systems acquisition contracts
E5	CORE	Determine aircrew readiness requirements for individuals and crews
E4	CORE	Document logistics flight records
E7	NON-CORE	Manage Operational Target (OPTAR) budgets
E4	CORE	Perform aircrew mission briefs
E4	CORE	Perform flight and mission planning
E5	NON-CORE	Plan Night Vision Device (NVD) operations
E6	NON-CORE	Prepare country clearance messages
E5	CORE	Prepare flight hour reports
E5	CORE	Prepare flight schedules
E7	NON-CORE	Process temporary flight order requests
E5	CORE	Report aircraft mission capability status
E5	NON-CORE	Submit airlift requests
E7	CORE	Submit logistics requests
E5	NON-CORE	Supervise alert aircraft procedures

SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS

Paygrade	Task Type	Task Statements
E6	NON-CORE	Plan Naval Special Warfare (NSW) operations