CHAPTER 1



AVIATION BOATSWAIN'S MATE (FUELS) (ABF)

NAVPERS 18068F-1E Change 96

Updated: October 2023

TABLE OF CONTENTS AVIATION BOATSWAIN'S MATE (FUELS) (ABF)

SCOPE OF RATING	ABF-3
GENERAL INFORMATION	ABF-4
AVIATION FUELS BELOW DECKS OPERATIONS TECHNICIAN	ABF-5
BELOW DECKS SYSTEM MAINTENANCE	ABF-5
BELOW DECKS SYSTEM OPERATIONS	ABF-5
FLIGHT/HANGAR DECK OPERATIONS	ABF-6
QUALITY SURVEILLANCE	ABF-6
TECHNICAL ADMINISTRATION	ABF-7
AVIATION FUELS FLIGHT DECK OPERATIONS TECHNICIAN	ABF-8
BELOW DECKS SYSTEM OPERATIONS	ABF-8
FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE	ABF-8
FLIGHT/HANGAR DECK OPERATIONS	ABF-9
QUALITY SURVEILLANCE	ABF-9
TECHNICAL ADMINISTRATION	ABF-9
AVIATION FUELS SHORE BASED OPERATIONS TECHNICIAN	ABF-11
BELOW DECKS SYSTEM OPERATIONS	ABF-11
FLIGHT/HANGAR DECK OPERATIONS	ABF-11
QUALITY SURVEILLANCE	ABF-12
SHORE BASED REFUELING	ABF-12
TECHNICAL ADMINISTRATION	ABF-12

NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION BOATSWAIN'S MATE (FUELS) (ABF)



SCOPE OF RATING

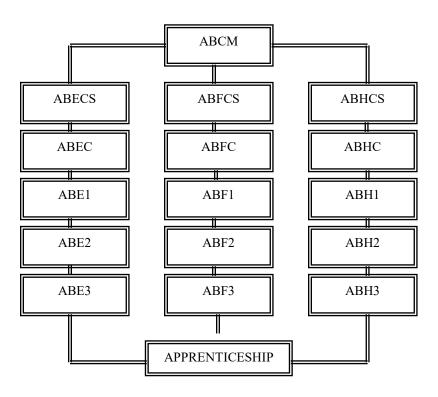
Aviation Boatswain's Mates (AB) operate, maintain, and perform organizational maintenance on catapults, arresting gear, barricades, and associated flight deck launching and recovery equipment; operate and service aircraft ground-handling equipment and machinery; operate and service aircraft crash, firefighting, and rescue equipment; handle aircraft afloat and ashore; operate, maintain, and repair aviation fueling, defueling, lubricating oil, and inert gas systems; perform crash rescue, firefighting, crash removal, and damage control duties; and perform administrative duties, implement training initiatives, and oversee/maintain divisional spaces.

Aviation Boatswain's Mates (Fuels) (ABF) operate, maintain, and perform organizational maintenance on aviation fueling and lubricating oil systems within Carrier, Volplane, Nuclear (CVN), Landing Helicopter Assault (LHA), Landing Helicopter Dock (LHD), Landing Platform Dock (LPD), and air capable platforms including aviation fuel and lubricating oil service stations and pump rooms, piping, valves, pumps, tanks, and portable equipment related to the fuel system; operate, maintain, and repair valves and piping of purging and protective systems within the air department's spaces aboard ship; supervise the operation and servicing of fuel farms and equipment associated with the fueling and defueling of aircraft ashore and afloat; operate and service motorized fueling equipment; maintain fuel quality surveillance and control in aviation fuel systems ashore and afloat; train, direct, and supervise firefighting crews, fire rescue teams, and damage control parties in assigned fuel and lubricating oil spaces; and observe and enforce fuel handling safety precautions.

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 1.

GENERAL INFORMATION

CAREER PATTERN



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

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.

Aviation Fuels Below Decks Operations Technician

Job Code 001030

Job FamilyNOCShort Title (30 Characters)Short Title (14 Characters)Transportation and Material MovingTBDAVFUELS BLWDECK OPS TECHFUEL BDCK TECH

<u>Pay Plan</u> <u>Career Field</u> <u>Other Relationships and Rules</u>

Enlisted ABF NEC DXXX and 7XXX series and other NECs as assigned

Job Description

Aviation Fuels Below Decks Operations Technicians ensure, supervise, and manage the safe receipt, transfer, purification and issue of JP-5 aviation fuel to various locations throughout the ship; take samples; sound tanks; operate auxiliary, service, transfer, and stripping systems to perform various functions; perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

DoD Relationship O*NET Relationship

Group TitleDoD CodeOccupation TitleSOC CodeJob FamilyMissile Fuel and Petroleum182100Pump Operators, Except Wellhead53-7072.00Transportation and Material
Moving

Skills Abilities Equipment Selection Problem Sensitivity Monitoring Written Comprehension Operation Monitoring Response Orientation Critical Thinking Control Precision Judgment and Decision Making Memorization Management of Material Resources Hearing Sensitivity Quality Control Analysis Information Ordering Writing Near Vision Mathematics Number Facility Management of Personnel Resources Finger Dexterity

BELOW DECKS SYSTEM EQUIPMENT MAINTENANCE

<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Coordinate below decks systems equipment repairs
E4	CORE	Perform below decks systems equipment planned maintenance
E4	CORE	Perform below decks systems equipment repairs
E4	CORE	Perform below decks systems preventive/corrective maintenance using procedures
E6	CORE	Supervise below decks systems equipment repair
E5	CORE	Supervise below decks systems preventive/corrective maintenance using procedures

BELOW DECKS SYSTEM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Align JP-5 transfer system for Underway Replenishment (UNREP)
E7	CORE	Approve tank sequences
E5	CORE	Conduct below decks systems space inspections
E6	CORE	Coordinate Underway Replenishment (UNREP) stations
E4	CORE	Detect below decks systems material deficiencies
E4	CORE	Detect pump room equipment deficiencies

BELOW DECKS SYSTEM OPERATIONS (CONT'D)

<u>Paygrade</u> E6	Task Type CORE	Task Statements Manage below decks personnel routines
E7	CORE	Manage below decks systems operations
E7	CORE	Manage fuel system liquid loads
E5	CORE	Monitor ballasting and de-ballasting system operations
E4	CORE	Monitor catapult lube oil system operations
E5	CORE	Monitor fuel transfer system operations
E5	CORE	Monitor JP-5 auxiliary fuel systems operations
E5	CORE	Monitor JP-5 reclamation system operations
E5	CORE	Monitor JP-5 service system operations
E5	CORE	Monitor JP-5 stripping system operations
E5	CORE	Monitor JP-5 transfer system for Underway Replenishment (UNREP)
E4	CORE	Perform ballasting and de-ballasting system operations
E4	CORE	Perform below decks systems casualty/emergency drills
E4	CORE	Perform catapult lube oil system operations
E4	CORE	Perform filter room operations
E4	CORE	Perform JP-5 below decks auxiliary fuel systems operations
E4	CORE	Perform JP-5 reclamation system operations
E4	CORE	Perform JP-5 service system operations
E4	CORE	Perform JP-5 stripping system operations
E4	CORE	Perform JP-5 transfer system operations
E4	CORE	Perform tank sounding
E5	CORE	Prepare fuel sounding reports
E4	CORE	Prepare sponson for Underway Replenishment (UNREP)
E6	CORE	Supervise below decks systems casualty/emergency drills
E7	CORE	Supervise fuel offload
E6	CORE	Supervise fuel system liquid loads
E6	CORE	Supervise sponson status of Underway Replenishment (UNREP)
E7	CORE	Verify sounding report accuracy
		FLIGHT/HANGAR DECK OPERATIONS
<u>Paygrade</u> E4	<u>Task Type</u> CORE	<u>Task Statements</u> Perform flight/hangar deck fuel system casualty/emergency drills
		QUALITY SURVEILLANCE
<u>Paygrade</u> E4	Task Type CORE	Task Statements Determine fuel characteristics
E4	CORE	Obtain appropriate sample for below decks fueling systems
E4	CORE	Perform Quality Surveillance (QS) tests
E5	CORE	Supervise aviation fuel Quality Surveillance (QS) tests

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements
E5	CORE	Input Organizational Maintenance Management System (OMMS) job data
E6	CORE	Maintain aviation fuels accountability logs and records
E7	NON-CORE	Manage below decks manning requirements
E6	CORE	Manage below decks training programs
E7	CORE	Manage Ship Operation Management System (SOMS)
E7	CORE	Verify Current Ships Maintenance Plans (CSMP)
E6	CORE	Verify Organizational Maintenance Management System (OMMS) jobs

Job Title Aviation Fuels Flight Deck Operations Technician

Job Code 001085

Job FamilyNOCShort Title (30 Characters)Short Title (14 Characters)Installation, Maintenance, and RepairTBDAVFUELS FLTDECK OPS TECHFUEL FLT DECK

Pay Plan Career Field Other Relationships and Rules

Enlisted ABF NEC DXXX and 7XXX series and other NECs as assigned

Job Description

Aviation Fuels Flight Deck Operations Technicians ensure, supervise, and manage the safe receipt, transfer and issue of JP-5 aviation fuel to various locations throughout the ship; take samples; perform Quality Surveillance (QS) of fuels; sound tanks; align and operate flight deck fueling stations; fuel and defuel aircraft and Support Equipment (SE); perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

DoD Relationship O*NET Relationship

Group TitleDoD CodeOccupation TitleSOC CodeJob FamilyMissile Fuel and Petroleum182100Maintenance Workers, Machinery49-9043.00Installation, Maintenance, and Repair

Skills Monitoring Problem Sensitivity Operation and Control Reaction Time **Equipment Selection** Written Comprehension Operation Monitoring Memorization Critical Thinking Inductive Reasoning Management of Personnel Resources Information Ordering Judgment and Decision Making Hearing Sensitivity Management of Material Resources Near Vision Quality Control Analysis Selective Attention Reading Comprehension Finger Dexterity

BELOW DECKS SYSTEM OPERATIONS

Task Type	Task Statements
CORE	Coordinate Underway Replenishment (UNREP) stations
CORE	Monitor JP-5 auxiliary fuel systems operations
CORE	Monitor JP-5 service system operations
CORE	Perform tank sounding
CORE	Prepare sponson for Underway Replenishment (UNREP)
CORE	Supervise fuel offload
CORE	Supervise fuel system liquid loads
CORE	Supervise sponson status of Underway Replenishment (UNREP)
CORE	Verify sounding report accuracy
	CORE CORE CORE CORE CORE CORE CORE CORE

FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE

Paygrade	Task Type	Task Statements
E5	CORE	Coordinate flight/hangar deck fuel system equipment repairs
E4	CORE	Perform aviation fuels flight/hangar deck equipment planned maintenance
E4	CORE	Perform flight/hangar deck equipment repairs
E4	CORE	Perform flight/hangar deck preventive/corrective maintenance using procedures
E6	CORE	Supervise flight/hangar deck equipment repair using procedures

FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE (CONT'D)

FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE (CONT'D)			
<u>Paygrade</u> E6	<u>Task Type</u> CORE	<u>Task Statements</u> Supervise flight/hangar deck fuel system casualty/emergency drills	
E5	CORE	Supervise flight/hangar deck preventive/corrective maintenance using	
LS	COIL	procedures	
		FLIGHT/HANGAR DECK OPERATIONS	
<u>Paygrade</u> E5	Task Type CORE	<u>Task Statements</u> Conduct flight/hangar deck station inspections	
E4	CORE	Defuel aircraft	
E4	CORE	Detect fueling stations equipment deficiencies	
E4	CORE	Detect fueling stations material deficiencies	
E7	CORE	Manage aircraft emergency defueling operations	
E6	CORE	Manage flight deck personnel routines	
E7	CORE	Manage flight/hangar deck fueling operations	
E4	CORE	Monitor aircraft fueling stations alignments	
E4	CORE	Perform flight deck hot refueling operations	
E4	CORE	Perform flight/hangar deck cold refueling operations	
E4	CORE	Perform flight/hangar deck fuel system casualty/emergency drills	
E4	CORE	Perform flight/hangar deck fuel systems auxiliary operations	
E4	CORE	Perform flight/hangar deck station operations	
E4	CORE	Perform Motor Gasoline (MOGAS) issue	
E5	CORE	Perform Motor Gasoline (MOGAS) onloading/offloading	
E5	CORE	Supervise aircraft defueling operations	
E5	CORE	Supervise aircraft-to-aircraft fuel transfers	
E5	CORE	Supervise emergency aircraft defueling using procedures	
E5	CORE	Supervise flight deck hot refueling operations	
E5	CORE	Supervise flight/hangar deck cold refueling operations	
E5	CORE	Supervise Motor Gasoline (MOGAS) issue	
E7	CORE	Supervise Motor Gasoline (MOGAS) onloading/offloading	
E5	CORE	Supervise refueling crews operations	
		QUALITY SURVEILLANCE	
<u>Paygrade</u> E4	<u>Task Type</u> CORE	Task Statements Determine fuel characteristics	
E6	CORE	Manage fuels Quality Surveillance (QS) team routine	
E4	CORE	Obtain appropriate sample for laboratory analysis from fueling stations/sponsons	
E4	CORE	Perform Quality Surveillance (QS) tests	
E5	CORE	Supervise aviation fuel Quality Surveillance (QS) tests	
		TECHNICAL ADMINISTRATION	
<u>Paygrade</u> E5	<u>Task Type</u> CORE	<u>Task Statements</u> Input Organizational Maintenance Management System (OMMS) job data	
E6	CORE	Maintain aviation fuels accountability logs and records	

TECHNICAL ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E7	CORE	Manage flight deck manning requirements
E6	CORE	Manage flight/hangar deck training programs
E7	CORE	Manage Ship Operation Management System (SOMS)
E7	CORE	Validate accuracy of Quality Surveillance (QS) logs
E7	CORE	Verify Current Ships Maintenance Plans (CSMP)
E6	CORE	Verify Organizational Maintenance Management System (OMMS) jobs

Job Title Job Code 001140

Aviation Fuels Shore Based Operations Technician

NOC TBD **Short Title (30 Characters) Short Title (14 Characters)** Transportation and Material Moving AVFUELS ASHORE OPS TECH FUEL SHORE TEC

Pay Plan Career Field Other Relationships and Rules

Enlisted NEC DXXX and 7XXX series and other NECs as assigned ABF

Job Description

Aviation Fuels Shore Based Operations Technicians ensure, supervise, and manage the safe receipt, transfer and issue of JP-5 aviation fuel to assigned and transient aircraft, as well as support equipment; take samples; sound tanks; coordinate refueling points; perform refuel and defuel operations; provide fuel for Jet Test facilities; conduct Quality Surveillance (QS) checks on fuel, aligning service, operating transfer, and stripping systems to perform various functions; perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

DoD Relationship O*NET Relationship

-		-		
Group Title	DoD Code	Occupation Title	SOC Code	Job Family
Missile Fuel and Petroleum	182100	Pump Operators, Except Wellhead	53-7072.00	Transportation and Material
		Pumpers		Moving

Skills Abilities Operation and Control Problem Sensitivity Reaction Time Monitoring **Equipment Selection** Selective Attention Memorization Operation Monitoring Equipment Maintenance Near Vision Quality Control Analysis Written Comprehension Reading Comprehension Arm-Hand Steadiness Writing Finger Dexterity

Critical Thinking Number Facility Mathematics Category Flexibility

BELOW DECKS SYSTEM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Perform tank sounding
E5	CORE	Prepare fuel sounding reports
E6	CORE	Supervise fuel system liquid loads
E7	CORE	Verify sounding report accuracy

FLIGHT/HANGAR DECK OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Detect fueling stations equipment deficiencies
E4	CORE	Detect fueling stations material deficiencies
E7	CORE	Manage aircraft emergency defueling operations
E4	CORE	Monitor aircraft fueling stations alignments
E5	CORE	Supervise aircraft-to-aircraft fuel transfers
E5	CORE	Supervise emergency aircraft defueling using procedures
E5	CORE	Supervise refueling crews operations

QUALITY SURVEILLANCE

Paygrade	Task Type	Task Statements
E4	CORE	Determine fuel characteristics
E6	CORE	Manage fuels Quality Surveillance (QS) team routine
E4	CORE	Obtain appropriate sample for laboratory analysis from fueling stations/sponsons
E4	CORE	Perform Quality Surveillance (QS) tests
E5	CORE	Supervise aviation fuel Quality Surveillance (QS) tests

SHORE BASED REFUELING

Paygrade	Task Type	Task Statements
E4	CORE	Perform shore based defueling operations
E4	CORE	Perform shore based direct refueling operations
E4	CORE	Perform shore based equipment maintenance
E4	CORE	Perform shore based equipment planned maintenance
E4	CORE	Perform shore based mobile refueling operations
E5	CORE	Supervise shore based defueling operations
E5	CORE	Supervise shore based direct refueling operations
E5	CORE	Supervise shore based mobile refueling operations
E5	CORE	Supervise shore based preventative/corrective maintenance using procedures
E5	CORE	Verify shore facility fuel station pressure gauges

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	Task Type	Task Statements
E6	CORE	Maintain aviation fuels accountability logs and records
E7	CORE	Validate accuracy of Quality Surveillance (QS) logs