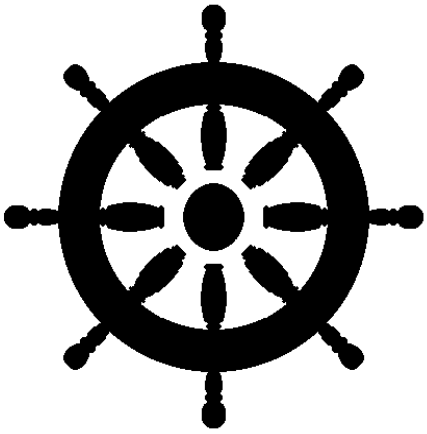
CHAPTER 66



QUARTERMASTER
(QM)

NAVPERS 18068F-66F
Change 102

Updated: April 2025
Event-Based Review

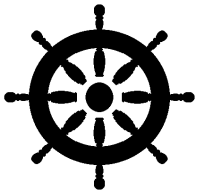
TABLE OF CONTENTS
QUARTERMASTER (QM)

SCOPE OF RATING	**QM-3**
GENERAL INFORMATION	**QM-4**
NAVIGATION ADMINISTRATOR	**QM-5**
CELESTIAL NAVIGATION	QM-5
COMMUNICATIONS	QM-5
EELECTICAL SYSTEMS NAVIGATION	QM-6
EQUIPMENT ADMINISTRATION	QM-6
LOOKOUT AND SIGNALING	QM-6
NAVIGATION	QM-66
PLOTTING	QM-7
TECHNICAL ADMINISTRATION	QM-8
NAVIGATION SPECIALIST	**QM-10**
CELESTIAL NAVIGATION	QM-10
COMMUNICATIONS	QM-11
ELECTRONIC SYSTEMS OPERATIONS	QM-11
EQUIPMENT ADMINISTRATION	QM-11
LOOKOUT AND SIGNALING	QM-11
NAVIGATION	QM-11
PLOTTING	QM-13
TECHNICAL ADMINISTRATION	QM-13
NAVIGATION MANAGER	**QM-14**
ELECTONIC SYSTEM OPERATIONS	QM-14
EQUIPMENT ADMINISTRATION	QM-14
LOOKOUT AND SIGNALING	QM-15
NAVIGATION	QM-15
PLOTTING	QM-15
TECHNICAL ADMINISTRATION	QM-15

NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

QUARTERMASTER (QM)



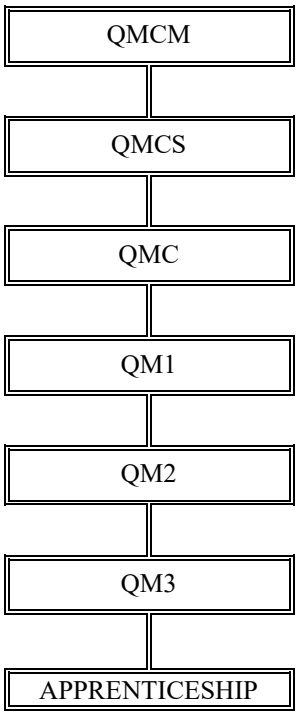
SCOPE OF RATING

Quartermasters (QM)) stand watch as assistants to the Officer of the Deck (OOD) and the Navigator; serve as Helmsman; perform ship control, navigation, and bridge watch duties; procure, correct, use, and stow navigational and oceanographic publications and charts; maintain navigational instruments and keep navigational time; perform weather data observations and data encoding; perform tactical communications using visual, audible, and electronic methods; and render honors and ceremonies In Accordance With (IAW) National observances and foreign customs.

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 66.

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.

Job Title **Job Code**

Navigation Administrator 003743

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Transportation and Material Moving	TBD	NAVIGATION ADMINISTRATOR	NAVIGATN ADMIN

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	QM	NEC WXXX Series and other NECs as assigned

Job Description

Navigation Administrators provide navigation expertise to shipboard personnel; serve as advisors by providing actionable navigation recommendations during unusual navigational conditions In Accordance With (IAW) Fleet directives; use charted visual aids to navigation and tides and current data; select, use and correct nautical charts; maintain chart allowance inventories; prepare synoptic observation messages; maintain and review equipment and navigation logs; extract and record maintenance data from appropriate navigation publications; prepare and ensure weekly and quarterly schedules of preventive maintenance are implemented; coordinate shipboard honors and ceremonies; and execute sunrise, morning, and evening colors.

DoD Relationship

Group Title	*DoD Code*
Navigators	106100

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Captains, Mates, and Pilots of Water Vessels	53-5021.00	Transportation and Material Moving

Skills	Abilities
Mathematics	*Deductive Reasoning*
Science	*Mathematical Reasoning*
Operation and Control	*Finger Dexterity*
Coordination	*Inductive Reasoning*
Judgment and Decision Making	*Information Ordering*
Complex Problem Solving	*Written Comprehension*
Critical Thinking	*Problem Sensitivity*
Reading Comprehension	*Written Expression*
Writing	*Speed of Closure*
Management of Material Resources	*Manual Dexterity*

CELESTIAL NAVIGATION

Paygrade	Task Type	Task Statements
E4	CORE	Calculate a fix by advancing celestial lines of position
E4	CORE	Calculate celestial event times (e.g., sunrise, sunset, civil/nautical twilights, etc.)
E4	CORE	Calculate gyro error by Polaris
E4	CORE	Calculate latitude at Local Apparent Noon (LAN)
E4	CORE	Calculate latitude by Polaris
E4	CORE	Calculate time of moonrise/moonset
E4	CORE	Determine a celestial fix using morning or evening stars
E4	CORE	Determine gyro error by amplitude at sunset/sunrise
E4	CORE	Determine gyro error by azimuth
E4	CORE	Plan for morning and evening stars
E4	CORE	Plot Dead Reckoning (DR) tracks on a universal plotting sheet in a Global Positioning System (GPS) denied environment

COMMUNICATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Perform ship-to-ship and ship-to-shore internal voice communications (e.g., fleet, tactical, etc.)

COMMUNICATIONS(CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Perform ship-to-ship and ship-to-shore visual communications (e.g., flashing lights, flags, morse code, etc.)
E4	CORE	Signal watercraft or boats (i.e., visually and audibly)
E5	CORE	Verify internal external communications tests

ELECTRONIC SYSTEMS OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure navigation and task lights
E4	CORE	Detect indications of spoofing/jamming
E5	CORE	Manage non-technical equipment issues
E4	CORE	Prepare electronic navigation systems (e.g., navigation plans, charts loaded, applying correct system configuration, etc.)
E4	CORE	Shutdown electronic navigation software
E4	CORE	Startup electronic navigation software
E4	CORE	Verify helm and lee helm operations
E4	CORE	Verify ship's position data between sources (i.e., radar, paper, and Voyage Management System (VMS))

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Inventory controlled equipment
E4	CORE	Perform preventive maintenance on navigation equipment (e.g., telescopic alidades, signal lights, ship mounted binoculars, etc.)

LOOKOUT AND SIGNALING OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Correlate lighted aids to navigation on charts using stopwatch
E4	CORE	Maintain halyards, halyard blocks, and tie downs
E4	CORE	Perform man overboard procedures
E4	CORE	Prepare weather observation reports
E4	CORE	Report audible and visual information (e.g., sound signals, lights, flags, etc.)
E4	CORE	Report flags (i.e., country flags and signal flags)

NAVIGATION

Paygrade	Task Type	Task Statements
E4	CORE	Adjust radar scope presentation to align with Commanding Officer's (CO) standing orders
E6	NON-CORE	Calculate advanced maneuvering board solutions (e.g., station changes, avoidance courses, etc.)
E4	CORE	Calculate basic maneuvering board solutions (e.g., winds, Closest Point of Approach (CPA), etc.)
E4	CORE	Calculate compensating and correcting courses and speeds
E4	CORE	Calculate required Speed Of Advance (SOA)

NAVIGATION (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Calculate set and drift
E4	CORE	Compare fathometer readings to charted depth
E4	CORE	Compare ship's position ahead/behind relative to Plan of Intended Movement (PIM)
E4	CORE	Compute course and speed made good
E4	CORE	Compute expected times of radar landfall
E4	CORE	Compute gyro error
E4	CORE	Compute magnetic compass errors using gyrocompass
E4	CORE	Compute tides and currents
E4	CORE	Compute visibility of lights and expected times of sighting
E4	CORE	Compute Zone Time (ZT) using Zone Description (ZD)
E4	CORE	Convert arc to time and time to arc
E4	CORE	Correlate lookout information with radar presentations
E4	CORE	Determine latitude and longitude from plotted positions on navigational charts
E4	CORE	Determine ship's position (e.g., electronic, visual, radar, etc.)
E4	CORE	Determine variation on charts
E4	CORE	Graph tides and currents
E4	CORE	Incorporate lookout information with navigation plot
E4	CORE	Measure distances on navigational charts
E4	CORE	Navigate ship during reduced visibility
E4	CORE	Plot ship's position during navigation detail
E4	CORE	Plot ship's position using visual bearings
E4	CORE	Prepare bridge for special evolutions
E4	CORE	Prepare Movement Reports (MOVREP)
E4	CORE	Prepare position reports
E4	CORE	Report aids to navigation
E4	CORE	Report Navigation Rules and Regulations signals (e.g., task lights, day shapes, sound signals, etc.)
E4	CORE	Shift navigation control to secondary location
E4	NON-CORE	Steer ship using aft steering
E4	CORE	Submit weather reports
E6	CORE	Supervise shift of navigation control from bridge to secondary location
E5	CORE	Verify Movement Reports (MOVREP)
E4	CORE	Verify ship's position data in the Combat Information Center (CIC)

PLOTTING

Paygrade	Task Type	Task Statements
E4	CORE	Calculate danger bearings and ranges
E4	CORE	Calculate relative bearings

PLOTTING (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Compute advance and transfer
E4	CORE	Compute anchor chain scopes
E4	CORE	Compute Estimated Time of Arrival (ETA)
E4	CORE	Determine type of ocean bottom
E5	CORE	Plan anchorage areas
E4	CORE	Plot advance and transfer
E4	CORE	Plot anchorage area
E4	CORE	Plot danger bearings and ranges
E4	CORE	Plot distress signals, bearings, and ranges
E4	CORE	Plot great circle sailing routes
E4	CORE	Plot man overboard positions
E4	CORE	Plot mine warfare information
E4	CORE	Plot navigation hazards
E4	CORE	Plot navigation points
E4	CORE	Plot pickup and drop-off points
E4	CORE	Plot Plan of Intended Movement (PIM) tracks
E4	CORE	Plot relative bearings
E4	CORE	Plot surface contact information
E4	CORE	Plot swept channels
E4	CORE	Plot weather message information
E4	CORE	Prepare navigational charts
E4	CORE	Prepare restricted water tracks
E5	CORE	Recommend great circle sailing routes
E4	CORE	Verify water depth is safe for navigation

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements
E5	CORE	Analyze environmental hazards utilizing Protective Measures Assessment Protocol (PMAP) program
E5	CORE	Archive electronic navigation data
E5	CORE	Coordinate shipboard honors and ceremonies (e.g., up and overs, passing honors, dress ship, etc.)
E4	CORE	Correct navigational charts (i.e., paper and electronic)
E4	CORE	Execute sunrise, morning and evening colors
E4	CORE	Extract information from Naval and navigation publications, technical briefs, notices, and bulletins
E4	CORE	Maintain administrative records (e.g., deck logs, position logs, bearing books, etc.)
E4	CORE	Maintain chart and publication inventories

TECHNICAL ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E5	NON-CORE	Manage administrative programs (e.g., maintenance management systems, Relational Administrative Data Management (RADM), etc.)
E4	CORE	Prepare navigation briefs
E6	CORE	Validate navigational charts
E5	CORE	Verify navigational charts

Job Title

Navigation Specialist

Job Code

003744

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Transportation and Material Moving	TBD	NAVIGATION SPECIALIST	NAVIGATN SPEC

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	QM	NEC WXXX Series and other NECs as assigned

Job Description

Navigation Specialists stand watch as assistants to the Officer of the Deck (OOD) and are a direct representative of the Navigator; perform ship control, navigation, and bridge watch duties; select charts for voyage planning; determine danger angles and danger bearings; use and update sailing directions, light lists, coastal pilots, and related publications and navigation charts; use United States Coast Guard (USCG) publications concerning nautical rules and regulations; use basic course-plotting instruments, lead lines, depth sounders, and compasses; maintain the compass book; determine ship's position by celestial observations; identify aids to navigation; serve as weather observers; recognize the significance of dew point, relative humidity, temperature, atmospheric pressure, wind force and direction, cloud formation, and sea state in general weather forecasting; maintain the weather observation sheet; handle plain language radio communications and visual communications; and as experienced Navigation Specialists, supervise bridge personnel.

DoD Relationship		O*NET Relationship		
Group Title	*DoD Code*	*Occupation Title*	*SOC Code*	*Job Family*
Navigators	106100	Captains, Mates, and Pilots of Water Vessels	53-5021.00	Transportation and Material Moving

Skills	Abilities
Mathematics	*Deductive Reasoning*
Science	*Mathematical Reasoning*
Operation and Control	*Finger Dexterity*
Critical Thinking	*Inductive Reasoning*
Reading Comprehension	*Information Ordering*
Writing	*Written Comprehension*
Complex Problem Solving	*Problem Sensitivity*
Coordination	*Written Expression*
Judgment and Decision Making	*Manual Dexterity*
Active Listening	*Reaction Time*

CELESTIAL NAVIGATION

Paygrade	Task Type	Task Statements
E4	CORE	Calculate a fix by advancing celestial lines of position
E4	CORE	Calculate celestial event times (e.g., sunrise, sunset, civil/nautical twilights, etc.)
E4	CORE	Calculate gyro error by Polaris
E4	CORE	Calculate latitude at Local Apparent Noon (LAN)
E4	CORE	Calculate latitude by Polaris
E4	CORE	Calculate time of moonrise/moonset
E4	CORE	Determine a celestial fix using morning or evening stars
E4	CORE	Determine gyro error by amplitude at sunset/sunrise
E4	CORE	Determine gyro error by azimuth
E4	CORE	Plan for morning and evening stars
E4	CORE	Plot Dead Reckoning (DR) tracks on a universal plotting sheet in a Global Positioning System (GPS) denied environment
E6	CORE	Supervise day's work of celestial navigation and Dead Reckoning (DR) in a Global Positioning System (GPS) denied environment

COMMUNICATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Perform ship-to-ship and ship-to-shore internal voice communications (e.g., fleet, tactical, etc.)
E4	CORE	Perform ship-to-ship and ship-to-shore visual communications (e.g., flashing lights, flags, morse code, etc.)
E4	CORE	Signal watercraft or boats (i.e., visually and audibly)
E4	CORE	Test internal and external visual and audible communications equipment (e.g., portable ship's whistle, sound powered phones, yard arm blinkers, etc.)
E5	CORE	Verify internal external communications tests

ELECTRONIC SYSTEMS OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure navigation and task lights
E4	CORE	Detect indications of spoofing/jamming
E4	CORE	Prepare electronic navigation systems (e.g., navigation plans, charts loaded, applying correct system configuration, etc.)
E4	CORE	Shutdown electronic navigation software
E4	CORE	Startup electronic navigation software
E4	CORE	Verify helm and lee helm operations
E4	CORE	Verify ship's position data between sources (i.e., radar, paper, and Voyage Management System (VMS))

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Inventory controlled equipment
E4	CORE	Perform preventive maintenance on navigation equipment (e.g., telescopic alidades, signal lights, ship mounted binoculars, etc.)

LOOKOUT AND SIGNALING OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Correlate lighted aids to navigation on charts using stopwatch
E4	CORE	Maintain halyards, halyard blocks, and tie downs
E4	CORE	Perform man overboard procedures
E4	CORE	Prepare weather observation reports
E4	CORE	Report audible and visual information (e.g., sound signals, lights, flags, etc.)
E4	NON-CORE	Report contacts (i.e., air and surface)
E4	CORE	Report flags (i.e., country flags and signal flags)

NAVIGATION

Paygrade	Task Type	Task Statements
E4	CORE	Adjust radar scope presentation to align with Commanding Officer's (CO) standing orders
E4	CORE	Calculate basic maneuvering board solutions (e.g., winds, Closest Point of Approach (CPA), etc.)

NAVIGATION (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Calculate compensating and correcting courses and speeds
E4	CORE	Calculate required Speed Of Advance (SOA)
E4	CORE	Calculate set and drift
E4	CORE	Compare fathometer readings to charted depth
E4	CORE	Compare ship's position ahead/behind relative to Plan of Intended Movement (PIM)
E4	CORE	Compute course and speed made good
E4	CORE	Compute expected times of radar landfall
E4	CORE	Compute gyro error
E4	CORE	Compute magnetic compass errors using gyrocompass
E4	CORE	Compute tides and currents
E4	CORE	Compute visibility of lights and expected times of sighting
E4	CORE	Compute Zone Time (ZT) using Zone Description (ZD)
E4	CORE	Convert arc to time and time to arc
E4	CORE	Correlate lookout information with radar presentations
E4	CORE	Determine latitude and longitude from plotted positions on navigational charts
E4	CORE	Determine ship's position (e.g., electronic, visual, radar, etc.)
E4	CORE	Determine variation on charts
E4	CORE	Graph tides and currents
E4	CORE	Incorporate lookout information with navigation plot
E4	CORE	Measure distances on navigational charts
E4	CORE	Navigate ship during reduced visibility
E4	CORE	Obtain visual bearings using alidades
E4	CORE	Plot ship's position during navigation detail
E4	CORE	Plot ship's position using visual bearings
E4	CORE	Prepare bridge for special evolutions
E4	CORE	Prepare Movement Reports (MOVREP)
E4	CORE	Prepare position reports
E4	CORE	Report aids to navigation
E4	CORE	Report Navigation Rules and Regulations signals (e.g., task lights, day shapes, sound signals, etc.)
E4	CORE	Shift navigation control to secondary location
E4	NON-CORE	Steer ship using aft steering
E4	CORE	Submit weather reports
E5	CORE	Verify Movement Reports (MOVREP)
E4	CORE	Verify ship's position data in the Combat Information Center (CIC)

PLOTTING

Paygrade	Task Type	Task Statements
E4	CORE	Calculate danger bearings and ranges
E4	CORE	Calculate relative bearings
E4	CORE	Compute advance and transfer
E4	CORE	Compute anchor chain scopes
E4	CORE	Compute Estimated Time of Arrival (ETA)
E4	CORE	Determine type of ocean bottom
E5	CORE	Plan anchorage areas
E4	CORE	Plot advance and transfer
E4	CORE	Plot anchorage area
E4	CORE	Plot danger bearings and ranges
E4	CORE	Plot distress signals, bearings, and ranges
E4	CORE	Plot great circle sailing routes
E4	CORE	Plot man overboard positions
E4	CORE	Plot mine warfare information
E4	CORE	Plot navigation hazards
E4	CORE	Plot navigation points
E4	CORE	Plot pickup and drop-off points
E4	CORE	Plot Plan of Intended Movement (PIM) tracks
E4	CORE	Plot relative bearings
E4	CORE	Plot surface contact information
E4	CORE	Plot swept channels
E4	CORE	Plot weather message information
E4	CORE	Prepare navigational charts
E4	CORE	Prepare restricted water tracks
E5	CORE	Recommend great circle sailing routes
E4	CORE	Verify water depth is safe for navigation

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Correct navigational charts (i.e., paper and electronic)
E4	CORE	Execute sunrise, morning and evening colors
E4	CORE	Extract information from Naval and navigation publications, technical briefs, notices, and bulletins
E4	CORE	Maintain administrative records (e.g., deck logs, position logs, bearing books, etc.)
E4	CORE	Maintain chart and publication inventories
E4	CORE	Prepare navigation briefs

Job Title

Navigation Manager

Job Code

003745

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Transportation and Material Moving	TBD	NAVIGATION MANAGER	NAVIGATN MGR

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	QM	NEC WXXX Series and other NECs as assigned

Job Description

Navigation Managers provide navigation and piloting expertise to bridge personnel; manage navigation certification processes; serve as advisors by providing actionable navigation recommendations during unusual navigational conditions In Accordance With (IAW) Fleet directives; conduct navigation briefs; select and use appropriate nautical charts; select anchorages; employ appropriate electronic navigation systems; oversee pre-deployment and transoceanic voyage planning; plan emergency drills; and evaluate personnel in the Navigation department.

DoD Relationship

Group Title	*DoD Code*
Navigators	106100

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Captains, Mates, and Pilots of Water Vessels	53-5021.00	Transportation and Material Moving

Skills	Abilities
Mathematics	*Deductive Reasoning*
Judgment and Decision Making	*Problem Sensitivity*
Quality Control Analysis	*Information Ordering*
Complex Problem Solving	*Written Comprehension*
Operation and Control	*Inductive Reasoning*
Coordination	*Written Expression*
Systems Evaluation	*Mathematical Reasoning*
Monitoring	*Perceptual Speed*
Science	*Speed of Closure*
Writing	*Manual Dexterity*

CELESTIAL NAVIGATION

Paygrade	Task Type	Task Statements
E6	CORE	Supervise day's work of celestial navigation and Dead Reckoning (DR) in a Global Positioning System (GPS) denied environment

ELECTRONIC SYSTEMS OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Detect indications of spoofing/jamming
E5	CORE	Manage non-technical equipment issues
E4	CORE	Prepare electronic navigation systems (e.g., navigation plans, charts loaded, applying correct system configuration, etc.)
E4	CORE	Shutdown electronic navigation software
E4	CORE	Startup electronic navigation software
E6	CORE	Verify functionality of helm and lee helm operations
E4	CORE	Verify helm and lee helm operations
E4	CORE	Verify ship's position data between sources (i.e., radar, paper, and Voyage Management System (VMS))

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E5	CORE	Manage controlled equipment inventories

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E6	CORE	Manage equipment certifications and recertifications (e.g., benchmarks, Voyage Management System (VMS), Navigation Certifications (NAVCERT), etc.)
E6	NON-CORE	Verify equipment installation, testing, and alterations

LOOKOUT AND SIGNALING OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Perform man overboard procedures

NAVIGATION

Paygrade	Task Type	Task Statements
E4	CORE	Adjust radar scope presentation to align with Commanding Officer's (CO) standing orders
E6	NON-CORE	Calculate advanced maneuvering board solutions (e.g., station changes, avoidance courses, etc.)
E4	CORE	Calculate compensating and correcting courses and speeds
E4	CORE	Calculate required Speed Of Advance (SOA)
E4	CORE	Compare ship's position ahead/behind relative to Plan of Intended Movement (PIM)
E4	CORE	Incorporate lookout information with navigation plot
E6	CORE	Maintain lookout training program
E4	CORE	Navigate ship during reduced visibility
E4	CORE	Plot ship's position during navigation detail
E4	CORE	Prepare Movement Reports (MOVREP)
E4	CORE	Prepare position reports
E4	CORE	Submit weather reports
E6	CORE	Supervise bridge team during special evolutions (e.g., Underway Replenishments (UNREP), sea and anchor details, navigation details, etc.)
E6	CORE	Supervise shift of navigation control from bridge to secondary location
E5	CORE	Verify Movement Reports (MOVREP)
E4	CORE	Verify ship's position data in the Combat Information Center (CIC)

PLOTTING

Paygrade	Task Type	Task Statements
E5	CORE	Plan anchorage areas
E5	CORE	Recommend great circle sailing routes
E4	CORE	Verify water depth is safe for navigation

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements
E5	CORE	Analyze environmental hazards utilizing Protective Measures Assessment Protocol (PMAP) program
E5	CORE	Archive electronic navigation data

TECHNICAL ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Coordinate shipboard honors and ceremonies (e.g., up and overs, passing honors, dress ship, etc.)
E4	CORE	Extract information from Naval and navigation publications, technical briefs, notices, and bulletins
E6	CORE	Maintain chart and publication allowances
E5	NON-CORE	Manage administrative programs (e.g., maintenance management systems, Relational Administrative Data Management (RADM), etc.)
E4	CORE	Prepare navigation briefs
E6	CORE	Validate navigational charts
E5	CORE	Verify navigational charts