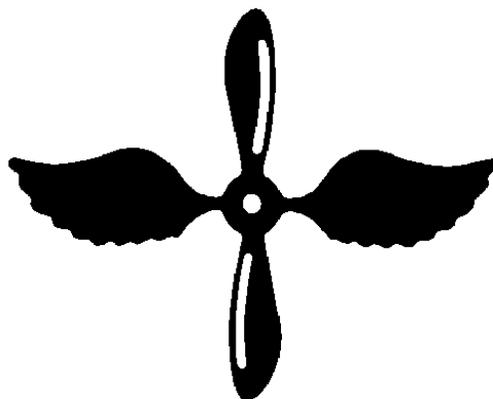


# CHAPTER 3



## AVIATION MACHINIST'S MATE (AD)

NAVPERS 18068F-3H  
Change 90

Updated: April 2022

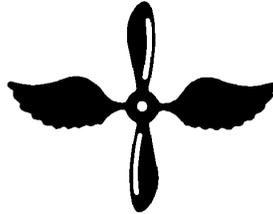
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION MACHINIST'S MATE (AD)



SCOPE OF RATING

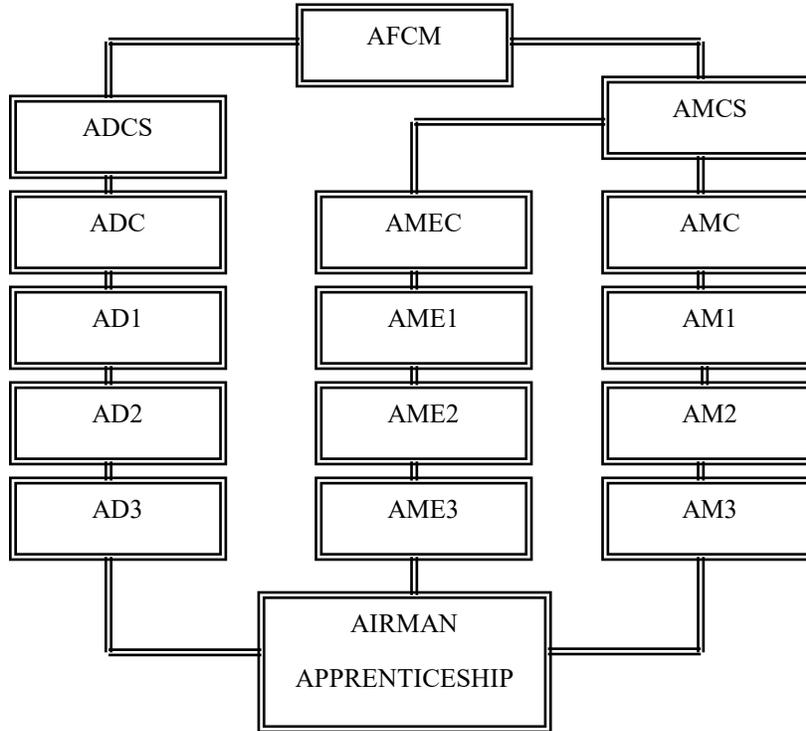
Aviation Machinist's Mates (AD) maintain, inspect, troubleshoot, preserve, and de-preserve aircraft transmission systems, rotor systems, propeller systems, and engines, including fuel, lubrication, intake, compressor, combustion, turbine, exhaust, accessory gearbox, anti-ice, bleed air systems, etc.; conduct special and conditional inspections and oil analysis; perform functional checks and required adjustments on engines and related systems; and supervise and provide training to power plant work centers.

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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) as Chapter 3.

## 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****Aviation Machinist Mate Organizational Level****Job Code****001362****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

AVIA MACHINIST MATE O-LEVEL

**Short Title (14 Characters)**

AVENG SYS O-LV

**Pay Plan**

Enlisted

**Career Field**

AD

**Other Relationships and Rules**

NEC EXXX series or other NECs as assigned

**Job Description**

Aviation Machinist's Mate Organization Level conduct scheduled and unscheduled maintenance including inspections, removal, installation, configuring, and troubleshooting aircraft engines, transmission, rotor, propeller, fuel, and lubrication systems to facilitate daily

**DoD Relationship****O\*NET Relationship****Group Title**

Aircraft Engines

**DoD Code**

160100

**Occupation Title**

Aircraft Mechanics and Service Technicians

**SOC Code**

49-3011.00

**Job Family**

Installation, Maintenance, and Repair

**Skills***Quality Control Analysis**Equipment Selection**Repairing**Operation Monitoring**Systems Evaluation**Systems Analysis**Troubleshooting**Equipment Maintenance**Operation and Monitoring**Judgment and Decision Making***Abilities***Selective Attention**Manual Dexterity**Near Vision**Flexibility of Closure**Inductive Reasoning**Problem Sensitivity**Perceptual Speed**Rate Control**Visualization**Written Comprehension***AUXILIARY POWER SYSTEMS MAINTENANCE****Paygrade****Task Type****Task Statements**

E4

CORE

Inspect Auxiliary Power Plant (APP)

E5

CORE

Inspect Auxiliary Power Units (APU)

E4

CORE

Maintain Auxiliary Power Plant (APP)

E4

CORE

Maintain Auxiliary Power Unit (APU) systems

E4

CORE

Test Auxiliary Power Units (APU)

E4

CORE

Troubleshoot Auxiliary Power Plant (APP)

E4

CORE

Troubleshoot Auxiliary Power Units (APU)

**CORROSION CONTROL****Paygrade****Task Type****Task Statements**

E4

CORE

Clean aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Conduct corrosion inspections

E4

CORE

De-preserve aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Inspect aircraft and aircraft components for corrosion

E4

CORE

Perform corrosion prevention procedures

E4

CORE

Perform emergency reclamations

E4

CORE

Preserve aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Treat power plant and related systems for corrosion

## ENGINE SYSTEMS MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                |
|-----------------|------------------|---------------------------------------|
| E5              | CORE             | Inspect combustion systems            |
| E4              | CORE             | Inspect compressor systems            |
| E5              | CORE             | Inspect engine anti-ice systems       |
| E5              | CORE             | Inspect engine bleed air systems      |
| E5              | CORE             | Inspect engine drive shafts           |
| E5              | CORE             | Inspect engine exhaust systems        |
| E5              | CORE             | Inspect engine ignition systems       |
| E4              | CORE             | Inspect internal cold sections        |
| E4              | CORE             | Inspect internal hot sections         |
| E4              | CORE             | Inspect power plant air inlet system  |
| E4              | CORE             | Inspect turbine modules               |
| E4              | CORE             | Maintain combustion systems           |
| E4              | CORE             | Maintain compressor systems           |
| E4              | CORE             | Maintain engine anti-ice systems      |
| E4              | CORE             | Maintain engine bleed air systems     |
| E4              | CORE             | Maintain engine drive shafts          |
| E4              | CORE             | Maintain engine exhaust systems       |
| E4              | CORE             | Maintain engine ignition systems      |
| E4              | CORE             | Maintain power plant air inlet system |
| E4              | CORE             | Maintain turbine modules              |
| E4              | CORE             | Preserve combustion systems           |
| E4              | CORE             | Preserve compressor systems           |
| E4              | CORE             | Preserve engine drive shafts          |
| E4              | CORE             | Preserve engine exhaust systems       |
| E4              | CORE             | Preserve power plant air inlet system |
| E4              | CORE             | Preserve turbine modules              |
| E4              | CORE             | Repair engine anti-ice systems        |
| E4              | CORE             | Repair engine bleed air systems       |
| E4              | CORE             | Repair engine exhaust systems         |
| E4              | CORE             | Repair engine ignition systems        |
| E4              | CORE             | Test combustion systems               |
| E4              | CORE             | Test compressor systems               |
| E4              | CORE             | Test engine anti-ice systems          |
| E4              | CORE             | Test engine bleed air systems         |
| E4              | CORE             | Test engine exhaust systems           |

## ENGINE SYSTEMS MAINTENANCE (CONT'D)

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                |
|-----------------|------------------|---------------------------------------|
| E4              | CORE             | Test engine ignition systems          |
| E4              | CORE             | Test turbine modules                  |
| E4              | CORE             | Troubleshoot combustion systems       |
| E4              | CORE             | Troubleshoot compressor systems       |
| E4              | CORE             | Troubleshoot engine anti-ice systems  |
| E4              | CORE             | Troubleshoot engine bleed air systems |
| E5              | CORE             | Troubleshoot engine drive shafts      |
| E4              | CORE             | Troubleshoot engine exhaust systems   |
| E4              | CORE             | Troubleshoot engine ignition systems  |
| E4              | CORE             | Troubleshoot turbine modules          |

## FUEL SYSTEMS MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                     |
|-----------------|------------------|--|
| E5              | NON-CORE         | Inspect Aerial Refueling Stores (ARS)      |
| E5              | CORE             | Inspect aircraft fuel systems              |
| E5              | CORE             | Inspect engine fuel systems                |
| E5              | CORE             | Inspect external fuel stores               |
| E4              | CORE             | Maintain aircraft fuel systems             |
| E4              | CORE             | Maintain engine fuel systems               |
| E4              | CORE             | Maintain external fuel stores              |
| E4              | NON-CORE         | Preserve Aerial Refueling Stores (ARS)     |
| E4              | CORE             | Preserve aircraft fuel systems             |
| E4              | CORE             | Preserve engine fuel systems               |
| E4              | CORE             | Preserve external fuel stores              |
| E4              | NON-CORE         | Repair Aerial Refueling Stores (ARS)       |
| E4              | CORE             | Repair engine fuel systems                 |
| E4              | CORE             | Repair external fuel stores                |
| E4              | NON-CORE         | Test Aerial Refueling Stores (ARS)         |
| E4              | CORE             | Test aircraft fuel systems                 |
| E4              | CORE             | Test engine fuel systems                   |
| E4              | CORE             | Test external fuel stores                  |
| E4              | NON-CORE         | Troubleshoot Aerial Refueling Stores (ARS) |
| E4              | CORE             | Troubleshoot aircraft fuel systems         |
| E4              | CORE             | Troubleshoot engine fuel systems           |
| E4              | CORE             | Troubleshoot external fuel stores          |

### HELICOPTER MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                           |
|-----------------|------------------|--|
| E5              | CORE             | Calibrate aircraft rotor systems                 |
| E5              | CORE             | Inspect aircraft drive transmission systems      |
| E4              | CORE             | Inspect aircraft rotor systems                   |
| E5              | CORE             | Inspect engine fire bottles                      |
| E4              | CORE             | Maintain aircraft drive transmission systems     |
| E4              | CORE             | Maintain aircraft rotor systems                  |
| E4              | CORE             | Maintain engine fire bottles                     |
| E5              | CORE             | Perform helicopter vibration analysis            |
| E4              | CORE             | Preserve aircraft drive transmission systems     |
| E5              | CORE             | Repair aircraft rotor systems                    |
| E5              | CORE             | Test aircraft rotor systems                      |
| E4              | CORE             | Troubleshoot aircraft drive transmission systems |
| E4              | CORE             | Troubleshoot aircraft rotor systems              |

### LINE MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                                    |
|-----------------|------------------|---|
| E4              | CORE             | Collect aircraft fuel samples                             |
| E4              | CORE             | Conduct daily inspections                                 |
| E4              | CORE             | Conduct preoperational support equipment (SE) inspections |
| E4              | CORE             | Conduct turnaround inspections                            |
| E4              | CORE             | Perform oil servicing                                     |
| E4              | CORE             | Review Automated Aircraft Discrepancy Books (AADB)        |

### MAINTENANCE ADMINISTRATION

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>           |
|-----------------|------------------|----------------------------------|
| E7              | CORE             | Assign aircraft to missions      |
| E7              | CORE             | Conduct flight crew briefs       |
| E7              | CORE             | Conduct flight crew debriefs     |
| E7              | CORE             | Conduct maintenance briefs       |
| E4              | CORE             | Document maintenance actions     |
| E7              | CORE             | Manage component cannibalization |
| E6              | CORE             | Manage scheduled maintenance     |
| E6              | CORE             | Manage unscheduled maintenance   |
| E7              | CORE             | Prepare aircraft status reports  |
| E7              | CORE             | Prepare engine status reports    |
| E7              | CORE             | Release aircraft safe for flight |
| E7              | CORE             | Schedule aircraft inspections    |
| E7              | CORE             | Schedule aircraft maintenance    |

**POWER PLANT MAINTENANCE**

| <b><u>Paygrade</u></b> | <b><u>Task Type</u></b> | <b><u>Task Statements</u></b>                               |
|------------------------|-------------------------|---|
| E4                     | CORE                    | Collect oil samples for analysis                            |
| E5                     | CORE                    | Conduct aircraft maintenance turns                          |
| E5                     | CORE                    | Inspect accessory gearbox assemblies                        |
| E5                     | CORE                    | Inspect Aircraft Mounted Accessory Drive (AMAD) assemblies  |
| E5                     | CORE                    | Inspect drive shafts  |
| E5                     | CORE                    | Inspect engine control systems                              |
| E5                     | CORE                    | Inspect engine starting systems                             |
| E5                     | CORE                    | Inspect Gas Turbine Compressor (GTC) assemblies             |
| E5                     | CORE                    | Inspect Generator Converter Units (GCU)                     |
| E5                     | CORE                    | Inspect oil systems   |
| E5                     | CORE                    | Inspect Quick Engine Change (QEC) assemblies                |
| E4                     | CORE                    | Maintain accessory gearbox assemblies                       |
| E4                     | CORE                    | Maintain Aircraft Mounted Accessory Drive (AMAD) assemblies |
| E4                     | CORE                    | Maintain drive shafts                                       |
| E4                     | CORE                    | Maintain engine control systems                             |
| E4                     | CORE                    | Maintain engine starting systems                            |
| E4                     | CORE                    | Maintain Gas Turbine Compressor (GTC) assemblies            |
| E4                     | NON-CORE                | Maintain Generator Converter Units (GCU)                    |
| E4                     | CORE                    | Maintain oil analysis sampling equipment                    |
| E4                     | CORE                    | Maintain oil systems  |
| E4                     | CORE                    | Maintain Quick Engine Change (QEC) assemblies               |
| E4                     | CORE                    | Perform engine wash   |
| E4                     | CORE                    | Preserve oil systems  |
| E4                     | CORE                    | Preserve Quick Engine Change (QEC) assemblies               |
| E4                     | CORE                    | Repair oil systems  |
| E4                     | CORE                    | Replace Aircraft Mounted Accessory Drive (AMAD) assemblies  |
| E4                     | CORE                    | Replace drive shafts  |
| E4                     | CORE                    | Replace engine control system components                    |
| E4                     | CORE                    | Replace Generator Converter Units (GCU)                     |
| E4                     | CORE                    | Replace Quick Engine Change (QEC) assemblies                |
| E4                     | CORE                    | Test engine control systems                                 |
| E4                     | CORE                    | Test engine starting systems                                |
| E4                     | CORE                    | Troubleshoot drive shafts                                   |
| E4                     | CORE                    | Troubleshoot engine control systems                         |
| E4                     | CORE                    | Troubleshoot engine starting systems                        |

## POWER PLANT MAINTENANCE (CONT'D)

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                            |
|-----------------|------------------|---|
| E4              | CORE             | Troubleshoot Generator Converter Units (GCU)      |
| E4              | CORE             | Troubleshoot oil systems                          |
| E4              | CORE             | Troubleshoot Quick Engine Change (QEC) assemblies |

## PROPELLER SYSTEMS MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                 |
|-----------------|------------------|--|
| E5              | CORE             | Inspect aircraft propeller components  |
| E5              | CORE             | Inspect aircraft propeller systems     |
| E5              | CORE             | Inspect reduction gearbox systems      |
| E5              | CORE             | Inspect torque meter assemblies        |
| E4              | CORE             | Maintain aircraft propeller systems    |
| E4              | CORE             | Maintain reduction gearbox systems     |
| E4              | CORE             | Maintain torque meter assemblies       |
| E5              | CORE             | Perform propeller vibration analysis   |
| E4              | CORE             | Repair aircraft propeller systems      |
| E4              | CORE             | Repair reduction gearbox systems       |
| E4              | CORE             | Repair torque meter assemblies         |
| E4              | CORE             | Troubleshoot propeller systems         |
| E4              | CORE             | Troubleshoot reduction gearbox systems |
| E4              | CORE             | Troubleshoot torque meter assemblies   |

## QUALITY ASSURANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>   |
|-----------------|------------------|--|
| E5              | CORE             | Conduct aircraft acceptance inspections                                      |
| E5              | CORE             | Conduct aircraft conditional inspections                                     |
| E5              | CORE             | Conduct aircraft special inspections   |
| E5              | CORE             | Conduct aircraft transfer inspections  |
| E5              | CORE             | Conduct Collateral Duty Inspector (CDI) inspections                          |
| E5              | CORE             | Conduct Collateral Duty Quality Assurance Representative (CDQAR) inspections |
| E5              | CORE             | Conduct engine acceptance inspections  |
| E5              | CORE             | Conduct engine conditional inspections                                       |
| E6              | CORE             | Conduct gas free inspections   |
| E6              | CORE             | Conduct phase inspections  |
| E6              | CORE             | Conduct Quality Assurance (QA) inspections                                   |
| E5              | CORE             | Conduct special engine inspections   |
| E5              | CORE             | Conduct support equipment (SE) inspections                                   |
| E5              | CORE             | Conduct transfer inspections   |
| E5              | CORE             | Incorporate Technical Directives (TD)  |
| E6              | CORE             | Manage Naval Aviation Maintenance Programs (NAMP)                            |
| E6              | CORE             | Monitor Naval Aviation Maintenance Programs (NAMP)                           |
| E5              | CORE             | Perform engine control rigging   |

**Job Title**

**Aviation Machinist Mate Intermediate Level**

**Job Code**

**001417**

**Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

AVIA MACHINIST MATE I-LEVEL

**Short Title (14 Characters)**

AVENG SYS I-LV

**Pay Plan**

Enlisted

**Career Field**

AD

**Other Relationships and Rules**

NEC EXXX series or other NECs as assigned

**Job Description**

Aviation Machinist's Mate Intermediate Level performs complete in depth repair of engines and associated components on turboshaft, turbofan, and turboprop engines including complete engine teardown, propellers, rotors, gearboxes, and drive accessories; and evaluate turbine engines performance using engine test cells and advanced calibration equipment.

**DoD Relationship**

**Group Title**

Aircraft Engines

**DoD Code**

160100

**O\*NET Relationship**

**Occupation Title**

Aircraft Mechanics and Service Technicians

**SOC Code**

49-3011.00

**Job Family**

Installation, Maintenance, and Repair

**Skills**

Quality Control Analysis

Operation Monitoring

Equipment Selection

Repairing

Systems Evaluation

Systems Analysis

Troubleshooting

Equipment Maintenance

Operation and Monitoring

Judgment and Decision Making

**Abilities**

Selective Attention

Manual Dexterity

Near Vision

Flexibility of Closure

Inductive Reasoning

Perceptual Speed

Rate Control

Visualization

Problem Sensitivity

Written Comprehension

**AUXILIARY POWER SYSTEMS MAINTENANCE**

**Paygrade**

**Task Type**

**Task Statements**

E5

CORE

Inspect Auxiliary Power Units (APU)

E4

CORE

Repair Auxiliary Power Units (APU)

E4

CORE

Test Auxiliary Power Units (APU)

E4

CORE

Troubleshoot Auxiliary Power Plant (APP)

E4

CORE

Troubleshoot Auxiliary Power Units (APU)

**CORROSION CONTROL**

**Paygrade**

**Task Type**

**Task Statements**

E4

CORE

Clean aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Conduct corrosion inspections

E4

CORE

De-preserve aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Inspect aircraft and aircraft components for corrosion

E4

CORE

Perform corrosion prevention procedures

E4

CORE

Perform emergency reclamations

E4

CORE

Preserve aircraft, support equipment (SE), and aircraft related equipment

E4

CORE

Preserve engine test cell equipment

E4

CORE

Treat power plant and related systems for corrosion

## ENGINE SYSTEMS MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                |
|-----------------|------------------|---------------------------------------|
| E5              | CORE             | Calibrate engine drive shafts         |
| E5              | CORE             | Inspect combustion systems            |
| E4              | CORE             | Inspect compressor systems            |
| E5              | CORE             | Inspect engine anti-ice systems       |
| E5              | CORE             | Inspect engine bleed air systems      |
| E5              | CORE             | Inspect engine drive shafts           |
| E5              | CORE             | Inspect engine exhaust systems        |
| E5              | CORE             | Inspect engine ignition systems       |
| E4              | CORE             | Inspect internal cold sections        |
| E4              | CORE             | Inspect internal hot sections         |
| E4              | CORE             | Inspect power plant air inlet system  |
| E4              | CORE             | Inspect turbine modules               |
| E4              | CORE             | Maintain engine exhaust systems       |
| E4              | CORE             | Maintain power plant air inlet system |
| E4              | CORE             | Preserve combustion systems           |
| E4              | CORE             | Preserve compressor systems           |
| E4              | CORE             | Preserve engine drive shafts          |
| E4              | CORE             | Preserve engine exhaust systems       |
| E4              | CORE             | Preserve power plant air inlet system |
| E4              | CORE             | Preserve turbine modules              |
| E4              | CORE             | Repair combustion systems             |
| E4              | CORE             | Repair compressor systems             |
| E4              | CORE             | Repair engine anti-ice systems        |
| E4              | CORE             | Repair engine bleed air systems       |
| E4              | CORE             | Repair engine drive shafts            |
| E4              | CORE             | Repair engine exhaust systems         |
| E4              | CORE             | Repair engine ignition systems        |
| E4              | CORE             | Repair power plant air inlet system   |
| E4              | CORE             | Repair turbine modules                |
| E4              | CORE             | Test combustion systems               |
| E4              | CORE             | Test compressor systems               |
| E4              | CORE             | Test engine anti-ice systems          |
| E4              | CORE             | Test engine bleed air systems         |
| E4              | CORE             | Test engine drive shafts              |
| E4              | CORE             | Test engine exhaust systems           |

## ENGINE SYSTEMS MAINTENANCE (Cont.)

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                |
|-----------------|------------------|---------------------------------------|
| E4              | CORE             | Test engine ignition systems          |
| E4              | CORE             | Troubleshoot combustion systems       |
| E4              | CORE             | Troubleshoot compressor systems       |
| E4              | CORE             | Troubleshoot engine anti-ice systems  |
| E4              | CORE             | Troubleshoot engine bleed air systems |
| E5              | CORE             | Troubleshoot engine drive shafts      |
| E4              | CORE             | Troubleshoot engine exhaust systems   |
| E4              | CORE             | Troubleshoot engine ignition systems  |
| E4              | CORE             | Troubleshoot turbine modules          |

## FUEL SYSTEMS MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                     |
|-----------------|------------------|--|
| E5              | NON-CORE         | Inspect Aerial Refueling Stores (ARS)      |
| E5              | CORE             | Inspect engine fuel systems                |
| E5              | CORE             | Inspect external fuel stores               |
| E4              | CORE             | Maintain engine fuel systems               |
| E4              | CORE             | Maintain external fuel stores              |
| E4              | NON-CORE         | Preserve Aerial Refueling Stores (ARS)     |
| E4              | CORE             | Preserve engine fuel systems               |
| E4              | CORE             | Preserve external fuel stores              |
| E4              | NON-CORE         | Repair Aerial Refueling Stores (ARS)       |
| E4              | CORE             | Repair engine fuel systems                 |
| E4              | CORE             | Repair external fuel stores                |
| E4              | NON-CORE         | Test Aerial Refueling Stores (ARS)         |
| E4              | CORE             | Test engine fuel systems                   |
| E4              | NON-CORE         | Troubleshoot Aerial Refueling Stores (ARS) |
| E4              | CORE             | Troubleshoot engine fuel systems           |

## LINE MAINTENANCE

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>                                    |
|-----------------|------------------|---|
| E4              | CORE             | Conduct preoperational support equipment (SE) inspections |
| E4              | CORE             | Perform oil servicing                                     |

## MAINTENANCE ADMINISTRATION

| <u>Paygrade</u> | <u>Task Type</u> | <u>Task Statements</u>           |
|-----------------|------------------|----------------------------------|
| E7              | CORE             | Conduct production briefs        |
| E4              | CORE             | Document maintenance actions     |
| E7              | CORE             | Manage component cannibalization |
| E6              | CORE             | Manage scheduled maintenance     |
| E6              | CORE             | Manage unscheduled maintenance   |
| E6              | CORE             | Prepare Broad Arrow (BA) reports |
| E7              | CORE             | Prepare engine status reports    |

**POWER PLANT MAINTENANCE**

| <b><u>Paygrade</u></b> | <b><u>Task Type</u></b> | <b><u>Task Statements</u></b>                   |
|------------------------|-------------------------|---|
| E5                     | NON-CORE                | Calibrate oil analysis equipment                |
| E4                     | CORE                    | Collect oil samples for analysis                |
| E5                     | CORE                    | Inspect accessory gearbox assemblies            |
| E5                     | CORE                    | Inspect engine control systems                  |
| E5                     | CORE                    | Inspect engine test cell equipment              |
| E5                     | CORE                    | Inspect Gas Turbine Compressor (GTC) assemblies |
| E5                     | NON-CORE                | Inspect oil analysis equipment                  |
| E5                     | CORE                    | Inspect oil systems                             |
| E5                     | CORE                    | Inspect Quick Engine Change (QEC) assemblies    |
| E5                     | NON-CORE                | Maintain oil analysis equipment                 |
| E5                     | NON-CORE                | Perform engine test cell operations             |
| E4                     | CORE                    | Perform engine wash                             |
| E4                     | CORE                    | Prepare engine test cell equipment for testing  |
| E4                     | CORE                    | Preserve oil systems                            |
| E4                     | CORE                    | Preserve Quick Engine Change (QEC) assemblies   |
| E4                     | CORE                    | Repair accessory gearbox assemblies             |
| E4                     | CORE                    | Repair engine control systems                   |
| E4                     | CORE                    | Repair engine test cell equipment               |
| E4                     | CORE                    | Repair Gas Turbine Compressor (GTC) assemblies  |
| E5                     | NON-CORE                | Repair oil analysis equipment                   |
| E4                     | CORE                    | Repair oil systems                              |
| E4                     | CORE                    | Replace accessory gearbox assemblies            |
| E4                     | CORE                    | Replace engine control system components        |
| E4                     | CORE                    | Test engine control systems                     |
| E4                     | CORE                    | Test engine starting systems                    |
| E5                     | CORE                    | Test engine test cell equipment                 |
| E5                     | NON-CORE                | Test oil analysis equipment                     |
| E4                     | CORE                    | Troubleshoot engine control systems             |
| E4                     | CORE                    | Troubleshoot engine starting systems            |
| E5                     | CORE                    | Troubleshoot engine test cell equipment         |
| E5                     | NON-CORE                | Troubleshoot oil analysis equipment             |
| E4                     | CORE                    | Troubleshoot oil systems                        |

### **PROPELLER SYSTEMS MAINTENANCE**

| <b><u>Paygrade</u></b> | <b><u>Task Type</u></b> | <b><u>Task Statements</u></b>         |
|------------------------|-------------------------|---------------------------------------|
| E5                     | CORE                    | Inspect aircraft propeller components |
| E5                     | CORE                    | Inspect aircraft propeller systems    |
| E5                     | CORE                    | Inspect reduction gearbox systems     |
| E5                     | CORE                    | Inspect torque meter assemblies       |
| E5                     | CORE                    | Perform propeller vibration analysis  |
| E4                     | CORE                    | Repair aircraft propeller systems     |
| E4                     | CORE                    | Repair reduction gearbox systems      |
| E4                     | CORE                    | Repair torque meter assemblies        |
| E4                     | CORE                    | Troubleshoot propeller systems        |

### **QUALITY ASSURANCE**

| <b><u>Paygrade</u></b> | <b><u>Task Type</u></b> | <b><u>Task Statements</u></b>  |
|------------------------|-------------------------|--|
| E5                     | CORE                    | Conduct Collateral Duty Inspector (CDI) inspections                          |
| E5                     | CORE                    | Conduct Collateral Duty Quality Assurance Representative (CDQAR) inspections |
| E5                     | CORE                    | Conduct engine acceptance inspections  |
| E5                     | CORE                    | Conduct engine conditional inspections                                       |
| E6                     | CORE                    | Conduct gas free inspections   |
| E6                     | CORE                    | Conduct Quality Assurance (QA) inspections                                   |
| E5                     | CORE                    | Conduct special engine inspections   |
| E5                     | CORE                    | Conduct support equipment (SE) inspections                                   |
| E5                     | CORE                    | Conduct transfer inspections   |
| E5                     | CORE                    | Incorporate Technical Directives (TD)  |
| E6                     | CORE                    | Manage Naval Aviation Maintenance Programs (NAMP)                            |
| E6                     | CORE                    | Monitor Naval Aviation Maintenance Programs (NAMP)                           |
| E5                     | CORE                    | Perform engine control rigging   |