Description:
Maintenance Operations Specialists repair and maintain equipment to operating condition.

Directions for Submitting Affidavit:
- Log on to nims-skills.org with Evaluator credentials
- Access the Testing Center
- Access the “Evaluate Candidates” window
- Select “Submit Affidavit” for any assigned candidate
- Follow the on-screen instructions to mark “Pass” or “Fail” for each duty

*Please refer to the standards to access performance requirements for each duty.*

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Role: Maintenance Operations Specialist

Description:

Maintenance Operations Specialists repair and maintain equipment to operating condition.

Duty Area 1: Maintenance Operations

- Duty 1.01: Maintenance
- Duty 1.02: Troubleshooting
- Duty 1.03: Planning
- Duty 1.04: Improvements
- Duty 1.05: Standardizing
- Duty 1.06: Measurements
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.01: Maintenance

Responsibility:
Inspect and maintain equipment to prevent future failures or restore to serviceable and acceptable operating conditions.

Resources:
Access to equipment, operating artifacts, schematics, Measuring and Test Equipment (M&TE), and hand tools

Performance:
*Practical*
1. Executing maintenance procedures
2. Monitoring operations

*Critical Thinking*
1. Conducting job safety analysis
2. Verifying:
   a. Components to replace
   b. System and equipment operations

Compliance:
Full

Evaluation:
Equipment verification, observation
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.02: Troubleshooting

Responsibility:
Trace errors within equipment operations.

Resources:
Access to equipment, operating artifacts, schematics, Measuring and Test Equipment (M&TE), and hand tools

Performance:
Practical
1. Exercising equipment
2. Checking inputs and outputs
3. Documenting findings

Critical Thinking
1. Verifying symptoms
2. Determining:
   a. System and equipment failures
   b. If maintenance is required
   c. Replacement components
   d. When to escalate failures

Compliance:
Full

Evaluation:
Error verification, observation
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.03: Planning

Responsibility:
Formulate maintenance procedures for production equipment.

Resources:
Access to equipment and workflow

Performance:
Practical
- Documenting maintenance procedures

Critical Thinking
- Determining maintenance procedures

Compliance:
Full

Evaluation:
Plan verification
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.04: Improvements

Responsibility:
Evaluate equipment operation for improvements.

Resources:
Access to systems, original system design, system information, and user feedback

Performance:

Practical
1. Researching new technologies
2. Documenting and presenting proposed changes

Critical Thinking
1. Determining:
   a. Areas for improvement
   b. Technologies to optimize
   c. New technologies to deploy
2. Comparing current system design to proposed changes
3. Analyzing benefits and investments

Compliance:
Full

Evaluation:
Observation
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.05: Standardizing

Responsibility:
Check Measuring and Test Equipment (M&TE) to ensure accuracy, repeatability, and reproducibility.

Resources:
Access to M&TE, standardization equipment or artifact, applicable specification, standardization procedure, and any related accessories

Performance:
Practical
1. Taking measurements in accordance with standardization procedure
2. Cleaning and adjusting M&TE

Critical Thinking
1. Ensuring the artifact is in good condition and clean
2. Selecting correct standardization equipment or artifact
3. Interpreting measurement result
4. Evaluating potential sources of error

Compliance:
Full

Evaluation:
Measurement verification, observation
Role: Maintenance Operations Specialist
Duty Area 1: Maintenance Operations
Duty 1.06: Measurements

Responsibility:
Select and use appropriate Measuring and Test Equipment (M&TE) to measure industrial equipment and component conditions in an accurate, repeatable, and reproducible manner.

Resources:
Access to hand-held M&TE and applicable specifications, equipment and component specifications, and any related accessories

Performance:
Practical
1. Taking measurements
2. Recording results of measurements

Critical Thinking
1. Selecting appropriate M&TE for measurement
2. Applying appropriate measurement technique
3. Determining need for traceability of M&TE
4. Interpreting measurement result
5. Evaluating potential sources of error

Compliance:
Full

Evaluation:
Measurement verification, observation