Description:
Pneumatic Systems Specialists repair and maintain pneumatic systems and associated components such as compressors, valves, regulators, cylinders, and filters to keep equipment in 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: Pneumatic Systems Specialist

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Duty Area 1: Pneumatic Systems
  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: Pneumatic Systems Specialist
Duty Area 1: Pneumatic Systems
Duty 1.01: Maintenance

Responsibility:
Inspect and maintain pneumatic systems 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. Starting up and shutting down air compressors
2. Adjusting:
   a. Branch operating pressure
   b. Actuator speeds
3. Servicing filters and lubricators
4. Installing pneumatic components

Critical Thinking
1. Conducting job safety analysis
2. Determining
   a. When to make adjustments
   b. When to replace filters and add lubrication
3. Verifying:
   a. Components to replace
   b. Systems and component operations

Compliance:
Full

Evaluation:
Equipment verification, observation
Role: Pneumatic Systems Specialist  
Duty Area 1: Pneumatic Systems  
Duty 1.02: Troubleshooting

Responsibility:  
Trace errors within pneumatic systems.

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 failures require adjustments  
   c. Replacement components  
   d. When to escalate failures

Compliance:  
Full

Evaluation:  
Error verification, observation
Role: Pneumatic Systems Specialist
Duty Area 1: Pneumatic Systems
Duty 1.03: Planning

Responsibility:
Formulate maintenance procedures for pneumatic systems.

Resources:
Access to equipment and workflow

Performance:
Practical
   Documenting maintenance procedures

   Critical Thinking
   Determining maintenance procedures

Compliance:
Full

Evaluation:
Plan verification
Role: Pneumatic Systems Specialist  
Duty Area 1: Pneumatic Systems  
Duty 1.04: Improvements

Responsibility:
Evaluate pneumatic systems 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: Pneumatic Systems Specialist
Duty Area 1: Pneumatic Systems
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: Pneumatic Systems Specialist
Duty Area 1: Pneumatic Systems
Duty 1.06: Measurements

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

Resources:
Access to hand-held M&TE and applicable specifications, system 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