NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. Performance tests are designed to measure competency in the tasks taught in each module.

Please note the number of tasks to be tested while teaching each module. Each trainee should be tested on all the tasks listed on the Performance Profile Sheet(s). Before performance testing, the instructor should brief the trainees on:

• Test objectives and criteria
• Safety precautions
• Procedures for each task to be tested

The instructor administering the performance testing should also do the following:

• Ensure that all of the needed equipment is available and operating properly.
• Set up the testing stations.
• Organize and administer the test in a way that allows for optimal performance.
• Complete the Performance Profile Sheet(s) for each trainee by assigning a pass/fail score for each listed task. Also, include the testing date for each task in the rating box.
• Monitor adherence to all safety regulations and precautions.
• Provide adequate supervision to prevent injuries.
• Take immediate and effective action to remedy any emergency.

Performance Testing

If Performance Testing is done as part of the National Center for Construction Education and Research Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification for the craft being tested.
2. The training must be delivered through an Accredited Training Sponsor recognized by NCCER.
3. For every module, the specific performance testing must be completed to the satisfaction of the instructor.
4. The results of the testing must be recorded on the Training Report Form 200. This form must be provided to the local Accredited Training Sponsor to be forwarded to the NCCER National Registry.

Certified Plus Credential

Provided the sponsor is working through an NCCER-Accredited Assessment Center, candidates who successfully pass performance testing may be eligible for a Certified Plus Credential. A number of NCCER's Performance Profiles cross over to NCCER's Assessment Performance Verifications and may be completed simultaneously. Go to www.nccer.org and select the Assessments tab to locate the Performance Verifications associated with this craft. Note two other important conditions are required for the Certified Plus Credential:

1. Candidates must first pass the associated written assessment.
2. An NCCER-Accredited Assessment Administrator must sign off on the Performance Verification before it is submitted to NCCER.
Objective TASK

1. Demonstrate steps and precautions you should take when working with pneumatic systems.

5. Identify different types of compressors and their components.

5, 6. Demonstrate how different types of compressors work.
Objective TASK

1. Demonstrate steps and precautions you should take when working with hydraulic systems.

3. Identify hydraulic system parts, explain how they work, and describe their role in a hydraulic system.

5. Describe the classifications of hydraulic pumps.

6. Identify different types of hydraulic motors and how they work.
### Objective TASK

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify a given specialty tool, state its application, and describe its safe use and maintenance.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Demonstrate the use of a given specialty tool according to the standards given by your instructor.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3. Identify a given precision tool, state its application, and describe its safe use and maintenance.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. Demonstrate the use of a given precision tool according to the standards given by your instructor.</td>
<td></td>
</tr>
</tbody>
</table>

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Objective TASK

1. Identify the different valve inspection requirements.

2. Describe the routine walk-around inspection requirements for valves or perform a routine walk-around valve inspection (CT 20.1).

3. Describe the external integrity inspection requirements for valves or perform an external integrity inspection (CT 20.2).

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<table>
<thead>
<tr>
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<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4. Describe the functional test required for valves or perform a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>functional valve test (CT 20.3).</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5. Describe how to leak test a valve or perform a leak test on a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>valve (CT 20.4).</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>6. Describe how to disassemble and reassemble a valve or disassemble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and reassemble a valve. (CT 21.2).</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>7. Describe the internal inspection requirements of a valve or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>perform an internal valve inspection (CT 21.3).</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>8. Rig a large valve or describe how to rig a large valve.</td>
<td></td>
</tr>
</tbody>
</table>
Objective | TASK | RATING
--- | --- | ---
1 | 1. Identify types of relief valves and pressure limiting devices. | 
2 | 2. Inspect tank pressure/vacuum breaker (CT 22). | 
2 | 3. Inspect, test, and calibrate HVL tank pressure relief valves (CT 22). | 

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<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>4. Inspect, test, and calibrate pressure limiting devices and relief valves (CT 24).</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5. Inspect, maintain, and repair relief valves (CT 23.1).</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>6. Maintain and repair pressure limiting devices (CT 23.2).</td>
<td></td>
</tr>
</tbody>
</table>
### Objective TASK RATING

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify, explain, and/or demonstrate the use of various types of meters.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Identify, explain, and/or demonstrate the use of various types of provers.</td>
<td></td>
</tr>
</tbody>
</table>
Objective | TASK | RATING
---|---|---
1 | 1. Identify various types of pumps and their components. | 
1 | 2. Explain how various types of pumps work. | 
2 | 3. Define net positive suction head. | 
2 | 4. Define cavitation and describe the damage it can cause. | 
3 | 5. Install or simulate installing a pump. | 

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Objective | TASK | RATING
---|---|---
1 | 1. Identify and explain various types of gas compressors. | 
2 | 2. Explain the function of compressors. | 
3 | 3. Explain the operation of compressors. | 
4 | 4. Identify auxiliary equipment. | 

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PIPELINE MECHANICAL LEVEL TWO — MODULE 63208-02 PERFORMANCE PROFILE
Objective TASK

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify types of bearings and explain how they work.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Explain bearing designation.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Troubleshoot bearings.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4. Remove bearings.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5. Install bearings.</td>
<td></td>
</tr>
</tbody>
</table>

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Objective | TASK | RATING
---|---|---
1 | 1. Identify types of mechanical seals and explain how they work. | 10.5
2 | 2. Explain mechanical seal classification. | 10.5
3 | 3. Remove a mechanical seal. | 10.5
3 | 4. Troubleshoot a mechanical seal. | 10.5
3 | 5. Install a mechanical seal. | 10.5
# PERFORMANCE PROFILE SHEET

**Craft:** Pipeline Mechanical  
**Module Number:** 63211-02  
**Module Title:** Maintain and Repair Drivers

---

**TRAINEE NAME:** ________________________________  
**TRAINEE SOCIAL SECURITY NUMBER:** ________________________________  
**CLASS:** ____________________________________________  
**TRAINING PROGRAM SPONSOR:** ____________________________________________

---

**INSTRUCTOR:** ________________________________

---

**Rating Levels:**  
(1) Passed: performed task  
(2) Failed: did not perform task  
Also, list the date the testing for each task was completed.

**Recognition:**  
When testing for the NCCER Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

**Certified Plus Credential:**  
Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

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<table>
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<tr>
<th>Objective</th>
<th>TASK</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify types of drivers.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Inspect drivers.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Replace bearings and seals.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4. Perform preventive maintenance activities.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5. Replace drivers.</td>
<td></td>
</tr>
</tbody>
</table>

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