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.
## Performance Profile Sheet

**Craft:** Pipeline Mechanical  
**Module Number:** 63301-02  
**Module Title:** Installing Rotating Equipment

**Trainee Name:**  
**Trainee Social Security Number:**  
**Class:**  
**Training Program Sponsor:**

**Instructor:**

**Rating Levels:**  
(1) Passed: performed task  
(2) Failed: did not perform task  

**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.

<table>
<thead>
<tr>
<th>Objective</th>
<th>Task</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify and describe the inspection requirements for an equipment pad.</td>
<td></td>
</tr>
<tr>
<td>2, 3, 4</td>
<td>2. Describe, inspect, and prepare equipment prior to installation.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3. Describe the installation process for rotating equipment.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>4. Describe the process to relieve pipe stress from rotating equipment.</td>
<td></td>
</tr>
</tbody>
</table>
Objective TASK

1. Recognize and describe the four types of equipment misalignment.

2. Describe the major steps in performing each of the following:

   • Conventional rim-and-face alignment

   • Reverse dial indicator alignment using the equation method of alignment

RATING

(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.

Copyright © 2002 National Center for Construction Education and Research. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>• Reverse dial indicator alignment using the graphical chart method of alignment</td>
<td></td>
</tr>
<tr>
<td>6, 7</td>
<td>• Laser alignment</td>
<td></td>
</tr>
</tbody>
</table>
Objective 3

1. Identify and explain the different kinds of basic vibration test equipment.
### Objective TASK

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Describe the preventive maintenance requirements for a pump.</td>
</tr>
<tr>
<td>2</td>
<td>2. Describe the inspection requirements for a pump.</td>
</tr>
<tr>
<td>3</td>
<td>3. Demonstrate common troubleshooting techniques and identify common problems for a pump.</td>
</tr>
</tbody>
</table>

**Rating Levels:**

(1) Passed: performed task  
(2) Failed: did not perform task

**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.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Demonstrate the common steps to perform each of the following:</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>• Prepare a pump for shutdown for maintenance or repair.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>• Remove a pump from a pipeline system for maintenance or repair.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• Disassemble and reassemble a pump.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>• Install a pump after it has been reassembled.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>• Prepare a pump for startup and operational check after maintenance or repair has been completed.</td>
<td></td>
</tr>
</tbody>
</table>
1. Identify the typical lubrication system components of a gas compressor.

2. Describe the preventive maintenance requirements for a gas compressor.

3. Demonstrate common troubleshooting techniques for a gas compressor.
### Objective TASK RATING

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Demonstrate the common steps to perform each of the following</td>
</tr>
<tr>
<td></td>
<td>• Prepare a gas compressor for shutdown and repair.</td>
</tr>
<tr>
<td>5</td>
<td>• Isolate a gas compressor from a pipeline system.</td>
</tr>
<tr>
<td>6</td>
<td>• Repair a rotary and reciprocating gas compressor.</td>
</tr>
<tr>
<td>7</td>
<td>• Prepare the gas compressor for start-up and operational check after maintenance or repair has been completed.</td>
</tr>
</tbody>
</table>
**Objective** | **TASK** | **RATING**
--- | --- | ---
1 | 1. Perform preventative maintenance procedures on a pneumatic system. |  
2 | 2. Inspect pneumatic system components. |  
3, 4 | 3. Troubleshoot pneumatic systems. |  
5 | 4. Repair pneumatic system components. |  

---

Copyright © 2002 National Center for Construction Education and Research. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5. Adjust pneumatic valve actuators/operators (CT 19.6).</td>
</tr>
<tr>
<td>7</td>
<td>6. Repair pneumatic valve actuators/operators (CT 21.1).</td>
</tr>
</tbody>
</table>
Objective TASK

1. Inspect hydraulic system equipment.

2. Troubleshoot hydraulic system components.

3. Repair hydraulic system components.

4. Adjust hydraulic valve actuators/operators (CT 19.7).

5. Repair hydraulic valve actuators/operators (CT 21.4).

Copyright © 2002 National Center for Construction Education and Research. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.
## PERFORMANCE PROFILE SHEET

### Craft: Pipeline Mechanical
### Module Number: 63308-02
### Module Title: Maintain, Troubleshoot, and Repair Electric Valve Actuators/Operators and Systems

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Perform preventative maintenance procedures on electric actuators/operators.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Inspect electric actuator/operator components.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Troubleshoot problems with electric actuators/operators.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4. Adjust electric actuator/operator components (CT 19.5).</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5. Repair electric actuator/operator components (CT 21.5).</td>
<td></td>
</tr>
</tbody>
</table>

Copyright © 2002 National Center for Construction Education and Research. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

PIPELINE MECHANICAL LEVEL THREE — MODULE 63308-02 PERFORMANCE PROFILE
### PERFORMANCE PROFILE SHEET

**Craft:** Pipeline Mechanical  
**Module Number:** 63309-02  
**Module Title:** Maintain, Troubleshoot, and Repair Metering Devices and Provers

---

**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.

---

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>1. Inspect, maintain, and repair metering devices.</td>
<td></td>
</tr>
<tr>
<td>3, 4</td>
<td>2. Inspect, maintain, and repair prover systems.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3. Calibrate prover systems.</td>
<td></td>
</tr>
</tbody>
</table>

---

Copyright © 2002 National Center for Construction Education and Research. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

**PIPELINE MECHANICAL LEVEL THREE — MODULE 63309-02 PERFORMANCE PROFILE**  
9.5