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.
Module 66101-02 has no Performance Profile Sheet; no performance testing is required for this module.
Module 66102-02 has no Performance Profile Sheet; no performance testing is required for this module.
**Objective TASK**

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 3, 4</td>
<td>1. Locate line (CT 14.1 and 17.1)</td>
<td></td>
</tr>
</tbody>
</table>
**Objective TASK**

1. Accurately measure pit depth using a pit gauge (CT 8.1).
   - Correctly prepare surface to be measured.
   - Properly position gauge against surface.
   - Adjust gauge arm to contact deepest area of pit.
   - Read/record depth measurements and repeat as needed to verify which pit is deepest.

**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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## Objective TASK

### 2

2. Using a handheld ultrasonic meter, accurately measure wall thickness (CT 8.2).

- Assemble, check, and calibrate an ultrasonic meter.
- Demonstrate proper cleaning, maintenance, operation, and storage of a UT meter.
- Properly prepare surface to be measured.
- Apply couplant.
- Place transducer in contact with couplant/surface.
- Accurately interpret meter readings.

### 3

3. Properly measure a corroded area of pipe (CT 8.3).

- Correctly prepare surface.
- Measure length and width of localized corrosion region.
- Determine overall length of interconnected areas.
- Lay out measurement grid and obtain profile measurements of corroded region.
- Determine nominal wall thickness.
- Measure greatest pit depth.
# PERFORMANCE PROFILE SHEET

**Craft:** Pipeline Corrosion Control  
**Module Number:** 61105-02  
**Module Title:** Inspect Buried and Submerged Pipe

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 4</td>
<td>1. Inspect for physical damage on buried or submerged pipe (CT 5.1).</td>
<td></td>
</tr>
<tr>
<td>2, 4</td>
<td>2. Inspect for external corrosion on buried or submerged pipe (CT 5.2).</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Inspect the condition of external coating on buried or submerged pipe (CT 5.3).</td>
<td></td>
</tr>
</tbody>
</table>

---

Written by: National Center for Construction Education and Research  
Published: 2002  
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**Objective TASK**

1. Prepare a coating evaluation and prepare the surface of a pipeline system for coating application or repairs (CT 7.1, 7.2, 7.3, 7.5, 13.1, and 13.2).

2. Visually inspect and verify the quality of the surface preparation by checking the surface profile (CT 7.2).

3. Properly apply corrosion-preventative coating to a pipeline facility exposed to atmospheric conditions (CT 7.5).

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>1. Prepare a coating evaluation and prepare the surface of a pipeline system for coating application or repairs (CT 7.1, 7.2, 7.3, 7.5, 13.1, and 13.2).</td>
<td></td>
</tr>
<tr>
<td>3, 4</td>
<td>2. Visually inspect and verify the quality of the surface preparation by checking the surface profile (CT 7.2).</td>
<td></td>
</tr>
<tr>
<td>5, 6</td>
<td>3. Properly apply corrosion-preventative coating to a pipeline facility exposed to atmospheric conditions (CT 7.5).</td>
<td></td>
</tr>
</tbody>
</table>

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## Performance Profile Sheet

**Craft:** Pipeline Corrosion Control  
**Module Number:** 61107-02  
**Module Title:** Apply and Repair External Coatings on Buried and Submerged Pipe

### Trainee Information
- **Trainee Name:** _____________________________________________
- **Trainee Social Security Number:** _____________________________
- **Class:** ____________________________________________________
- **Training Program Sponsor:** __________________________________

### Instructor
- **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 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.

### Objective | Task | Rating
--- | --- | ---
1, 3, 4 | 1. Properly prepare and apply different types of coatings according to the manufacturer's instructions (CT 13.4). |  

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PIPELINE CORROSION CONTROL LEVEL ONE — MODULE 61107-02 PERFORMANCE PROFILE

7.3
### Objective TASK RATING

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1. Properly locate the reference electrode relative to the structure (CT 1.1).</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2. Measure structure-to-soil potential (CT 1.1).</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3. Obtain a voltage and current output reading from a rectifier (CT 3.1).</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>4. Check for proper operation of a rectifier (CT 3.2).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Determine voltage.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Determine current.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Obtain the shunt ratio.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Examine rectifier for abnormal defects.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>5. Inspect and test isolation devices (CT 1.5).</td>
<td></td>
</tr>
</tbody>
</table>
Objective | TASK | RATING
--- | --- | ---
4 | 1. Install test leads by exothermic welding methods (CT 2.4). | 
3 | 2. Install test leads by non-exothermic welding methods (CT 2.3). | 
1, 2 | 3. Inspect and verify test lead continuity (CT 2.1). | 
2 | 4. Repair damaged test leads (CT 2.2). | 

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Objective | TASK | RATING
--- | --- | ---
1, 2 | 1. Inspect internal pipe surfaces (CT 12). |
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Insert and remove coupons according to manufacturer and company specifications (CT 10.1).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Properly package and label coupon(s).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Prepare new coupons.</td>
<td></td>
</tr>
<tr>
<td>Objective</td>
<td>TASK</td>
<td>RATING</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>2</td>
<td>2. Properly monitor on-line probes (CT 10.2).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Locate probe site and remove port cap.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Read probe and make proper documentation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Correctly replace port cap.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Perform internal corrosion remediation (CT 11).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Start injection of inhibitor and monitor inhibitor rates per</td>
<td></td>
</tr>
<tr>
<td></td>
<td>company policy and manufacturer standards.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Correctly adjust/calibrate inhibitor injection rates to achieve</td>
<td></td>
</tr>
<tr>
<td></td>
<td>company standard.</td>
<td></td>
</tr>
</tbody>
</table>