NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. This examination is 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, and start and end times for each task in the rating boxes.
- 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 NCCER Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification.
2. The training must be delivered through an Accredited Training Sponsor recognized by NCCER.
3. The specific performance testing must be completed successfully.
4. The results of the testing must be recorded on the Registration of Training Modules Form. This form must be provided to the local Accredited Training Sponsor to be forwarded to the NCCER 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 that 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.
<table>
<thead>
<tr>
<th>OBJECTIVE</th>
<th>TASK</th>
<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 3, 4</td>
<td>Identify specific measurement devices, state the variable that each device measures, and describe the principles of operation for each selected device.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Module 12301-15 has no Performance Profile Sheet; no performance testing is required for this module.
Craft: Instrumentation Level 2  
Module: Module Three, 12202-15  
Module Title: Instrument Drawings and Documents, Part Two

INSTRUMENTATION LEVEL 2--MODULE 12202-15 PERFORMANCE PROFILE

TRAINEE NAME: ______________________________

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Trace the circuit flow on a one-line diagram.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 3</td>
<td>Read and interpret an electrical raceway drawing.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 4</td>
<td>Read and interpret a loop sheet.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Performance Profile Sheet (Page 1 of 1)

Craft: Instrumentation Level 2
Module: Module Four, 33205-10
Module Title: Test Equipment

TRAINER NAME: ________________________________

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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<th>START TIME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Measure AC/DC voltage, current, and resistance using a multimeter.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Set up and use selected cable testers to check out cables and evaluate the performance of copper and optical fiber cable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Instrumentation Level 2  
Module: Module Five, 12212-15 
Module Title: Panel-Mounted Instruments

Trainee Name: 
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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Lay out an instrument panel.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Install an instrument in a panel.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**INSTRUMENTATION LEVEL 2--MODULE 12213-15 PERFORMANCE PROFILE**

**Craft:** Instrumentation Level 2  
**Module:** Module Six, 12213-15  
**Module Title:** Installing Field-Mounted Instruments

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**TRAINEE NAME:**  

**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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Using a P&amp;ID, properly orient an orifice plate between two pipe flanges and identify the direction of flow.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Assemble and install a thermocouple in a thermowell into a section of process piping.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Match the appropriate manifold to a differential-pressure device and make the necessary piping connections.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Identify selected pipe flange facings.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Instrumentation Level 2  
Module: Module Seven, 12214-15  
Module Title: Raceways for Instrumentation

INSTRUMENTATION LEVEL 2--MODULE 12214-15 PERFORMANCE PROFILE

| TRAINEE NAME: |  |
| 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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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<th>START TIME</th>
<th>END TIME</th>
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</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Cut, thread, and ream conduit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2, 3</td>
<td>Connect and support conduit to a box or device using liquidtight flexible metal conduit and fittings.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Instrumentation Level 2  
Module: Module Eight, 12303-15  
Module Title: Clean, Purge, and Test Tubing and Piping Systems

TRAINEE NAME: 

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Set up and perform a pneumatic or hydrostatic leak test.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Inspect the tested system to verify the absence of leaks.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Document the results of the leak test.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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</thead>
<tbody>
<tr>
<td>1</td>
<td>Install electric heat tracing on a short section of piping.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Install electric heat tracing on a control valve.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Install a section of steam tracing according to a set of instructor-provided specifications.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Perform a blowdown on a transmitter, following specific sequences to open and close the manifold valve to protect the instrument.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Instrumentation Level 2
Module: Module Ten, 12302-15
Module Title: Layout and Installation of Tubing and Piping Systems

Trainee Name: 

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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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</thead>
<tbody>
<tr>
<td>1</td>
<td>Given a set of instructor-provided drawings, create a bill of materials for the installation of the instrument and its process connections.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Measure, bend, and install tubing according to the drawings used for Performance Task 1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 3</td>
<td>Indicate the types and locations of support needed for the tubing installation shown in the drawings used in Performance Task 1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Instrumentation Level 2  
Module: Module Eleven, 12210-15  
Module Title: Instrument Air Filters, Regulators, and Dryers

<table>
<thead>
<tr>
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify the components of filters and regulators.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select the appropriate filter for a given application.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Disassemble and reassemble a pressure regulator.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select the appropriate dryer for a given application.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Also, list the date the testing for each task was completed.

When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

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.