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. 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 and submitted to the local Accredited Training Sponsor for approval through NCCER’s Registry system or submitted through the Testing System.

Certified Credential

If the sponsor is working through an NCCER-Accredited Assessment Center, candidates who successfully pass performance testing may be eligible for a Certified credential. A number of NCCER’s Performance Profiles cross over to NCCER’s Assessment Performance Verifications and may be completed simultaneously. Note that two other important conditions are required for the Certified 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: Sheet Metal Level 2
Module: 04301
Module Title: Field Measurements, Calculations, and Fittings

TRAINEE NAME: ___________________________________________________
TRAINING PROGRAM SPONSOR: ____________________________________
INSTRUCTOR: _____________________________________________________

Rating Levels:
(1) Passed: performed task
(2) Failed: did not perform task
Be sure to list the date the testing for each task was completed.

Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

<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>3</td>
<td>Perform a field-measuring task and calculate the dimensions needed to layout an offset in round or rectangular duct.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Performance Profile Sheet

Craft: Sheet Metal Level 2  
Module: 04202  
Module Title: Construction and Sheet Metal Drawings

TRAINEE NAME: ___________________________________________________  
TRAINING PROGRAM SPONSOR: ________________________________  
INSTRUCTOR: ________________________________

Rating Levels:
(1) Passed: performed task  
(2) Failed: did not perform task
Be sure to list the date the testing for each task was completed.

Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Accurately locate and identify instructor-requested items and information on one or more mechanical plans.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Performance Profile Sheet

Craft: Sheet Metal Level 2
Module: 04203
Module Title: Radial Line Development

TRAINEE NAME: ___________________________________________________
TRAINING PROGRAM SPONSOR: ____________________________________
INSTRUCTOR: _____________________________________________________

Rating Levels:
(1) Passed: performed task
(2) Failed: did not perform task
Be sure to list the date the testing for each task was completed.

Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Lay out and fabricate four of the following six fittings:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Symmetrical tapered duct</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Round duct intersecting a taper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Off-center tapered duct</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Square-to-square tapered duct</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Shoe tee intersecting a taper on center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBJECTIVE</td>
<td>TASK</td>
<td>RATING</td>
<td>DATE</td>
<td>START TIME</td>
<td>END TIME</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------</td>
<td>--------</td>
<td>------</td>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>• 90-degree tapered elbow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Performance Profile Sheet

Craft: Sheet Metal Level 2
Module: 04306
Module Title: Triangulation

TRAINEE NAME: ____________________________________
TRAINING PROGRAM SPONSOR: __________________________
INSTRUCTOR: ________________________________________

Rating Levels:
(1) Passed: performed task
(2) Failed: did not perform task
Be sure to list the date the testing for each task was completed.

Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select one fitting described in this Trainee Guide and successfully lay out and fabricate the fitting to the instructor’s specifications.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Performance Profile Sheet

Craft: Sheet Metal Level 2
Module: 04204
Module Title: Sheet Metal Duct Fabrication Standards

TRAINEE NAME: ___________________________________________________
TRAINING PROGRAM SPONSOR: ____________________________________
INSTRUCTOR: _____________________________________________________

Rating Levels:
(1) Passed: performed task
(2) Failed: did not perform task
Be sure to list the date the testing for each task was completed.

Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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</thead>
<tbody>
<tr>
<td>1</td>
<td>Using the example of shop standards herein, use tables, figures, and notes to determine correct hanger sizes and spacings to solve an instructor-specified duct-suspension scenario.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Using the example of shop standards herein, locate standards for rectangular ducts in various instructor-specified pressure classes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Performance Profile Sheet**

Craft: Sheet Metal Level 2  
Module: 04206  
Module Title: Bend Allowances

**TRAINEE NAME:** ___________________________________________________  
**TRAINING PROGRAM SPONSOR:** ____________________________________  
**INSTRUCTOR:** _____________________________________________________

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

Be sure to list the date the testing for each task was completed.

**Recognition:**  
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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<th>START TIME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Calculate the bend allowance, develop the stretchout, and fabricate two sections of nested channel (dimensions and metal gauge at the instructor’s discretion).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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# Performance Profile Sheet

Craft: Sheet Metal Level 2  
Module: 04207  
Module Title: Soldering

TRAINEE NAME: ________________________________  
TRAINING PROGRAM SPONSOR: ________________________________  
INSTRUCTOR: ________________________________

## Rating Levels:

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

Be sure to list the date the testing for each task was completed.

## Recognition:

When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Clean and forge a soldering iron.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Tin a soldering iron.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Tack-solder to hold two pieces in the horizontal position.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Solder a lap seam in the flat position.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Form, set, and solder a groove-locked seam.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Solder a bottom seam on a round container.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Properly set up and shut down an acetylene single-tank torch set.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Properly prep and solder copper tubing in various planes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Use a tachometer to measure blower motor rpm.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2</td>
<td>2. Read and interpret equivalent length charts and required air volume/duct size charts.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3. Use a manometer to measure static pressure in a duct system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>4. Use a velometer to measure the velocity of airflow at the output of air system supply diffusers and registers.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5. Use a velometer to calculate system cfm.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>