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 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 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. 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 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 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.
**Objective** | **TASK** | **RATING**
--- | --- | ---
3 | 1. Set up plasma arc cutting equipment. | 
3 | 2. Set the amperage and gas pressures or flow rates for the type and thickness of metal to be cut. | 
4 | 3. Square-cut metal using plasma arc cutting equipment. | 
continued
Craft: Boilermaking  
Module One: 29103-09  
Module Title: Plasma Arc Cutting

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5. Pierce and cut slots in metal using plasma arc cutting equipment.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>6. Dismantle and store the equipment.</td>
<td></td>
</tr>
</tbody>
</table>
Craft: Boilermaking
Module Two: 34301-11
Module Title: Boiler Pressure Components

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify the pressure components of a boiler and their locations.</td>
<td></td>
</tr>
</tbody>
</table>
Craft: Boilermaking
Module Three: 34302-11
Module Title: Boiler Nonpressure Components

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify the nonpressure components of a boiler and their locations.</td>
<td></td>
</tr>
</tbody>
</table>
PERFORMANCE PROFILE SHEET

Craft: Boilermaking

Module Four: 34306-11

Module Title: Boiler Auxiliaries

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 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 - 6</td>
<td>1. Identify the process flow components of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Water system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Fuel system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Ash removal system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Feed water system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Air flow system</td>
<td></td>
</tr>
</tbody>
</table>

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Module Five: 34305-11 has no Performance Profile Sheet; no performance testing is required for this module.
Craft: Boilermaking
Module Six: 34303-11
Module Title: Advanced Tube Work

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1. Measure, roll, and install a rolled tube in a tube sheet.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Measure the ID of the tube sheet hole.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Measure the OD of the tube.</td>
<td></td>
</tr>
</tbody>
</table>

Recognition:
When testing for the NCCER Standardized Craft Training Program, be sure to record Performance testing results on 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.
## Objective | TASK
--- | ---
• Calculate the required ID of the tube with the proper wall reduction. | 
• Install the tube with the proper extension. | 
• Swage or stake the tube. | 
• Soft-roll the tube. | 
• Hard-roll the tube. | 
• Measure the ID of the tube. | 
2 | 2. Remove a tube from the tube sheet and wash out the tube using oxyfuel. | 
2 | 3. Properly clean a tube sheet. |
**Objective** | **TASK** | **RATING**
---|---|---
1 | 1. Perform pretest requirements. | 
2 | 2. Perform service and flow tests. | 
3 | 3. Perform head pressure tests. | 
4 | 4. Perform hydrostatic tests. | 

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.
**PERFORMANCE PROFILE SHEET (PAGE 1 OF 2)**

**Craft:** Boilermaking  
**Module Eight:** 15206-07  
**Module Title:** Rigging

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**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 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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<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify and explain rigging hardware and equipment.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Inspect rigging equipment.</td>
<td></td>
</tr>
</tbody>
</table>

**Objective**  
**TASK**  
**RATING**

continued
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3. Select, use, and maintain the following rigging equipment:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Chain hoists</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Come-alongs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Jacks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Tuggers</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>4. Explain load balancing.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>5. Read and interpret lifting capacity charts.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>6. Tie knots used in rigging.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>7. Show the following hand signals:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Stop</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Emergency stop</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Hoist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lower</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Move slowly</td>
<td></td>
</tr>
</tbody>
</table>
Craft: Boilermaking
Module Nine: 34307-11
Module Title: Towers and Exchangers

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 Training Report Form
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Certified Plus Credential:  Trainees who successfully complete these performance tasks may be
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<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1. Identify the components of a tower.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2. Identify the components of an exchanger.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3. Read and interpret tower and exchanger drawings.</td>
<td></td>
</tr>
</tbody>
</table>