

## **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.

**Craft: Boilermaking**

**Module One: 29103-09**

**Module Title: Plasma Arc Cutting**



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.

| 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.  |        |

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**Craft: Boilermaking**

**Module One: 29103-09**

**Module Title: Plasma Arc Cutting**



| Objective | TASK   | RATING |
|-----------|--|--------|
| 4         | 4. Bevel-cut metal using plasma arc equipment.                       |        |
| 4         | 5. Pierce and cut slots in metal using plasma arc cutting equipment. |        |
| 5         | 6. Dismantle and store the equipment.                                |        |

**Craft: Boilermaking**

**Module Two: 34301-11**

**Module Title: Boiler Pressure Components**



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.

| <b>Objective</b> | <b>TASK</b>  | <b>RATING</b> |
|------------------|--|---------------|
| 1                | 1. Identify the pressure components of a boiler and their locations. |               |

**Craft: Boilermaking**

**Module Three: 34302-11**

**Module Title: Boiler Nonpressure Components**



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.

| <b>Objective</b> | <b>TASK</b>   | <b>RATING</b> |
|------------------|---|---------------|
| 1                | 1. Identify the nonpressure components of a boiler and their locations. |               |

**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.

| Objective | TASK  | RATING |
|-----------|---|--------|
| 1 - 6     | 1. Identify the process flow components of the following: |        |
|           | • Water system  |        |
|           | • Fuel system   |        |
|           | • Ash removal system                                      |        |
|           | • Feed water system                                       |        |
|           | • Air flow system   |        |

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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**



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.

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| Objective | TASK   | RATING |
|-----------|--|--------|
| 3         | 1. Measure, roll, and install a rolled tube in a tube sheet.                               |        |
|           | <ul style="list-style-type: none"> <li>• Measure the ID of the tube sheet hole.</li> </ul> |        |
|           | <ul style="list-style-type: none"> <li>• Measure the OD of the tube.</li> </ul>            |        |

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**Craft: Boilermaking**

**Module Six: 34303-11**

**Module Title: Advanced Tube Work**



| Objective | TASK  | RATING |
|-----------|---|--------|
|           | <ul style="list-style-type: none"> <li>Calculate the required ID of the tube with the proper wall reduction.</li> </ul> |        |
|           | <ul style="list-style-type: none"> <li>Install the tube with the proper extension.</li> </ul>                           |        |
|           | <ul style="list-style-type: none"> <li>Swage or stake the tube.</li> </ul>  |        |
|           | <ul style="list-style-type: none"> <li>Soft-roll the tube.</li> </ul>   |        |
|           | <ul style="list-style-type: none"> <li>Hard-roll the tube.</li> </ul>   |        |
|           | <ul style="list-style-type: none"> <li>Measure the ID of the tube.</li> </ul>   |        |
| 2         | 2. Remove a tube from the tube sheet and wash out the tube using oxyfuel.   |        |
| 2         | 3. Properly clean a tube sheet.   |        |

**Craft: Boilermaking**

**Module Seven: 34308-11**

**Module Title: Testing Piping Systems and Equipment**



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.

| 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.      |        |

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**Craft: Boilermaking**

**Module Eight: 15206-07**

**Module Title: Rigging**



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.

| Objective | TASK  | RATING |
|-----------|---|--------|
| 1         | 1. Identify and explain rigging hardware and equipment. |        |
| 2         | 2. Inspect rigging equipment.                           |        |

continued

**Craft: Boilermaking**

**Module Eight: 15206-07**

**Module Title: Rigging**



| Objective | TASK   | RATING |
|-----------|--|--------|
| 3         | 3. Select, use, and maintain the following rigging equipment:      |        |
|           | <ul style="list-style-type: none"> <li>• Chain hoists</li> </ul>   |        |
|           | <ul style="list-style-type: none"> <li>• Come-alongs</li> </ul>    |        |
|           | <ul style="list-style-type: none"> <li>• Jacks</li> </ul>          |        |
|           | <ul style="list-style-type: none"> <li>• Tuggers</li> </ul>        |        |
| 7         | 4. Explain load balancing.   |        |
| 6         | 5. Read and interpret lifting capacity charts.                     |        |
| 4         | 6. Tie knots used in rigging.                                      |        |
| 5         | 7. Show the following hand signals:                                |        |
|           | <ul style="list-style-type: none"> <li>• Stop</li> </ul>           |        |
|           | <ul style="list-style-type: none"> <li>• Emergency stop</li> </ul> |        |
|           | <ul style="list-style-type: none"> <li>• Hoist</li> </ul>          |        |
|           | <ul style="list-style-type: none"> <li>• Lower</li> </ul>          |        |
|           | <ul style="list-style-type: none"> <li>• Move slowly</li> </ul>    |        |

**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 200, and submit the results to the Training Program Sponsor.

| <b>Objective</b> | <b>TASK</b>   | <b>RATING</b> |
|------------------|---|---------------|
| 3                | 1. Identify the components of a tower.              |               |
| 4                | 2. Identify the components of an exchanger.         |               |
| 6                | 3. Read and interpret tower and exchanger drawings. |               |

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