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 15301-08 has no Performance Profile Sheet; no performance testing is required for this module.
# Performance Profile Sheet (Page 1 of 2)

**Craft:** Millwright  
**Module Number:** 15302-08  
**Module Title:** Precision Measuring Tools

## Objective | TASK |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Use levels.</td>
</tr>
<tr>
<td>2</td>
<td>2. Use calipers.</td>
</tr>
<tr>
<td>3</td>
<td>3. Use micrometers.</td>
</tr>
<tr>
<td>4</td>
<td>4. Use dial indicators.</td>
</tr>
</tbody>
</table>

## 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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PRECISION MEASURING TOOLS — MODULE 15302-08 PERFORMANCE PROFILE
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>5. Use universal bevel protractors.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>6. Use gauge blocks.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>7. Use speed measurement tools.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>8. Use pyrometers.</td>
<td></td>
</tr>
</tbody>
</table>
Objective | TASK | RATING
---|---|---
1 | 1. Identify the types of packing. | 
2 | 2. Identify packing materials. | 
3 | 3. Remove packing. | 
4 | 4. Install compression packing. | 
4 | 5. Install lip-type packing. | 

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.
Objective | TASK | RATING
--- | --- | ---
1 | 1. Identify seals and seal materials. | 
3 | 2. Remove and install seals. | 

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<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify types of mechanical seals.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2. Remove, inspect, and install mechanical seals.</td>
<td></td>
</tr>
</tbody>
</table>
Objective TASK RATING

3 1. Remove a defective bearing using manual pullers and/or a press.

5 2. Install a new bearing by heating the bearing or applying pressure.

6 3. Install a pillow block bearing.
## PERFORMANCE PROFILE SHEET

### Craft: Millwright

### Module Number: 15307-08

### Module Title: Couplings

---

**TRAINEE NAME:** _____________________________________________________________

**TRAINEE SOCIAL SECURITY NUMBER:** _________________________________________

**CLASS:** __________________________________________________________________

**TRAINING PROGRAM SPONSOR:** _______________________________________________

---

**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 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</td>
<td>1. Identify and explain coupling types.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Install an interference coupling.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3. Install a slip-fit coupling.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4. Remove couplings using either the manual or hydraulic method.</td>
<td></td>
</tr>
</tbody>
</table>

---

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Objective TASK RATING

1 1. Identify types of shim stock.

2 2. Identify shim materials.

3 3. Fabricate shims.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify types of jigs.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Fabricate one or more of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Angle iron jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Chain jig</td>
<td></td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Christmas tree jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Piano wire jig</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Set up three or more of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Angle iron jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Chain jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Complex reverse-indicator jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Christmas tree jig</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Piano wire jig</td>
<td></td>
</tr>
</tbody>
</table>
**Objective** | **TASK** | **RATING**
---|---|---
1 | 1. Inspect equipment. | 
2 | 2. Install couplings, using either the key and setscrew or the tapered shaft and locking nut method. | 
3 | 3. Set STAT equipment. | 
4 | 4. Set MTBM equipment. |
## Objective TASK Rating

1. Identify belt drive types. Passed
2. Install belt drives. Passed
3. Identify chain drive types. Passed
4. Install chain drives. Passed
Objective TASK  RATING

1  1. Identify types of fans.  

1  2. Identify centrifugal fan wheel types.  

3  3. Identify types of blowers.  

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.