

## **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 a 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.



**Module 15401-08 has no Performance Profile Sheet;  
no performance testing is required for this module.**

**Craft: Millwright**

**Module Number: 15402-08**

**Module Title: Troubleshooting and Repairing Conveyors**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Simulate splicing a belt.	
1-4	2. Repair one of the following:	
	<ul style="list-style-type: none"> <li>• A belt conveyor</li> </ul>	
	<ul style="list-style-type: none"> <li>• A chain conveyor</li> </ul>	

continued

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**Craft: Millwright**

**Module Number: 15402-08**

**Module Title: Troubleshooting and Repairing Conveyors**



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Objective	TASK	RATING
	<ul style="list-style-type: none"><li>• A screw conveyor</li></ul>	
	<ul style="list-style-type: none"><li>• A pneumatic conveyor</li></ul>	

**Craft: Millwright**

**Module Number: 15403-08**

**Module Title: Conventional Alignment**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
3	1. Check for coupling stress.	
3	2. Eliminate coupling stress.	
2	3. Set up dial indicators.	

continued

**Craft: Millwright**

**Module Number: 15403-08**

**Module Title: Conventional Alignment**



Contren® Learning Series

Objective	TASK	RATING
2	4. Determine sag of a conventional alignment jig.	
2	5. Level and align the driven on a base.	
2	6. Adjust vertical offset and angularity.	
2	7. Adjust horizontal offset and angularity.	
4	8. Take vertical offset and angularity measurements, using a dial indicator.	
4	9. Take horizontal offset and angularity measurements, using a dial indicator.	

**Craft: Millwright**

**Module Number: 15404-08**

**Module Title: Pumps**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Identify centrifugal pumps.	
2	2. Identify rotary pumps.	
3	3. Identify reciprocating pumps.	

continued



**Craft: Millwright**

**Module Number: 15404-08**

**Module Title: Pumps**



Contren® Learning Series

Objective	TASK	RATING
4	4. Identify metering pumps.	
5	5. Identify vacuum pumps.	
7	6. Install a pump.	

**Craft: Millwright**

**Module Number: 15405-08**

**Module Title: Troubleshooting and Repairing Pumps**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1, 2	1. Inspect and/or troubleshoot a pump.	
5, 6	2. Disassemble and reassemble a pump.	

**Craft: Millwright**

**Module Number: 15406-08**

**Module Title: Compressors and Compressor Maintenance**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
3	1. Identify various types of compressors.	
4	2. Troubleshoot compressors.	
5	3. Replace compressor components.	

**Craft: Millwright**

**Module Number: 15407-08**

**Module Title: Basic Pneumatic Systems**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

<b>Objective</b>	<b>TASK</b>	<b>RATING</b>
2	1. Identify at least four components of basic pneumatic equipment.	

**Craft: Millwright**

**Module Number: 15408-08**

**Module Title: Troubleshooting and Repairing  
Pneumatic Equipment**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2	1. Inspect pneumatic system components.	
4	2. Disassemble components.	
4	3. Reassemble components.	

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**Craft: Millwright**

**Module Number: 15409-08**

**Module Title: Basic Hydraulic Systems**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
4	1. Identify at least four hydraulic system components.	
5, 6	2. Identify hydraulic pumps and motors.	

**Craft: Millwright**

**Module Number: 15410-08**

**Module Title: Troubleshooting and Repairing Hydraulic Equipment**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.Á

Objective	TASK	RATING
1	1. Inspect hydraulic system components.	

continued

**Craft: Millwright**

**Module Number: 15410-08**

**Module Title: Troubleshooting and Repairing Hydraulic Equipment**



Contren® Learning Series

Objective	TASK	RATING
4, 5	2. Troubleshoot and repair or replace at least three of the following:	
	<ul style="list-style-type: none"> <li>• Hydraulic fluid reservoirs</li> </ul>	
	<ul style="list-style-type: none"> <li>• Filters and strainers</li> </ul>	
	<ul style="list-style-type: none"> <li>• Hydraulic pumps</li> </ul>	
	<ul style="list-style-type: none"> <li>• Hydraulic motors</li> </ul>	
	<ul style="list-style-type: none"> <li>• Control valves</li> </ul>	
	<ul style="list-style-type: none"> <li>• Cylinders</li> </ul>	
	<ul style="list-style-type: none"> <li>• Hoses</li> </ul>	
	<ul style="list-style-type: none"> <li>• Fittings</li> </ul>	
	<ul style="list-style-type: none"> <li>• Gauges</li> </ul>	



**Craft: Millwright**

**Module Number: 15411-08**

**Module Title: Troubleshooting and Repairing Gearboxes**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Identify types of gearboxes.	
2	2. Identify types of gears.	
4	3. Troubleshoot a gearbox.	

continued

**Craft: Millwright**

**Module Number: 15411-08**

**Module Title: Troubleshooting and Repairing Gearboxes**



Contren® Learning Series

Objective	TASK	RATING
5	4. Disassemble and reassemble a gearbox.	
6	5. Identify gear wear patterns.	
7	6. Measure backlash and bearing clearance.	