

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.

Craft: Industrial Maintenance E & I Technician

Module Number: 40102-07

Module Title: Tools of the Trade



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. Correctly use a pipe vise.	
3	2. Correctly use a pipe threading machine.	
3	3. Correctly use a cut-off machine.	
3	4. Correctly use a portable power drive.	
2, 3	5. Demonstrate inspection and basic maintenance of tools chosen by the instructor.	

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Craft: Industrial Maintenance E & I Technician

Module Number: 40103-07

Module Title: Fasteners and Anchors



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
5	1. Install selected threaded fasteners.	
5	2. Install selected screws.	
5	3. Install selected anchors.	
5	4. Install selected toggle bolts.	

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Craft: Industrial Maintenance E & I Technician

Module Number: 40104-07

Module Title: Oxyfuel 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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2	1. Set up oxyfuel equipment.	
3	2. Light and adjust an oxyfuel torch.	
4, 5	3. Shut down and disassemble oxyfuel equipment.	

continued

Craft: Industrial Maintenance E & I Technician

Module Number: 40104-07

Module Title: Oxyfuel Cutting



Objective	TASK	RATING
7	4. Perform oxyfuel cutting:	
	a. Straight line and square shapes	
	b. Piercing and slot cutting	
	c. Bevels	
	d. Washing	
8	5. Operate a track burner.	

Craft: Industrial Maintenance E & I Technician

Module Number: 40105-07

Module Title: Gaskets and Packing



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. Layout and install a gasket.	
7	2. Cut and install packing.	
6	3. Install O-rings.	

**Module 40106-07 has no Performance Profile Sheet;
no performance testing is required for this module.**

Craft: Industrial Maintenance E & I Technician

Module Number: 40107-07

Module Title: Construction Drawings



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. Identify parts of a drawing:	
	<ul style="list-style-type: none"> • Title block 	
	<ul style="list-style-type: none"> • Scales and measurements 	
	<ul style="list-style-type: none"> • Symbols and abbreviations 	

continued

Craft: Industrial Maintenance E & I Technician

Module Number: 40107-07

Module Title: Construction Drawings



Objective	TASK	RATING
	<ul style="list-style-type: none"> • Notes 	
	<ul style="list-style-type: none"> • Revision blocks 	
	<ul style="list-style-type: none"> • Coordinates 	
3	2. Identify the following:	
	<ul style="list-style-type: none"> • Drawing indexes 	
	<ul style="list-style-type: none"> • Line lists 	
1	3. Identify the following types of drawings:	
	<ul style="list-style-type: none"> • Plot plans 	
	<ul style="list-style-type: none"> • Structural drawings 	
	<ul style="list-style-type: none"> • Elevation and section drawings 	
	<ul style="list-style-type: none"> • Equipment arrangement drawings 	
	<ul style="list-style-type: none"> • P&IDs 	
	<ul style="list-style-type: none"> • Isometric drawings 	
	<ul style="list-style-type: none"> • Spool drawings 	
	<ul style="list-style-type: none"> • Schematics 	
	<ul style="list-style-type: none"> • Circuit diagrams 	
	<ul style="list-style-type: none"> • Orthographic drawings 	

Craft: Industrial Maintenance E & I Technician

Module Number: 40108-07

Module Title: Pumps and Drivers



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.	
4	4. Identify metering pumps.	
5	5. Identify vacuum pumps.	

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Craft: Industrial Maintenance E & I Technician

Module Number: 40109-07

Module Title: Valves



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.

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Objective	TASK	RATING
1	1. Identify types of valves that start and stop flow.	
2	2. Identify types of valves that regulate flow.	
3	3. Identify valves that relieve pressure.	

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**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40109-07**

**Module Title: Valves**



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Learning Series

| Objective | TASK                                                    | RATING |
|-----------|---------------------------------------------------------|--------|
| 4         | 4. Identify valves that regulate the direction of flow. |        |
| 5         | 5. Demonstrate how to properly store and handle valves. |        |
| 6         | 6. Identify valve locations and positions.              |        |

**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40110-07**

**Module Title: Introduction to Test Instruments**



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. Demonstrate the use of the following pieces of test equipment: |        |
|           | • Tachometer                                                      |        |
|           | • Pyrometer                                                       |        |
|           | • Multimeter                                                      |        |

continued

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**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40110-07**

**Module Title: Introduction to Test Instruments**



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Learning Series

| <b>Objective</b> | <b>TASK</b>                                                                     | <b>RATING</b> |
|------------------|---------------------------------------------------------------------------------|---------------|
|                  | <ul style="list-style-type: none"><li>• Voltage tester</li></ul>                |               |
|                  | <ul style="list-style-type: none"><li>• Strobe light</li></ul>                  |               |
| 1                | 2. Demonstrate the use of automated diagnostics tools chosen by the instructor. |               |

**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40111-07**

**Module Title: Material Handling and Hand 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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

| Objective | TASK                                                                          | RATING |
|-----------|-------------------------------------------------------------------------------|--------|
| 2         | 1. Perform a safety inspection on hooks, slings, and other rigging equipment. |        |
| 3         | 2. Select, inspect, and use special rigging equipment, including:             |        |
|           | <ul style="list-style-type: none"> <li>• Block and tackle</li> </ul>          |        |
|           | <ul style="list-style-type: none"> <li>• Chain hoists</li> </ul>              |        |

continued



**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40111-07**

**Module Title: Material Handling and Hand Rigging**



| Objective | TASK                                                            | RATING |
|-----------|-----------------------------------------------------------------|--------|
|           | <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>     |        |
| 4         | 3. Tie knots used in rigging.                                   |        |
| 6         | 4. Determine the center of gravity of a load.                   |        |
| 3         | 5. Properly attach rigging hardware for routine lifts.          |        |
| 5         | 6. Use and interpret hand signals.                              |        |
| 1         | 7. Perform sling tension calculations.                          |        |

**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40112-07**

**Module Title: Mobile and Support 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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

| <b>Objective</b> | <b>TASK</b>                            | <b>RATING</b> |
|------------------|----------------------------------------|---------------|
| 1                | 1. Describe an aerial lift inspection. |               |

**Craft: Industrial Maintenance E & I Technician**

**Module Number: 40113-07**

**Module Title: Lubrication**



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. Read and interpret an MSDS.                                 |        |
| 1, 2      | 2. Identify and use lubrication equipment to apply lubricants. |        |
| 1, 3      | 3. Read and interpret a lubrication chart.                     |        |

**Craft: Welding**

**Module Number: 29107-09**

**Module Title: SMAW – Equipment and Setup**



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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> |
|------------------|----------------------------------|---------------|
| 5                | 1. Set up a machine for welding. |               |