

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.

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.

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.

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
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.

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
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.

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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.

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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.

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
2	1. Identify parts of a drawing:	
	• Title block	
	• Scales and measurements	
	• 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.

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 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.

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 types of valves that start and stop flow.	
2	2. Identify types of valves that regulate flow.	
3	3. Identify valves that relieve pressure.	

continued

Craft: Industrial Maintenance E & I Technician

Module Number: 40109-07

Module Title: Valves



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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.

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

continued

Craft: Industrial Maintenance E & I Technician

Module Number: 40110-07

Module Title: Introduction to Test Instruments



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Objective	TASK	RATING
	<ul style="list-style-type: none"> • Voltage tester 	
	<ul style="list-style-type: none"> • Strobe light 	
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.

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
2	1. Perform a safety inspection on hooks, slings, and other rigging equipment.	
3	2. Select, inspect, and use special rigging equipment, including:	
	• Block and tackle	
	• Chain hoists	

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"> • Come-alongs 	
	<ul style="list-style-type: none"> • Jacks 	
	<ul style="list-style-type: none"> • Tuggers 	
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.

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. 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.

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. 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.

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
5	1. Set up a machine for welding.	