

## **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](http://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: Electronic Systems Technician**

**Module Number: 33301-11**

**Module Title: Buses and Networks**



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

Objective	TASK	RATING
4	1. Identify IP addresses of the devices on a network.	
2, 3, 4	2. Demonstrate various procedures for troubleshooting media access problems to a network.	
2, 3	3. Design a basic network.	
4, 5, 6	4. Demonstrate PC configuration of IP and serial connections.	

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**Craft: Electronic Systems Technician**

**Module Number: 33302-11**

**Module Title: Fiber Optics**



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

Objective	TASK	RATING
6	1. Perform a fiber optic termination.	
7	2. Test a fiber optic link.	

**Module 33303-11 has no Performance Profile Sheet;  
no performance testing is required for this module.**

**Craft: Electronic Systems Technician**

**Module Number: 33304-11**

**Module Title: Site Survey, Project Planning, and Documentation**



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

Objective	TASK	RATING
3	1. Interpret contract documents in order to determine the requirements for a selected job.	
4	2. Perform a survey in order to accomplish the following:	
	<ul style="list-style-type: none"> <li>• Compare the working drawings for the site against the actual building structure to identify specific locations and the work to be performed there.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Confirm the installed locations of new and/or existing equipment and the routing of the related cabling.</li> </ul>	

continued

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**Craft: Electronic Systems Technician**

**Module Number: 33304-11**

**Module Title: Site Survey, Project Planning, and Documentation**



Contren® Learning Series

Objective	TASK	RATING
	<ul style="list-style-type: none"> <li>• Measure the routing and length of selected cable pathways and raceways to verify measurements shown on floor plans and/or estimate takeoff sheets.</li> </ul>	
5	3. Use task and labor hours data recorded on estimating forms and/or takeoff sheets for a selected job to develop a detailed schedule for accomplishing the job.	

**Module 46101-11 has no Performance Profile Sheet;  
no performance testing is required for this module.**



**Craft: Electronic Systems Technician**

**Module Number: 33305-11**

**Module Title: Rack Assembly**



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

Objective	TASK	RATING
2	1. Select a rack unit for a given application.	
6	2. Prepare a rack layout drawing.	
7	3. Calculate power requirements and Btu dissipation for a rack installation.	
9	4. Properly install electronic equipment in a rack.	
8	5. Assemble a rack, including lacing rails.	

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**Craft: Electronic Systems Technician**

**Module Number: 33306-11**

**Module Title: System Commissioning and User Training**



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

Objective	TASK	RATING
3	1. Prepare and conduct a user training session.	

**Craft: Electronic Systems Technician**

**Module Number: 33307-11**

**Module Title: Maintenance and Repair**



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

Objective	TASK	RATING
3	1. Use ESD control devices and techniques when handling and troubleshooting ESD-sensitive equipment or components.	
4	2. Use manufacturers' troubleshooting aids to identify system problem(s).	
4	3. Determine if a power supply is good or bad.	
4	4. Determine if a printed circuit board is good or bad.	
5	5. Isolate the cause of a computer-related problem to the hardware or software.	
6	6. Isolate common faults in copper and fiber optic cable wired networks.	

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