

## NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. This examination is 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, and start and end times for each task in the rating boxes.
- 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 NCCER Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification.
2. The training must be delivered through an Accredited Training Sponsor recognized by NCCER.
3. The specific performance testing must be completed successfully.
4. The results of the testing must be recorded on the Registration of Training Modules Form. This form must be provided to the local Accredited Training Sponsor to be forwarded to the NCCER 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 that 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 Number: 26101-17 has no Performance Profile Sheet;  
performance testing is not required for this module.**

# Performance Profile Sheet (Page 1 of 1)

NCCER Training

Craft: Electrical Level One  
 Module: 26102-17  
 Module Title: Electrical Safety



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
2,4	Properly select and use PPE.				
4	Describe the safety requirements for an instructor-supplied task, such as replacing the lights in your classroom.				
	<ul style="list-style-type: none"> <li>Discuss the work to be performed and the hazards involved.</li> </ul>				
	<ul style="list-style-type: none"> <li>If a ladder is required, perform a visual inspection on the ladder and set it up properly.</li> </ul>				
	<ul style="list-style-type: none"> <li>Ensure that the local emergency telephone numbers are either posted or known by you and your partner(s).</li> </ul>				
	<ul style="list-style-type: none"> <li>Plan an escape route from the location in the event of an accident.</li> </ul>				

**Module Number: 26103-17 has no Performance Profile Sheet;  
performance testing is not required for this module.**

**Module Number: 26104-17 has no Performance Profile Sheet;  
performance testing is not required for this module.**

Craft: Electrical Level One  
 Module: 26105-17  
 Module Title: Introduction to the *National Electrical Code*<sup>®</sup>



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
2	Use <i>NEC Article 90</i> to determine the scope of the <i>NEC</i> <sup>®</sup> . State what is covered by the <i>NEC</i> <sup>®</sup> and what is not.				
2	Find the definition of the term <i>feeder</i> in the <i>NEC</i> <sup>®</sup> .				
2	Look up the <i>NEC</i> <sup>®</sup> specifications that you would need to follow if you were installing an outlet near a swimming pool.				
3	Find the minimum wire bending space required for two No. 1/0 AWG conductors installed in a junction box or cabinet and entering opposite the terminal.				

Craft: Electrical Level One  
 Module: 26106-17  
 Module Title: Device Boxes



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
1	Identify the appropriate box type and size for a given application.				
2	Select the minimum size pull or junction box for the following applications:				
	<ul style="list-style-type: none"> <li>Conduit entering and exiting for a straight pull.</li> </ul>				
	<ul style="list-style-type: none"> <li>Conduit entering and exiting at an angle.</li> </ul>				

# Performance Profile Sheet (Page 1 of 1)

NCCER Training

Craft: Electrical Level One  
 Module: 26107-17  
 Module Title: Hand Bending



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
1	Make 90° bends, back-to-back bends, offsets, and saddle bends using a hand bender.				
2	Cut, ream, and thread conduit.				



# Performance Profile Sheet (Page 1 of 1)

NCCER Training

Craft: Electrical Level One  
 Module: 26108-17  
 Module Title: Raceways and Fittings



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
1	Identify the appropriate conduit body for a given application.				
2	Identify and select various types and sizes of raceways, fittings, and fasteners for a given application.				
2	Demonstrate how to install a raceway system.				
2	Terminate a selected raceway system.				

# Performance Profile Sheet (Page 1 of 1)

NCCER Training

Craft: Electrical Level One  
Module: 26109-17  
Module Title: Conductors and Cables



Trainee Name:

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Training Program  
Sponsor:

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Instructor:

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**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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
2	Install conductors in a raceway system.				

**Craft:** Electrical Level One  
**Module:** 26110-17  
**Module Title:** Basic Electrical Construction Drawings



**Trainee Name:**

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**Training Program Sponsor:**

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**Instructor:**

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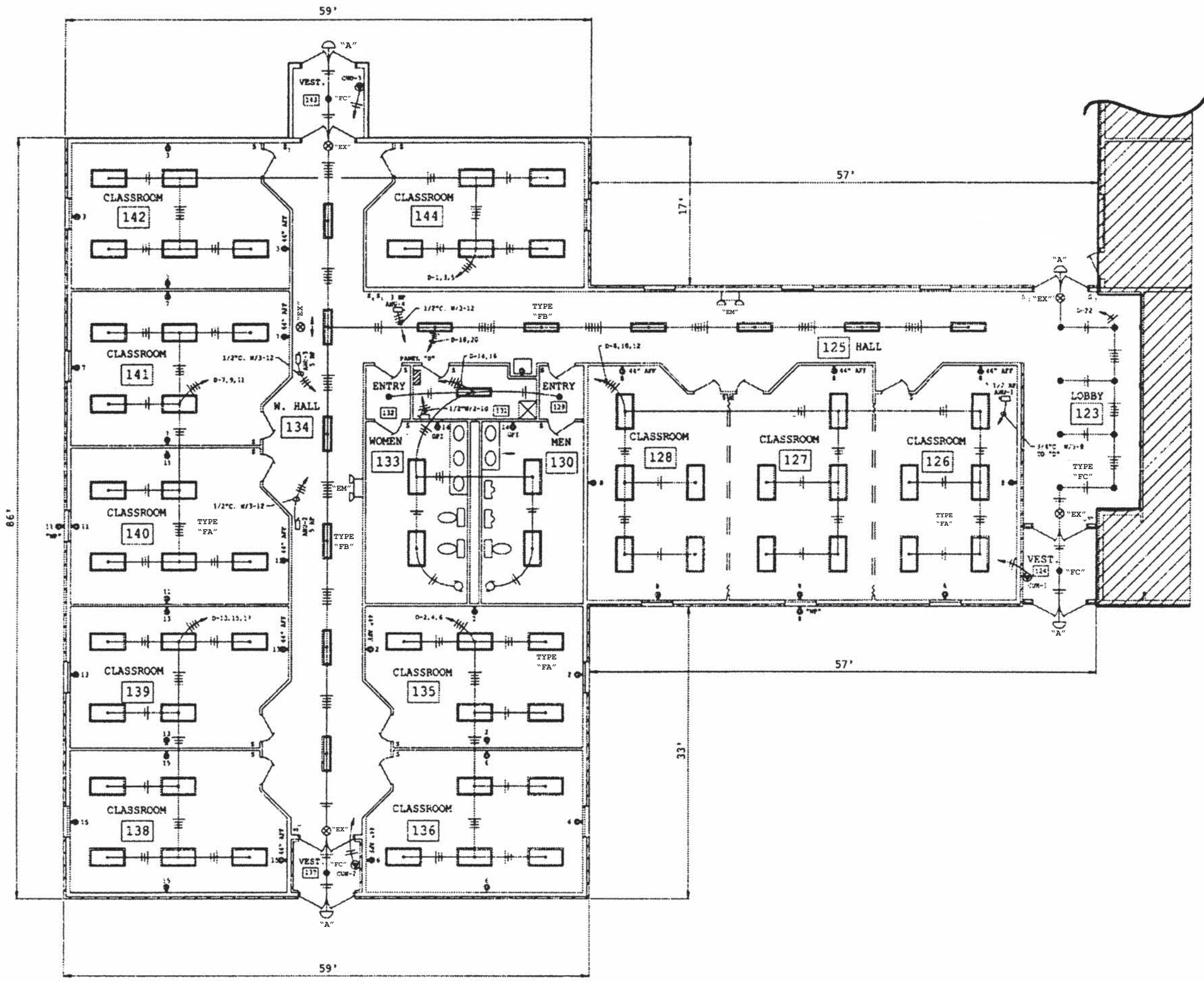
**Rating Levels:** (1) Passed: performed task (2) Failed: did not perform task  
 Also, list the date the testing for each task was completed.

**Recognition:** When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
2	Using an architect’s scale, state the actual dimensions of a given drawing component.				
3	Make a materials takeoff of the lighting fixtures specified in the provided drawing. The takeoff requires that all lighting fixtures be counted, and where applicable, the total number of lamps for each fixture type must be calculated. (Fill these in on the provided Lighting Fixture Takeoff worksheet.)				

*\*This Performance Profile Sheet comes with a drawing, worksheet, and worksheet answer key.*



Lighting Fixture Type	Manufacturer and Catalog Number	Number and Type of Lamps
FA	Lithonia LB 440	4-F40CS
FB	Lithonia LB 240	2-F20U
FC	Lithonia LP/RFB-3	INCL.
A	Hitek TWP 150	1-450HPS
EX	Lithonia XSIG-EL	INCL.
EM	Lithonia ELU-2	INCL.

**Module 26110-17: Basic Electrical Construction Drawings**

**WORKSHEET**

**Performance Profile Task Two**

**LIGHTING FIXTURE TAKEOFF**

<b>Lighting Fixture Type</b>	<b>Manufacturer and Catalog Number</b>	<b>Number and Type of Lamps</b>	<b>Total Number of Fixtures</b>	<b>Total Number of Lamps for Fixture Type</b>
FA	Lithonia LB 440	4-F40CS		
FB	Lithonia LB 240	2-F20U		
FC	Lithonia LP/RFB-3	INCL.		
A	Hitek TWP 150	1-450HPS		
EX	Lithonia XSIG-EL	INCL.		
EM	Lithonia ELU-2	INCL.		

Craft: Electrical Level One  
 Module: 26111-17  
 Module Title: Residential Electrical Services



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

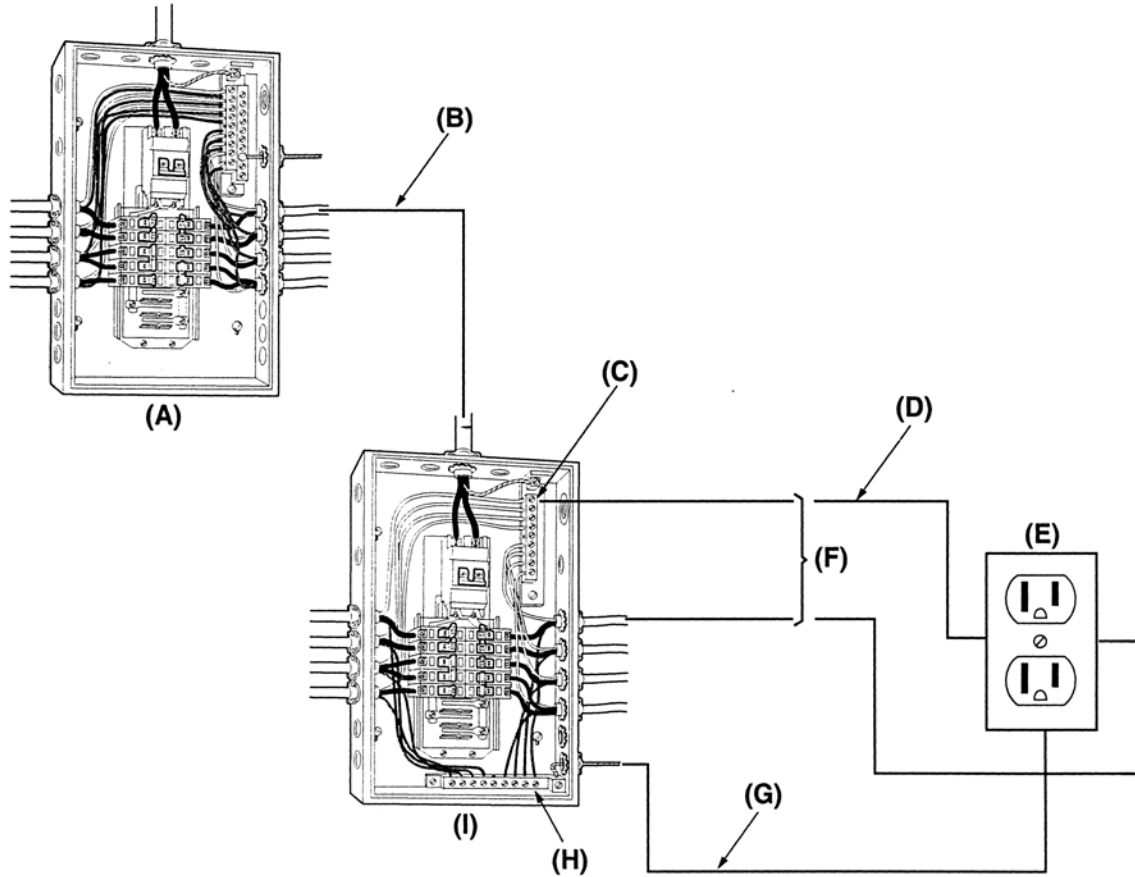
**Certified Plus Credential:** Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
1	For a residential dwelling of a given size, and equipped with a given list of major appliances, demonstrate or explain how to:				
	<ul style="list-style-type: none"> <li>• Compute lighting, small appliance, and laundry loads</li> </ul>				
	<ul style="list-style-type: none"> <li>• Compute the loads for large appliances</li> </ul>				
	<ul style="list-style-type: none"> <li>• Determine the number of branch circuits required</li> </ul>				
	<ul style="list-style-type: none"> <li>• Size and select the service-entrance conductors, panelboard, and protective devices</li> </ul>				
3	Using the provided unlabeled diagram of a panelboard, label the lettered components.				
5	Select the proper type and size outlet box needed for a given set of wiring conditions.				

*\*This Performance Profile Sheet comes with a worksheet and corresponding answer key.*

**Module 26111-17: Residential Electrical Services  
WORKSHEET  
Performance Profile Task Two**

**PANELBOARD DIAGRAM**



**Identify the Components:**

(A)	
(B)	
(C)	
(D)	
(E)	
(F)	
(G)	
(H)	
(I)	

# Performance Profile Sheet (Page 1 of 1)

NCCER Training

Craft: Electrical Level One  
 Module: 26112-17  
 Module Title: Electrical Test Equipment



Trainee Name: \_\_\_\_\_

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 Training Program, be sure to record Performance testing results on the Registration of Training Modules form, 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	DATE	START TIME	END TIME
2	Measure the voltage in the classroom from line to neutral and neutral to ground.				
2	Use an ohmmeter to measure the value of various resistors.				