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 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)**

**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.

---

<table>
<thead>
<tr>
<th>OBJECTIVE</th>
<th>TASK</th>
<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4</td>
<td>Properly select and use PPE.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Describe the safety requirements for an instructor-supplied task, such as replacing the lights in your classroom.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Discuss the work to be performed and the hazards involved.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• If a ladder is required, perform a visual inspection on the ladder and set it up properly.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Ensure that the local emergency telephone numbers are either posted or known by you and your partner(s).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Plan an escape route from the location in the event of an accident.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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Electrical Level One—Module 26102-17 Performance Profile
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.
<table>
<thead>
<tr>
<th>OBJECTIVE</th>
<th>TASK</th>
<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Use <em>NEC Article 90</em> to determine the scope of the <em>NEC</em>. State what is covered by the <em>NEC</em> and what is not.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Find the definition of the term <em>feeder</em> in the <em>NEC</em>.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Look up the <em>NEC</em> specifications that you would need to follow if you were installing an outlet near a swimming pool.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Electrical Level One—Module 26106-17 Performance Profile

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.

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<tr>
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<th>TASK</th>
<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identify the appropriate box type and size for a given application.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Select the minimum size pull or junction box for the following applications:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Conduit entering and exiting for a straight pull.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Conduit entering and exiting at an angle.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Performance Profile Sheet (Page 1 of 1)

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.

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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Make 90° bends, back-to-back bends, offsets, and saddle bends using a hand bender.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cut, ream, and thread conduit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

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<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identify the appropriate conduit body for a given application.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Identify and select various types and sizes of raceways, fittings, and fasteners for a given application.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Demonstrate how to install a raceway system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Terminate a selected raceway system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Electrical Level One  
Module: 26109-17  
Module Title: Conductors and Cables

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.

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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Install conductors in a raceway system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Electrical Level One—Module 26109-17 Performance Profile
Craft: Electrical Level One
Module: 26110-17
Module Title: Basic Electrical Construction Drawings

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.

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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Using an architect’s scale, state the actual dimensions of a given drawing component.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>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.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*This Performance Profile Sheet comes with a drawing, worksheet, and worksheet answer key.*
**LIGHTING FIXTURE TAKEOFF**

<table>
<thead>
<tr>
<th>Lighting Fixture Type</th>
<th>Manufacturer and Catalog Number</th>
<th>Number and Type of Lamps</th>
<th>Total Number of Fixtures</th>
<th>Total Number of Lamps for Fixture Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA</td>
<td>Lithonia LB 440</td>
<td>4-F40CS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FB</td>
<td>Lithonia LB 240</td>
<td>2-F20U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FC</td>
<td>Lithonia LP/RFB-3</td>
<td>INCL.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Hitek TWP 150</td>
<td>1-450HPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EX</td>
<td>Lithonia XSIG-EL</td>
<td>INCL.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EM</td>
<td>Lithonia ELU-2</td>
<td>INCL.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Electrical Level One—Module 26111-17 Performance Profile

**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.

<table>
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<tr>
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<th>END TIME</th>
</tr>
</thead>
</table>
| 1         | For a residential dwelling of a given size, and equipped with a given list of major appliances, demonstrate or explain how to:  
  • Compute lighting, small appliance, and laundry loads  
  • Compute the loads for large appliances  
  • Determine the number of branch circuits required  
  • Size and select the service-entrance conductors, panelboard, and protective devices | | | | |
| 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.*

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Electrical Level One—Module 26111-17 Performance Profile
Identify the Components:

<table>
<thead>
<tr>
<th>(A)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(B)</td>
<td></td>
</tr>
<tr>
<td>(C)</td>
<td></td>
</tr>
<tr>
<td>(D)</td>
<td></td>
</tr>
<tr>
<td>(E)</td>
<td></td>
</tr>
<tr>
<td>(F)</td>
<td></td>
</tr>
<tr>
<td>(G)</td>
<td></td>
</tr>
<tr>
<td>(H)</td>
<td></td>
</tr>
<tr>
<td>(I)</td>
<td></td>
</tr>
</tbody>
</table>
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.

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<tr>
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Measure the voltage in the classroom from line to neutral and neutral to ground.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Use an ohmmeter to measure the value of various resistors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 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: 26201-17 has no Performance Profile Sheet; performance testing is not required for this module.
Craft: Electrical Level Two  
Module: 26202-17  
Module Title: Motors: Theory and Application

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.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Identify various types of motors and their application(s).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Collect data from a motor nameplate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Connect the terminals for a dual-voltage motor.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Performance Profile Sheet (Page 1 of 1)

**Craft:** Electrical Level Two  
**Module:** 26203-17  
**Module Title:** Electric Lighting

**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.

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<th>START TIME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Properly select and install lamps into lighting fixtures.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Install one or more of the following lighting fixtures and their associated lamps: surface-mounted, recessed, suspended, and track-mounted.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Performance Profile Sheet (Page 1 of 1)

**Craft:** Electrical Level Two  
**Module:** 26204-17  
**Module Title:** Conduit 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.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–4</td>
<td>Use an electric or hydraulic bender to bend a stub-up to a precise distance above the deck.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1–4</td>
<td>Make an offset in a length of conduit to clear an obstruction with 1&quot; (25 mm) clearance between the pipe and the obstruction.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1–4</td>
<td>Make a saddle in a length of conduit to cross a pipe with 1&quot; (25 mm) clearance between the pipe and the conduit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBJECTIVE</td>
<td>TASK</td>
<td>RATING</td>
<td>DATE</td>
<td>START TIME</td>
<td>END TIME</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>--------</td>
<td>------</td>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td>1</td>
<td>Identify various NEMA boxes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Properly select, install, and support pull and junction boxes over 100 cu in (1,650 cu cm) in size.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Identify various conduit bodies and fittings.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Performance Profile Sheet (Page 1 of 1)

**Craft:** Electrical Level Two  
**Module:** 26206-17  
**Module Title:** Conductor Installations

| 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.

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<thead>
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<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–3</td>
<td>Prepare multiple conductors for pulling in a raceway system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1–3</td>
<td>Prepare multiple conductors for pulling using a wire-pulling basket.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Electrical Level Two  
Module: 26207-17  
Module Title: Cable Tray

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:  
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<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Generate a list of materials for a cable tray layout. List all the components required, including the fasteners required to complete the system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Join two straight, ladder-type cable tray sections together.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Electrical Level Two  
Module: 26208-17  
Module Title: Conductor Terminations and Splices  

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:  
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Terminate conductors using selected crimp-type and mechanical-type terminals and connectors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2</td>
<td>Terminate conductors on a terminal strip.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Insulate selected types of wire splices and/or install a motor connection kit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft:             Electrical Level Two
Module:         26209-17
Module Title:   Grounding and Bonding

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
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Size the minimum required grounding electrode conductor for a 200A service fed by 3/0 copper.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Using the proper fittings, connect one end of a No. 4 AWG bare copper grounding wire to a length of 3/4&quot; (MD 21) galvanized water pipe and the other end to the correct terminal in a main panelboard.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Install two lengths of Type NM cable in a switch box using Type NM cable clamps:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Strip the ends of the cable to conform to National Electrical Code® requirements.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Secure the cable in the switch box and tighten the cable clamps.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Connect and secure the equipment grounding conductors according to NEC® requirements, and secure to the switch box with either a ground clip or a grounding screw.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Performance Profile Sheet (Page 2 of 2)

**Craft:** Electrical Level Two  
**Module:** 26209-17  
**Module Title:** Grounding and Bonding

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>Size the minimum required equipment grounding conductor in each conduit for a 400A feeder gap using two parallel runs of 3/0 copper.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Size the minimum required bonding jumper for a copper water pipe near a separately derived system (transformer) where the secondary conductors are 500 kcmil copper.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Electrical Level 2--MODULE 26209-17 PERFORMANCE PROFILE
## Performance Profile Sheet (Page 2 of 2)

Craft: **Electrical Level Two**  
Module: **26209-17**  
Module Title: **Grounding and Bonding**

<table>
<thead>
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<td></td>
<td></td>
<td></td>
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</tbody>
</table>
### Performance Profile Sheet (Page 1 of 1)

**Craft:** Electrical Level Two  
**Module:** 26210-17  
**Module Title:** Circuit Breakers and Fuses

---

### 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.

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<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3</td>
<td>Identify the following on one or more circuit breaker(s) and fuse(s):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Number of poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Load rating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Voltage rating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Amperage interrupting rating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Electrical Level Two—Module 26210-17 Performance Profile
### Objective

<table>
<thead>
<tr>
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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Mount and connect a 120V lighting contactor with a three-wire pushbutton control.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 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: 26301-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26302-17 has no Performance Profile Sheet; performance testing is not required for this module.
**Performance Profile Sheet (Page 1 of 1)**

**Craft:** Electrical Level Three  
**Module:** 26303-17  
**Module Title:** Practical Applications of Lighting

---

**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.

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<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Using manufacturers’ catalogs, select the appropriate lighting fixtures for specific lighting situations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>While touring selected structures to observe their lighting systems:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Identify the various types of lighting fixtures used.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Explain the specific purpose(s) served by the different fixtures.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Identify the lighting system class of service.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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Electrical Level Three—Module 26303-17 Performance Profile
## OBJECTIVE

### TASK

Using two rigid metal conduit nipples, a sealing fitting, three pieces of No. 12 THHN conductors, and a packing fiber/sealing kit, perform the following operations:

- Secure one conduit nipple in each end of the seal.
- Make sure the required amount of threads are engaged.
- Pull the three THHN conductors through the nipples and seal so that about 6" is protruding from each nipple.
- Pack the fiber as per the instructions furnished with the sealing kit.

<table>
<thead>
<tr>
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<th>TASK</th>
<th>RATING</th>
<th>DATE</th>
<th>START TIME</th>
<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBJECTIVE</td>
<td>TASK</td>
<td>RATING</td>
<td>DATE</td>
<td>START TIME</td>
<td>END TIME</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>--------</td>
<td>------</td>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td>• Mix the sealing compound.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Position the unit in the required location and pour in the sealing compound.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Module Number: 26305-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26306-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26307-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26308-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26309-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26310-17 has no Performance Profile Sheet; performance testing is not required for this module.
**Craft:** Electrical Level Three  
**Module:** 26311-17  
**Module Title:** Motor Controls

<table>
<thead>
<tr>
<th>Trainee Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training Program Sponsor:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instructor:</th>
</tr>
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</table>

**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.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Make all connections for a magnetic motor controller, controlled by two pushbutton stations, including the connections for holding the circuit interlock.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Electrical Level Three—Module 26311-17 Performance Profile
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:

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- Safety precautions
- Procedures for each task to be tested

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- Set up the testing stations.
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- Provide adequate supervision to prevent injuries.
- Take immediate and effective action to remedy any emergency.

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1. The Craft Instructor must hold valid NCCER instructor certification.
2. The training must be delivered through an Accredited Training Sponsor recognized by NCCER.
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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: 26401-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26402-17 has no Performance Profile Sheet; performance testing is not required for this module.
Module Number: 26403-17 has no Performance Profile Sheet; performance testing is not required for this module.
Performance Profile Sheet (Page 1 of 1)

Craft: Electrical Level Four
Module: 26404-17
Module Title: Basic Electronic Theory

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.

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</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Test a transistor to determine whether it is an NPN or PNP.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Identify the cathode on three different styles of SCRs, using the shape or markings for identification.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Electrical Level Four—Module 26404-17 Performance Profile
**Performance Profile Sheet (Page 1 of 1)**

**Craft:** Electrical Level Four  
**Module:** 26405-17  
**Module Title:** Fire Alarm Systems

---

**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:**

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Connect selected fire alarm system(s).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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Electrical Level Four—Module 26405-17 Performance Profile
Craft: Electrical Level Four
Module: 26406-17
Module Title: Specialty Transformers

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.

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<tbody>
<tr>
<td>1</td>
<td>Identify various specialty transformers.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>Connect a buck-and-boost transformer to a single-phase circuit so that it will first be in the boost mode, and then in the buck mode. Record the voltage increase and decrease for each configuration.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>Using a clamp-on ammeter, demonstrate the principles of a current transformer; identify the primary winding, and then calculate and measure the effects of increasing the number of turns (loops) in the primary winding.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Craft: Electrical Level Four  
Module: 26407-17  
Module Title: Advanced Controls

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.

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<th>END TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Identify and connect various control devices.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Craft: Electrical Level Four
Module: 26408-17
Module Title: HVAC Controls

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.

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<tbody>
<tr>
<td>2</td>
<td>Identify various types of thermostats and describe their operation and uses.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Install a conventional 24-volt bimetal thermostat and hook it up using the standard coding system for thermostat wiring.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>Check and adjust a thermostat, including the heat anticipator setting and indicator adjustment.</td>
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</tr>
</tbody>
</table>
Craft: Electrical Level Four  
Module: 26409-17  
Module Title: Heat Tracing and Freeze Protection

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.

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<tr>
<td>1</td>
<td>Prepare and connect heat-tracing cable in a power connection box or splice box.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Module Number: 26410-17 has no Performance Profile Sheet; performance testing is not required for this module.
Craft: Electrical Level Four  
Module: 26411-17  
Module Title: Medium-Voltage Terminations/Splices  

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.

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<tbody>
<tr>
<td>1, 2</td>
<td>Prepare a cable and complete a splice or stress cone.</td>
<td></td>
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Electrical Level Four—Module 26411-17 Performance Profile
Performance Profile Sheet (Page 1 of 1)

Craft: Electrical Level Four
Module: 46101-17
Module Title: Fundamentals of Crew Leadership

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.

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<tr>
<td>4</td>
<td>Develop and present a look-ahead schedule.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Develop an estimate for a given work activity.</td>
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