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 NCCER's 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 Training Report Form 200. This form must be provided to the local Accredited Training Sponsor to be forwarded to NCCER's Registry Department.

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 26101-14 has no Performance Profile Sheet; no performance testing is required for this module.
**Objective** | **TASK**                                                                                                                                                                                                 | **RATING**
---|---|---
1 | 1. Perform a visual inspection on various types of ladders.                                                                                                                                                                                                 | 1 |
1 | 2. Set up a ladder properly to perform a task.                                                                                                                                                                                                 | 1 |
1 | 3. Properly don a harness.                                                                                                                                                                                                 | 1 |

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Craft: Electrical
Module Number: 26102-14
Module Title: Electrical Safety

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 4, 5</td>
<td>4. Perform a hazard assessment of a job such as replacing the lights in your classroom.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Discuss the work to be performed and the hazards involved.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Locate the closest phone to the work site and ensure that the local emergency telephone numbers are either posted at the phone or known by you and your partner(s).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Plan an escape route from the location in the event of an accident.</td>
<td></td>
</tr>
</tbody>
</table>
Module 26103-14 has no Performance Profile Sheet; no performance testing is required for this module.
Module 26104-14 has no Performance Profile Sheet; no performance testing is required for this module.
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>1. Use <strong>NEC Article 90</strong> to determine the scope of the <strong>NEC®</strong>. State what is covered by the <strong>NEC®</strong> and what is not.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2. Find the definition of the term <em>feeder</em> in the <strong>NEC®</strong>.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3. Look up the <strong>NEC®</strong> specifications that you would need to follow if you were installing an outlet near a swimming pool.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4. 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>
</tr>
</tbody>
</table>
### Objective 3
1. Identify the appropriate box type and size for a given application.

### Objective 4
2. Select the minimum size pull or junction box for the following applications:
   - Conduit entering and exiting for a straight pull
   - Conduit entering and exiting at an angle

---

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Objective  TASK RATING
---  ---------------  ---
3  1. Make 90° bends, back-to-back bends, offsets, kicks, and saddle bends using a hand bender.  
4  2. Cut, ream, and thread conduit.  

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### Objective

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Identify and select various types and sizes of raceways, fittings, and fasteners for a given application.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2. Demonstrate how to install a flexible raceway system.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3. Terminate a selected raceway system.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>4. Identify the appropriate conduit body for a given application.</td>
<td></td>
</tr>
</tbody>
</table>

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Craft: Electrical  
Module Number: 26109-14  
Module Title: Conductors and Cables

<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1. Install conductors in a raceway system.</td>
<td></td>
</tr>
</tbody>
</table>
**Objective**  | **TASK**                                                                                                                                                                                                 | **RATING**
---|---|---
4   | 1. Using an architect’s scale, state the actual dimensions of a given drawing component.                                                                                                            |   |
**Craft:** Electrical  
**Module Number:** 26110-14  
**Module Title:** Basic Electrical Construction Drawings  

### 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>
Craft: Electrical

Module Number: 26110-14

Module Title: Basic Electrical Construction Drawings

For Performance Task Two, please refer to the 11” × 17” Drawing included with this Exam
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 equipment (conductors, panelboard, and protective devices).
<table>
<thead>
<tr>
<th>Objective</th>
<th>TASK</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>2. Using an unlabeled diagram of a panelboard (Performance Profile Sheet 3), label the lettered components.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3. Select the proper type and size outlet box needed for a given set of wiring conditions.</td>
<td></td>
</tr>
</tbody>
</table>
Identify the Components:

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

1. Under instructor supervision, measure the voltage in your classroom from line to neutral and neutral to ground.

2. Under instructor supervision, use an ohmmeter to measure the value of various resistors.

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