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. 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 and submitted to the local Accredited Training Sponsor for approval through NCCER’s Registry system.

Certified Plus Credential

If 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. 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.
# Performance Profile Sheet

**Craft:** Mechanical Insulating  
**Module One:** 19309  
**Module Title:** Construction Drawings and Specifications

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**Trainee Name:** ____________________________________________________________  
**Training Program Sponsor:** ________________________________________________  
**Instructor:** _______________________________________________________________

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

**Recognition:** When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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<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>
</table>
| 1         | 1. Using a sample set of drawings provided by the instructor, identify the:  
• Plan view  
• Elevation view  
• Isometric view  
• Flow diagram |        |      |            |          |
| 1         | 2. Using a sample specification provided by the instructor, identify:  
• The type of base, securement, and finish materials required for the job.  
• The method of application for these materials.  
• The use of any approved alternate procedures or materials. |        |      |            |          |
Module Two: 19212 has no Performance Profile Sheet; performance testing is not required for this module.
Module Three: 19303 has no Performance Profile Sheet; performance testing is not required for this module.
**Performance Profile Sheet**

**Craft:** Mechanical Insulating  
**Module Four:** 19201  
**Module Title:** Flexible Foam Insulation

<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>1. Cut and install flexible foam insulation for fittings, valves, and flanges.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Cut and install flexible foam insulation for equipment and air ducts.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rating Levels:**  
1. Passed: performed task  
2. Failed: did not perform task  

Be sure to list the date the testing for each task was completed.

**Recognition:** When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

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Mechanical Insulating — Module 19201 V2 Performance Profile
Module Five: 19302 has no Performance Profile Sheet; performance testing is not required for this module.
## Objective Task Rating Date Start Time End Time

<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>1</td>
<td>Cut and install two pieces of fiberglass blanket insulation on ductwork using the staple stitch method and seal the butt laps with tape.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Seal butt laps on fiberglass blanket insulation using mastic.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Seal butt laps on fiberglass blanket insulation using adhesive.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Insulate a section of ductwork that includes a run-out.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Craft: Mechanical Insulating  
Module Seven: 19203  
Module Title: Board Insulation for Ducts

<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>1</td>
<td>1. Apply insulation weld pins to ductwork.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2. Apply fiberglass board insulation to straight duct and seal all joints with tape.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3. Kerf, lay out, and install board insulation for a rectangular branch duct.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Recognition:** When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.
### Objective | Task | Rating | Date | Start Time | End Time
--- | --- | --- | --- | --- | ---
1 | 1. Correctly mix insulating cements for various applications. |  |  |  |  
2 | 2. Cut to shape and fasten poultry mesh reinforcement to flat and curved surfaces. |  |  |  |  
2 | 3. Apply a fabric finish to built-up cement insulation on a pipe tee or a 90-degree elbow. |  |  |  |  

**Rating Levels:**
(1) Passed: performed task  
(2) Failed: did not perform task

Be sure to list the date the testing for each task was completed.

**Recognition:**
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.
Module Nine: 19304 has no Performance Profile Sheet; performance testing is not required for this module.
# Performance Profile Sheet

**Craft:** Mechanical Insulating  
**Module Ten:** 19211  
**Module Title:** Vapor Retarders and Insulation Coatings

## Trainee Name:

______________________________________________________________________________

## Training Program Sponsor:

__________________________________________________________________________________

## Instructor:

______________________________________________________________________________

### Rating Levels:
(1) Passed: performed task  
(2) Failed: did not perform task  
Be sure to list the date the testing for each task was completed.

### Recognition:
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.

<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>1</td>
<td>1. Apply glass and vapor-retarder mastic to a 90-degree pipe elbow insulated with polystyrene foam insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2. Apply glass fabric and vapor-retarder mastic to a longitudinal and butt end joints of piping insulation sections and to create vapor dams within insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3. Apply vapor retarder membrane on fiberglass pipe insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Module Eleven: 19305 has no Performance Profile Sheet; performance testing is not required for this module.
**Objective Task Rating Date Start Time End Time**

<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>1</td>
<td>Cut and attach pipe insulation using the staggered-joint method of insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Install an outer layer over an inner layer of insulation, staggering all joints and securing with stainless steel bands.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Fabricate and install a mitered 90-degree elbow cover from calcium silicate/perlite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Fabricate and install calcium silicate/expanded perlite insulation on a pipe tee.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rating Levels:** (1) Passed: performed task (2) Failed: did not perform task

Be sure to list the date the testing for each task was completed.

**Recognition:** When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.
**Objective Task Rating Date**

<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>1</td>
<td>1. Properly insulate pipe with rigid polymeric foam insulation for cold service.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2. Properly insulate 90-degree elbow with cellular-glass pipe insulation for cold service.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3. Properly insulate a stemmed valve for cold service.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rating Levels:**
- (1) Passed: performed task
- (2) Failed: did not perform task

Be sure to list the date the testing for each task was completed.

**Recognition:**
When testing for the NCCER Training Program, record performance testing results and submit them to your Training Program Sponsor through the Registry System.
Module Fourteen: 19306 has no Performance Profile Sheet; performance testing is not required for this module.
# Performance Profile Sheet

**Craft:** Mechanical Insulating  
**Module Fifteen:** 19205  
**Module Title:** Mineral Wool Insulation

<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>1</td>
<td>1. Apply V-groove pipe insulation to piping.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2. Apply metal-mesh blankets to equipment.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3. Set up a pin welder and gun and install a grouping of weld pins properly spaced.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>