



# **Insulating**

## **Level Three**

### **EXAMINATION PACKET**

### **Module 19304**

### **Adhesives and Their Uses**

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This packet contains the reproducible Module Examination, Answer Key, and Performance Profile Sheet(s).

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SECURE AREA!**

**NATIONAL CENTER FOR  
CONSTRUCTION EDUCATION AND RESEARCH**

Pearson Education, Inc.

Upper Saddle River, New Jersey Columbus, Ohio

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

Social Security Number: \_\_\_\_\_

- \_\_\_\_\_ 1. What is the correct definition of an adhesive?
- A glue
  - A sticky substance
  - A material or composition which allows two surfaces to be bonded
  - A paste
- \_\_\_\_\_ 2. What type of adhesive is used to install flexible foam insulation?
- Lagging adhesive
  - Contact adhesive
  - General purpose adhesive
  - Thermosetting adhesive
- \_\_\_\_\_ 3. Rubber-based adhesives are \_\_\_\_\_.
- solvent-based
  - water-based
  - not flammable in the wet stage
  - very dangerous, with an extremely high flame spread
- \_\_\_\_\_ 4. Which of the following surfaces may *not* be compatible with solvent-based adhesives?
- ASJ jacket
  - Foam plastic insulation
  - Insulation anchors
  - FSK jacket
- \_\_\_\_\_ 5. Which best describes the proper application of contact adhesive?
- Thin, even coats on both surfaces to be bonded
  - Heavy coat
  - Spot coat
  - Flood coat
- \_\_\_\_\_ 6. What would hot asphalt most likely be used for?
- Adhering calcium silicate segments
  - Adhering FSK jacket
  - Installing insulation anchors
  - Bonding insulation board to walls
- \_\_\_\_\_ 7. What is a major use of lagging adhesive?
- Installing cellular glass segments.
  - Installing fabric jackets on insulation.
  - Installing fiberglass insulation.
  - Installing calcium silicate insulation.

- \_\_\_\_\_ 8. Pipe insulation with self-sealing laps should \_\_\_\_\_.
- be applied to damp surfaces
  - be pulled together as tightly as possible
  - be stored in a humid place to prevent the adhesive from drying
  - have the lap rubbed down with a rubbing tool following installation
- \_\_\_\_\_ 9. Self-sealing laps are best applied \_\_\_\_\_.
- below freezing temperatures
  - at room temperature
  - above 120°F.
  - between 120°F and 150°F.
- \_\_\_\_\_ 10. Sodium silicate-based adhesives \_\_\_\_\_.
- can be used in almost any insulation application
  - are normally used only with calcium silicate pipe insulation
  - are usually sprayed on
  - are solvent-based

## **NOTE ON PERFORMANCE PROFILE TESTING**

Performance Profiles are included in this Instructor's Guide in a format that can be easily photocopied for each trainee. The Profiles measure trainee competency in the tasks taught in this module.

Please note the number of tasks to be tested while teaching this module. Each trainee should be tested on the tasks listed in the Performance Profile. Before the performance testing, the instructor should brief the trainees on:

- test objectives and criteria,
- safety precautions, and
- 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 for each trainee by assigning a score for each listed task;
- monitor adherence to all safety regulations and precautions;
- provide adequate supervision to prevent injuries; and
- take immediate and effective action to remedy any emergency.

## **ACCREDITATION TESTING**

If this Performance Profile Testing is done in 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.
2. The training must be delivered through a Training Program Sponsor recognized by the 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 Craft Training Report Form. This form must be provided to the local Training Program Sponsor to be forwarded to the NCCER National Craft Training Registry.

**Craft:** Insulating

**Task Module Number:** 19304

**Task Module Title:** Adhesives and Their Uses



TRAINEE NAME: \_\_\_\_\_

TRAINEE SOCIAL SECURITY NUMBER: \_\_\_\_\_

CLASS: \_\_\_\_\_

TRAINING PROGRAM SPONSOR: \_\_\_\_\_

INSTRUCTOR: \_\_\_\_\_

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

**Recognition:** When testing for the NCCER Standardized Craft Training Program, be sure to record Performance Profile testing results on Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Install fiberglass pipe insulation with a self-sealing lap system.	
2. Install fiberglass pipe insulation with a field-applied adhesive.	
3. Use a general purpose adhesive to apply insulation anchors to ductwork.	

## Answer Key to Module Examination

<u>Answer</u>	<u>Section</u>
1. c	1.0.0
2. b	2.3.0
3. a	2.2.0
4. b	2.2.0
5. a	2.3.0
6. d	2.7.0
7. b	2.5.0
8. d	2.1.0
9. b	2.1.0
10. b	2.6.0

