Insulating

Level Two

Module 19201
Installing Flexible Foam Insulation

EXAMINATION PACKET

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

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NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH

Pearson Education, Inc.

Upper Saddle River, New Jersey Columbus, Ohio

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Module Examination **TASK MODULE 19201** **Flexible Foam Insulation**

Name: _____ **Date:** _____

Social Security Number: _____

_____ 1. What is the maximum operating temperature at which most flexible foam insulation may be used?

a. 220 degrees F.
b. 750 degrees F.
c. 100 degrees F.
d. 120 degrees F.

_____ 2. What is required to cut flexible foam insulation?

a. Hack saw
b. Hand saw
c. Cross cut saw
d. Sharp knife

_____ 3. Adhesives for flexible foam insulation _____.

a. are solvent based
b. set up instantly
c. are red in color
d. can be uncovered for long periods of time

_____ 4. Flexible foam insulation can be slipped around a 90-degree elbow _____.

a. on copper tubing
b. on screwed fittings
c. when piping is concealed
d. Never.

_____ 5. Flexible foam insulation should be stretched _____.

a. around 45-degree ells
b. at butt joints
c. Never.
d. on equipment

_____ 6. Adhesive on flexible foam insulation should be applied _____.

a. as a 1/8" bead
b. on one surface only
c. below 50 degrees F.
d. as a thin layer on both surfaces

_____ 7. Fitting covers should be applied on screw thread joints _____.

a. after the pipe insulation has been applied
b. in the morning
c. before the pipe insulation has been applied
d. at operating temperature

_____ 8. Fitting covers should be applied to butt weld pipe _____.

a. after the pipe insulation has been applied
b. in the afternoon
c. before the pipe insulation is applied
d. at ambient temperature

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_____ 9. A template is _____.

a. a piece of insulation for pipe
b. a pattern
c. a part of the heating system
d. a tool used in electrical work

_____ 10. Which tool is used when laying out fitting covers on sheet material?

a. Tape measure
b. Dividers
c. Knife
d. All of the above.

_____ 11. When adhering elbow covers made from sheet material, what should you do first?

a. Tell your foreman
b. Check the humidity
c. Adhere the back seam
d. Adhere the butt seam

_____ 12. When building out the body of a flanged valve using flexible sheet material, you should _____.

a. determine the size of the flange
b. install scrap material
c. use adhesive
d. use sheet metal

_____ 13. When insulating a valve with sheet material, what should you do first?

a. Call the plumber
b. Insulate the bonnet flange
c. Install the donut
d. Paint the valve

_____ 14. When installing sheet insulation on a flanged valve, what should be used to measure the circumference of the flanged valve?

a. A folding rule
b. A tape measure
c. A piece of string
d. A strip of sheet foam

_____ 15. When insulating duct, which surface should be covered first?

a. All
b. Top
c. Bottom
d. End

_____ 16. Butt joints on equipment should be _____.

a. avoided
b. stretched
c. slightly compressed
d. insulated

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_____ 17. When insulating ductwork with sheet material, which surface(s) must be coated with adhesive?

a. Sheet material
b. Duct surface
c. Butt joints
d. Both the duct surface and sheet material

_____ 18. What are the standard wall thicknesses for flexible foam pipe insulation?

a. 1/16", 3/16", 5/16", and 7/16"
b. 3/32", 5/32", 9/32", and 11/32"
c. 1", 2", 3", and 4"
d. 3/8", 1/2", 3/4", and 1"

_____ 19. *Sleeving* refers to _____.

a. part of a jacket
b. a tool used in plumbing
c. placing pipe insulation over a smaller size pipe insulation
d. steam tracing

_____ 20. *Slip-on* method refers to _____.

a. slipping flexible foam insulation over pipe coated with adhesive
b. insulating flange valves
c. insulating duct stand-offs
d. pushing flexible foam on pipe that has open ends

_____ 21. A main is _____.

a. a run out
b. a bearing
c. a riser
d. distribution piping or duct that originates at the source

_____ 22. IPS refers to _____.

a. copper tubing
b. nominal size of iron piping
c. size of stainless steel tubing
d. outside diameter of iron piping

_____ 23. A divider is _____.

a. a wall between two areas
b. a tool used in layout work
c. used to apply adhesive
d. used to separate two-part adhesives

_____ 24. A short radius ell _____.

a. is horizontal
b. is found only in copper tubing
c. has a radius of 3 times the pipe diameter
d. has a radius equal to the pipe diameter

_____ 25. Circumference is _____.

a. the measurement across a cylindrical object
b. the distance between two points
c. the measurement around a cylindrical object
d. the measurement across 1/2 of a cylindrical object

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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.

PERFORMANCE PROFILE SHEET **NCCER/NIA TRAINING**

Craft: Insulating

Task Module Number: 19201

Task Module Title: Installing Flexible Foam Insulation

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. Identify the tools used to apply flexible foam insulation.	
2. Cut and install flexible foam pipe insulation.	
3. Cut and install flexible foam insulation for fittings, valves, and flanges.	
4. Cut and install flexible foam insulation for equipment and air ducts.	

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Answer Key to Module Examination

Answer		Section
1.	a	1.0.0
2.	d	1.0.0
3.	a	2.0.0
4.	d	3.0.0
5.	c	3.0.0
6.	d	2.0.0
7.	a	3.1.2
8.	c	3.1.2
9.	b	6.0.0
10.	d	6.0.0
11.	c	6.0.0
12.	b	6.1.0
13.	c	6.1.0
14.	d	6.1.0
15.	c	8.0.0
16.	c	8.0.0
17.	d	8.0.0
18.	d	1.0.0
19.	c	3.1.2
20.	d	3.0.0
21.	d	Trade Terms
22.	b	1.0.0
23.	b	6.0.0
24.	d	6.0.0
25.	c	Trade Terms