Insulating

Level L kb

Module 19106
Installing Fiberglass Pipe Insulation

EXAMINATION PACKET

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

STORE IN A SECURE AREA!

NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH

Pearson Education, Inc.

Upper Saddle River, New Jersey Columbus, Ohio

Copyright © . 663 by the National Center for Construction Education and Research.
All Rights Reserved.

Module Examination **TASK MODULE 19106** **Installing Fiberglass Pipe Insulation**

Name: _____ **Date:** _____

Social Security Number: _____

_____ 1. Fiberglass pipe insulation is _____.

a. rigid
b. cellular
c. semi-rigid
d. granular

_____ 2. Fiberglass pipe insulation should be stored _____.

a. covered and on pallets
b. in the open air
c. covered and on the ground
d. in the back of a truck

_____ 3. ASJ stands for _____.

a. Asbestos System Jacket
b. All Service Jacket
c. Amiglass System Jacket
d. American Standard Jacket

_____ 4. Jacket overlaps should be _____.

a. located in an inconspicuous place with the lap facing down
b. anywhere you want
c. on top of the pipe
d. on bottom of the pipe

_____ 5. You can cut fiberglass pipe insulation with _____.

a. a sharp knife
b. a keyhole saw
c. a band saw
d. All of the above.

_____ 6. Self-sealing laps _____.

a. are not used very often with fiberglass pipe insulation
b. should be easily visible
c. work very well when the weather is cold
d. work best when applied in temperatures above 60 degrees

_____ 7. The standard thicknesses for fiberglass insulation are _____.

a. 1 inch to 5 inches
b. 1 inch to 3 inches
c. 1/2 inch to 3 inches
d. 1/2 inch to 5 inches

_____ 8. If you were asked to get one section of 2 inch x 1 inch IPS fiberglass pipe insulation you would get _____.

a. 2 feet of insulation 2 inches thick to fit a 1 inch pipe
b. 3 feet of insulation 2 inches thick to fit a 1 inch pipe
c. 2 feet of insulation 1 inch thick to fit a 2 inch pipe
d. 3 feet of insulation 1 inch thick to fit a 2 inch pipe

Copyright © 1996 National Center for Construction Education and Research and National Insulation Association. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

_____ 9. The outside diameter of a 3 inch iron pipe measures _____.

a. more than 3 inches
b. less than 3 inches
c. exactly 3 inches
d. None of the above.

_____ 10. If the outside of a carton of fiberglass insulation is marked 3-1/8 inches x 1 inch, the insulation is probably _____.

a. mismarked
b. iron pipe insulation
c. copper pipe insulation
d. too old to use

_____ 11. Fish-mouths are _____.

a. caused by moisture in the insulation
b. the tools used to smooth out self-seal laps
c. the gaps in self sealing laps that have been improperly installed
d. rough edges of fiberglass pipe insulation

_____ 12. For peak efficiency, mitered ells and tees should be _____.

a. applied after all other insulation is installed
b. applied before the straight runs are installed
c. applied any time during the job
d. None of the above.

_____ 13. A riser is _____.

a. distribution piping that runs vertically through at least two levels
b. piece of equipment used to lift material
c. a catalyst for finishing cement
d. a plumbing fixture connected to a sprinkler head

_____ 14. A main or header is _____.

a. piping that connects directly to a heat exchanger
b. piping that connects directly to plumbing fixtures
c. a loop of piping in a steam system used to absorb expansion
d. distribution piping that runs from the source to runouts that is not connected to any fixtures

_____ 15. When insulating piping that is colder than ambient temperature, _____.

a. no jacketing is required
b. a PVC jacket is required
c. a vapor barrier is required at all penetrations
d. ASJ jacketing should not be used.

Copyright © 1996 National Center for Construction Education and Research and National Insulation Association. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

_____ 16. Rough handling of fiberglass pipe insulation will _____.

a. cause frayed ends and loosen the ASJ jacketing
b. not harm fiberglass pipe insulation
c. break fiberglass pipe insulation
d. None of the above.

_____ 17. The lap of the butt strip on ASJ jacketing _____.

a. ahould be opposite the lap on the jacketing
b. should line up with the lap on the jacketing
c. should never be stapled
d. does not come with a self-seal adhesive

_____ 18. If there are 10 sections of fiberglass pipe insulation in a carton, how many butt strips should there be?

a. 8
b. 12
c. 9
d. 10

_____ 19. When applying staples to ASJ jacketing on cold work _____.

a. paint them with a vapor seal mastic
b. put tape over them
c. put more staples than on hot work
d. put less staples than on hot work

_____ 20. Staples should be installed _____ from the edge of the lap.

a. 1 inch
b. 3 inches
c. 1/4 inch
d. 5 inches

Copyright © 1996 National Center for Construction Education and Research and National Insulation Association. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

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: 19106

Task Module Title: Installing FIberglass Pipe 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. Install fiberglass pipe insulation on straight run pipe with ASJ and SSL using butt strips on circumferential joints.	
2. Install fiberglass pipe insulation at an outside pipe hanger using rigid inserts.	
3. Install a tee.	
4. Saddle a smaller size pipe insulation to a larger size.	

Copyright © 1996 National Center for Construction Education and Research and National Insulation Association. Permission is granted to reproduce this page provided that copies are for local use only and that each copy contains this notice.

Answer Key to Module Examination

Answer	Section Reference
1. c	4.0.0
2. a	4.0.0
3. b	3.0.0
4. a	8.0.0
5. d	14.0.0
6. d	8.0.0
7. c	1.0.0
8. d	1.0.0, 2.0.0
9. a	Module 19105
10. c	2.0.0
11. c	8.0.0
12. b	12.0.0
13. a	6.0.0
14. d	6.0.0
15. c	10.0.0
16. a	4.0.0
17. b	9.0.0
18. d	4.0.0
19. a	10.0.0
20. c	10.0.0