Insulating

Level Three

Module 19305
Steam, Condensate, and Process Water Systems

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 19305** **Steam, Condensate, and Process Water Systems**

Name: _____ **Date:** _____

Social Security Number: _____

_____ 1. Steam is _____.

a. very hot water
b. vapor produced by boiling water
c. mist
d. smoke

_____ 2. Which of the following does *not* describe an overhead steam pipe location?

a. High line
b. Riser
c. PRV
d. Pipe rack

_____ 3. A steam pipe that connects to a boiler is called a boiler _____.

a. lead
b. header
c. discharge
d. supply

_____ 4. A steam header is usually located _____.

a. underground
b. in the attic
c. near the boiler
d. on the stack

_____ 5. Which of the following is a common use of a steam turbine?

a. Heating a building
b. Producing steam
c. Driving a pump
d. Cooling steam

_____ 6. Where in a steam pipe might a drip leg *not* be located?

a. Near the boiler
b. At low points
c. At high points
d. Near the coil

_____ 7. Why are roller-type supports used on steam pipe?

a. Ease of application
b. Different size pipe may be used
c. Easy removal of pipe
d. Allow movement of pipe

_____ 8. Expansion loops are installed in steam pipe to _____.

a. allow for expansion when pipe is cooled
b. slow flow of steam
c. allow for expansion when pipe is heated
d. allow for building movement

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Steam, Condensate, and Process Water Systems

_____ 9. Where might an anchor be located on a steam pipe?

a. Near the boiler
b. Away from the expansion loop
c. At the low point
d. At the expansion joint

_____ 10. Which is *not* a way to identify steam pipe?

a. Welded-type pipe supports with rollers
b. Drip legs at the low points on pipe
c. Expansion loops in long runs of pipe
d. Welded-type pipe supports that do not allow movement

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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.

Craft: Insulating

Task Module Number: 19305

Task Module Title: Steam, Condensate, and Process Water Systems

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 all elements of a steam system.	
2. Identify all elements of a condensate return system.	

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Answer Key to Module Examination

Answer	Section
1. b	1.0.0
2. c	1.2.0
3. a	2.0.0
4. c	2.0.0
5. c	2.4.0
6. c	3.0.0
7. d	4.1.0
8. c	4.1.0
9. b	4.1.0
10. d	6.0.0