



Insulating

Level Three

EXAMINATION PACKET

Module 19302
Air Duct Systems

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 © 1997 by the National Center for Construction Education and Research.
All Rights Reserved.

Name: _____ Date: _____

Social Security Number: _____

- | | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _____ | <p>1. Which of the following is <i>not</i> a standard air conditioning unit component?</p> <ul style="list-style-type: none"> a. Filter b. Cooling coil c. Reheat coil d. Fan | _____ | <p>5. Ductwork is normally insulated to _____.</p> <ul style="list-style-type: none"> a. conserve energy b. protect the metal c. control condensation d. Both a and c. |
| _____ | <p>2. If the supply duct from the air handler unit connects directly to the room air outlets, the duct is _____.</p> <ul style="list-style-type: none"> a. medium pressure b. low pressure c. high pressure d. exhaust | _____ | <p>6. A kitchen hood exhaust is insulated for _____.</p> <ul style="list-style-type: none"> a. fire prevention b. energy conservation c. condensation control d. Does not require insulation. |
| _____ | <p>3. Which of the following will <i>not</i> be connected to a supply air duct?</p> <ul style="list-style-type: none"> a. Room air inlet b. Supply air fan c. Fire damper d. Condensate drain | _____ | <p>7. Energy recovery systems may transfer heat using a _____.</p> <ul style="list-style-type: none"> a. heat wheel b. fire damper c. sound lining d. filter |
| _____ | <p>4. What duct system will be downstream of a terminal box?</p> <ul style="list-style-type: none"> a. Low pressure b. Dual duct c. High pressure d. Medium pressure | _____ | <p>8. Ambient temperature means the _____.</p> <ul style="list-style-type: none"> a. temperature of the supply duct b. temperature of the air handling unit c. temperature of the surrounding air d. ideal temperature of the surrounding air |

- _____ 9. Fire dampers are used _____.
- a. in air handlers
 - b. to decrease the temperature
 - c. to stop air flow in the event of a fire
 - d. only in high-pressure ducts
- _____ 10. Blanket insulation is normally used on _____ duct.
- a. exposed
 - b. concealed
 - c. factory-insulated
 - d. lined

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: 19302

Task Module Title: Air Duct 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. Using an unlabeled drawing of a low-pressure duct system, label the various components of the system.	
2. Using an unlabeled drawing of a medium- or high-pressure duct system, label the various components of the system.	

Answer Key to Module Examination

<u>Answer</u>	<u>Section</u>
1. c	2.1.0
2. b	2.1.0
3. d	3.1.0, 3.2.0
4. a	2.1.0
5. d	2.1.0
6. a	2.3.0
7. a	2.3.0
8. c	1.1.0
9. c	3.1.0
10. b	3.2.0

