

NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. This examination is designed to measure competency in the tasks taught in each module.

Please note the number of tasks to be tested while teaching each module. Each trainee should be tested on all the tasks listed on the Performance Profile Sheet(s). Before performance testing, the instructor should brief the trainees on:

- Test objectives and criteria
- Safety precautions
- 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(s) for each trainee by assigning a pass/fail score for each listed task. Also, include the testing date, and start and end times for each task in the rating boxes.
- Monitor adherence to all safety regulations and precautions.
- Provide adequate supervision to prevent injuries.
- Take immediate and effective action to remedy any emergency.

Performance Testing

If Performance Testing is done as part of NCCER's 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 an Accredited Training Sponsor recognized by NCCER.
3. The specific performance testing must be completed successfully.
4. The results of the testing must be recorded on Training Report Form 200. This form must be provided to the local Accredited Training Sponsor to be forwarded to NCCER's Registry Department.

Certified Plus Credential

Provided the sponsor is working through an NCCER-Accredited Assessment Center, candidates who successfully pass performance testing may be eligible for a Certified Plus Credential. A number of NCCER's Performance Profiles cross over to NCCER's Assessment Performance Verifications and may be completed simultaneously. Go to www.nccer.org and select the Assessments tab to locate the Performance Verifications associated with this craft.

Note that two other important conditions are required for the Certified Plus Credential:

1. Candidates must first pass the associated written assessment.
2. An NCCER-Accredited Assessment Administrator must sign off on the Performance Verification before it is submitted to NCCER.

**Module 03102-07 has no Performance Profile Sheet;
no performance testing is required for this module.**

Craft: Building Auditor Level Two

Module Number: 03107-07

Module Title: Introduction to Cooling



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
3	1. Measure temperatures in an operating air conditioning system.	
4	2. Use cylinder color codes to identify refrigerants.	
5	3. Identify compressors, condensers, evaporators, metering devices, controls, and accessories.	
7	4. Use service valves to gain access to an air conditioning system in order to measure pressures using a gauge manifold set.	

Craft: Building Auditor Level Two

Module Number: 03108-07

Module Title: Introduction to Heating



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
4	1. Identify the components of an induced draft and condensing gas furnace and state their purpose.	
6	2. With supervision, turn on and check a gas furnace.	
7	3. Identify symptoms of combustion problems in a gas furnace and adjust the manifold pressure.	

continued

Craft: Building Auditor Level Two

Module Number: 03108-07

Module Title: Introduction to Heating



Objective	TASK	RATING
10	4. With supervision, perform preventive maintenance procedures on a gas furnace, including filter replacement, cleaning of components, and temperature measurements.	
8	5. Identify the components of an oil furnace and state their purpose.	
8	6. With supervision, turn on and check an oil furnace.	
10	7. With supervision, perform preventive maintenance procedures on an oil furnace, including filter replacement, cleaning of components, and temperature measurements.	

Craft: Building Auditor Level Two

Module Number: 03202-07

Module Title: Chimneys, Vents, and Flues



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
5	1. Measure supply and return temperature and determine the temperature rise of a furnace.	
9	2. Adjust a thermostat heat anticipator.	
6	3. Calculate the correct size and type PVC pipe using manufacturer's instructions or <i>National Fuel Gas Code</i> or American Gas Association specifications.	
8	4. Calculate the correct size and type of furnace vent connector and metal vent using manufacturer's instructions or <i>National Fuel Gas Code</i> or American Gas Association specifications.	

Craft: Building Auditor Level Two

Module Number: 03203-07

Module Title: Introduction to Hydronic Systems



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
4	1. Demonstrate the safety precautions used when working on hot-water systems.	
2	2. Identify the major components of a selected hot-water heating system.	
5	3. Demonstrate how to safely perform selected operating procedures on hot-water boilers.	

continued

Craft: Building Auditor Level Two**Module Number: 03203-07****Module Title: Introduction to Hydronic Systems**

Objective	TASK	RATING
7	4. Identify the types of common piping configurations used with hot-water systems.	
9	5. Calculate heating water gpm requirements from base information provided by the instructor.	
10	6. Select a pump from manufacturer's data given the friction loss of a piping system and the gpm requirements from the previous performance task.	

Craft: Building Auditor Level Two

Module Number: 03407-09

Module Title: Heating and Cooling System Design



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
3	1. Develop a list of factors that affect heating and cooling loads.	
2	2. Develop a floor plan that contains all the information needed to perform a load estimate.	
4	3. Perform a load estimate using a standardized method.	
6	4. Use manufacturer's product data to select the appropriate heating and cooling equipment based on a load estimate and airflow requirements.	

continued

Craft: Building Auditor Level Two

Module Number: 03407-09

Module Title: Heating and Cooling System Design



Objective	TASK	RATING
7, 8, 9	5. Determine the number, location, and sizes of supply outlets and return inlets needed in a building.	
9	6. Use a friction chart and/or standard duct sizing tables to size the trunk and branch ducts for a selected low-volume air distribution system.	
7, 8, 9	7. Use a duct design calculator to size the trunk and branch ducts for a selected low-volume air distribution system.	
7, 8, 9	8. Calculate the total system friction loss (external static pressure) for a selected air distribution system.	

Craft: Building Auditor Level Two

Module Number: 03404-09

Module Title: Energy Conservation Equipment



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
10	1. Adjust an economizer for the proper setting in a local area.	

Craft: Building Auditor Level Two

Module Number: 03403-09

Module Title: Indoor Air Quality



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
5	1. Use selected radon monitors and/or test kits.	
3	2. Perform a building indoor air quality (IAQ) inspection/evaluation.	
6	3. Make air measurements using each of the following:	
	<ul style="list-style-type: none"> • Carbon dioxide (CO₂) detector/sensor 	
	<ul style="list-style-type: none"> • Carbon monoxide (CO) detector/sensor 	

continued

Craft: Building Auditor Level Two

Module Number: 03403-09

Module Title: Indoor Air Quality



Objective	TASK	RATING
	<ul style="list-style-type: none"> • Volatile organic compound (VOC) detector/sensor 	
	<ul style="list-style-type: none"> • Combustion analyzer 	
6	4. Use a manufacturer's humidifier capacity chart to find the humidifier capacity needed for various building types and sizes.	
6	5. Use a manufacturer's portable dehumidifier capacity chart to find the dehumidifier capacity needed for various building types and sizes.	
7	6. Clean and inspect ductwork using one or more approved methods:	
	<ul style="list-style-type: none"> • Contact vacuum 	
	<ul style="list-style-type: none"> • Air washing 	
	<ul style="list-style-type: none"> • Power brushing 	

**Module 03409-09 has no Performance Profile Sheet;
no performance testing is required for this module.**

Craft: Building Auditor Level Two

Module Number: 59202-10

Module Title: Performing a Building Audit



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

(1) Passed: performed task (2) Failed: did not perform task
Also, list the date the testing for each task was completed.

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

Objective	TASK	RATING
3	1. Demonstrate how to perform the following diagnostic tests:	
	<ul style="list-style-type: none"> • Blower door test 	
	<ul style="list-style-type: none"> • Pressure pan test 	
	<ul style="list-style-type: none"> • Burner efficiency test 	

continued

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Craft: Building Auditor Level Two

Module Number: 59202-10

Module Title: Performing a Building Audit



Objective	TASK	RATING
	<ul style="list-style-type: none"> • Carbon monoxide (CO) test 	
	<ul style="list-style-type: none"> • Draft test 	
	<ul style="list-style-type: none"> • Spillage test 	
4, 6, 7	2. Complete a building audit checklist and prepare a work order with material costs for the weatherization crew.	
6, 7	3. Use approved computer software to prepare a post-weatherization report showing energy savings resulting from the weatherization.	