

**Module 04201-08 has no Performance Profile Sheet;  
no performance testing is required for this module.**

**Module 04202-08 has no Performance Profile Sheet;  
no performance testing is required for this module.**

**Craft: Sheet Metal**

**Module Number: 04203-08**

**Module Title: Fabrication Two – Radial Line Development**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2, 3	1. Lay out and fabricate 7 of these 12 fittings:	
	• Rectangular weather cap	
	• Symmetrical tapered duct	
	• Roof pitch stack flange	

continued

**Craft: Sheet Metal**

**Module Number: 04203-08**

**Module Title: Fabrication Two – Radial Line Development**



Contren® Learning Series

Objective	TASK	RATING
	<ul style="list-style-type: none"> <li>• Cone-shaped exhaust weather cap</li> </ul>	
	<ul style="list-style-type: none"> <li>• Roof peak gravity ventilator</li> </ul>	
	<ul style="list-style-type: none"> <li>• Round duct intersecting a taper</li> </ul>	
	<ul style="list-style-type: none"> <li>• Tapered offset duct</li> </ul>	
	<ul style="list-style-type: none"> <li>• Two-way Y-branch</li> </ul>	
	<ul style="list-style-type: none"> <li>• Off-center tapered duct</li> </ul>	
	<ul style="list-style-type: none"> <li>• Square-to-square tapered duct</li> </ul>	
	<ul style="list-style-type: none"> <li>• Shoe tee intersecting a taper on center</li> </ul>	
	<ul style="list-style-type: none"> <li>• 90-degree tapered elbow</li> </ul>	

**Craft: Sheet Metal**

**Module Number: 04204-08**

**Module Title: Sheet Metal Duct Fabrication Standards**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1, 4, 5, 8	1. Using the example of shop standards located in the module, locate various standards for rectangular ducts in various instructor-specified pressure classes.	
6, 7	2. Using the example of shop standards located in the module, use tables, figures, and notes to determine correct hanger sizes and spacings to solve a duct hanging problem supplied by your instructor.	

**Craft: Sheet Metal**

**Module Number: 04205-08**

**Module Title: Air Properties and Distribution**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
4, 5	1. Perform two of the following tasks:	
	• Use a manometer to measure ESP (external static pressure).	
	• Use a sling psychrometer to calculate relative humidity.	
	• Use a flow hood to measure air volume out of a grille or diffuser.	

**Craft: Sheet Metal**

**Module Number: 04206-08**

**Module Title: Bend Allowances**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2, 4	1. Perform bend allowance calculations with the use of:	
	• Empirical formula	
	• Geometrical formula	
	• Approximate method	
3	2. Lay out and fabricate a mating hat channel.	

**Craft: Sheet Metal**

**Module Number: 04207-08**

**Module Title: Soldering**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2	1. Clean and forge a soldering iron.	
2	2. Tin a soldering iron.	
2	3. Tack solder to hold two pieces in the horizontal position.	
2	4. Solder a lap seam in the flat position.	

continued



**Craft: Sheet Metal****Module Number: 04207-08****Module Title: Soldering**

Contren® Learning Series

<b>Objective</b>	<b>TASK</b>	<b>RATING</b>
2	5. Pre-tin a seam.	
2	6. Form, set, and sweat solder a groove locked seam.	
2	7. Solder a bottom seam on a round container.	

**Craft: Sheet Metal**

**Module Number: 04208-08**

**Module Title: Basic Piping Practices**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Make a solvent-welded PVC joint.	
1	2. Cut and thread a ½-inch-diameter by 8-inch-long pipe nipple within ⅛-inch tolerance.	

**Craft: Sheet Metal**

**Module Number: 04209-08**

**Module Title: Fiberglass Duct**



Contren® Learning Series

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 Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
2	1. Lay out fiberglass duct.	
2	2. Fabricate fiberglass duct using at least two of the following methods:	
	• Centerline method	
	• Guide edge method	
	• Machine fabrication	

continued

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**Craft: Sheet Metal**

**Module Number: 04209-08**

**Module Title: Fiberglass Duct**



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Objective	TASK	RATING
3	3. Seal fiberglass duct using at least two of the following methods:	
	• Pressure-sensitive tape	
	• Heat-activated tape	
	• Mastic and glass fabric tape	
4	4. Fabricate selected duct modules and fittings using the appropriate tools.	
5	5. Hang and support fiberglass ducts.	
6	6. Repair major and minor damage to fiberglass duct.	