

# SHEET METAL

Sheet metal workers mainly work in installing ductwork for heating, ventilation, air conditioning, and refrigeration (HVACR), but there are many other opportunities. Sheet metal craftsmen might install metal roofing and gutters, decorative "Architectural Metals," install hoods and vents for restaurants or build grain silos for farmers. Some sheet metal workers specialize in fabricating ducts, hoods and gutters – others specialize in installation or service work. CITC's four-year program is designed to prepare the student for a large range of possibilities, covering topics such as fabrication and installation of various types of ductwork, reading blueprints and specifications, and advanced architectural sheet metal.



**NOTE: IT IS CRUCIAL THAT STUDENTS HAVE REQUIRED BOOKS PRIOR TO THE FIRST CLASS MEETING. A STUDENT WHO DOES NOT HAVE BOOKS BY THE END OF THE SECOND WEEK MAY BE SENT HOME AND BE CHARGED WITH AN ABSENCE.**

## SHEET METAL LEVEL 1

Minimum: 200 hours per year

### SHEET METAL 101: FALL QUARTER

Students will thoroughly review construction site safety and shop safety and are introduced to trade mathematics; safe use of basic hand and power tools; blueprint reading; rigging and an overview of sheet metal careers. *Schedule for lab dates will be handed out the first night of class each quarter.*

### SHEET METAL 102: WINTER QUARTER

Students will learn about sheet metal tools; are introduced to sheet metal layout and processes; sheet metal math; and fabrication of parallel line development.

### SHEET METAL 103: SPRING QUARTER

Students will learn about installation of ductwork; installation of air distribution accessories; insulation; and architectural sheet metal. Includes OSHA 10 training.

#### REQUIRED BOOKS - SHEET METAL LEVEL 1

*It is the student's responsibility to have the following book(s) on the first night of class:*

NCCER Sheet Metal Level 1 Trainee Guide, 3rd Edition	978-0-13-604482-6
NCCER Core Curriculum Trainee Guide, 5th Edition	978-0-13-413098-9

## SHEET METAL LEVEL 2

Minimum: 200 hours per year

### SHEET METAL 201: FALL QUARTER

Students will learn intermediate sheet metal trade mathematics, learn to read plans and specifications and learn layout and fabrication using radial line development. *Schedule for lab dates will be handed out the first night of class each quarter.*

### SHEET METAL 202: WINTER QUARTER

Students will continue with radial line development then learn about sheet metal duct fabrication, air properties and distribution; and proper bend allowances and will review green building practices.

### SHEET METAL 203: SPRING QUARTER

Students will learn a wide range of soldering tasks and techniques, basic piping practices and layout and fabrication of fiberglass duct.

#### REQUIRED BOOKS - SHEET METAL LEVEL 2

*It is the student's responsibility to have the following book(s) on the first night of class:*

NCCER Sheet Metal Level 2 Trainee Guide, 3rd Edition	978-0-13-604484-0
NCCER Your Role in the Green Environment Trainee Guide, 3rd Ed	978-0-13-294863-0

## SHEET METAL LEVEL 3

Minimum: 200 hours per year

### SHEET METAL 301: FALL QUARTER

Students will learn advanced sheet metal trade mathematics for field measuring and fitting; air systems; and principles of airflow. *Schedule for lab dates will be handed out the first night of class each quarter.*

### SHEET METAL 302: WINTER QUARTER

Students will learn about louvers, dampers and access doors; will do a comprehensive review of blueprint reading and specifications.

### SHEET METAL 303: SPRING QUARTER

Students will learn about fabrication techniques using triangulation; advanced architectural sheet metal.

#### REQUIRED BOOKS - SHEET METAL LEVEL 3

*It is the student's responsibility to have the following book(s) on the first night of class:*

NCCER Sheet Metal Level 3 Trainee Guide, 3rd Edition	978-0-13-609962-8
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## SHEET METAL LEVEL 4

Minimum: 200 hours per year

### SHEET METAL 401: FALL QUARTER

Students will learn about shop production and organization; air testing and air balancing. *Schedule for lab dates will be handed out the first night of class each quarter.*

### SHEET METAL 402: WINTER QUARTER

Students will learn about welding, brazing and cutting, fume and exhaust system design.

### SHEET METAL 403: SPRING QUARTER

Students will complete a comprehensive review of fabrication and will participate in crew leader training.

#### REQUIRED BOOKS - SHEET METAL LEVEL 4

*It is the student's responsibility to have the following book(s) on the first night of class:*

NCCER Sheet Metal Level 4 Trainee Guide, 3rd Edition	978-0-13-609964-2
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## APPRENTICESHIP MONTHLY WORK LOGS



Apprenticeship monthly work logs can be submitted to the apprenticeship department via email: [worklogs@citcwa.org](mailto:worklogs@citcwa.org); fax: (425) 289-0085; mail to the CITC main office: 1930 116th Ave NE Bellevue, WA 98004; or in person to the CITC front office.

# Sheet Metal Schedule & Tuition

## Eastern Washington Region

SHEET METAL LEVEL 1							
Pasco	101	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 13 & 14; Oct 11 & 12; Nov 8 & 9; Dec 13 & 14 + Assignments	Tuition: \$1,125
Pasco	102	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 10 & 11; Feb 14 & 15; Mar 13 & 14 + Assignments	Tuition: \$1,125
Pasco	103	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 17 & 18; May 8 & 9; Jun 12 & 13 + Assignments	Tuition: \$1,125
SHEET METAL LEVEL 2							
Pasco	201	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 6 & 7; Oct 4 & 5; Nov 1 & 2; Dec 6 & 7 + Assignments	Tuition: \$1,125
Pasco	202	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 17 & 18; Feb 7 & 8; Mar 6 & 7 + Assignments	Tuition: \$1,125
Pasco	203	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 3 & 4; May 1 & 2; Jun 5 & 6 + Assignments	Tuition: \$1,125

## Western Washington Region

SHEET METAL LEVEL 1							
Marysville	101	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 13 & 14; Oct 11 & 12; Nov 8 & 9; Dec 13 & 14 + Assignments	Tuition: \$1,500
Marysville	102	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 10 & 11; Feb 7 & 8; Mar 13 & 14 + Assignments	Tuition: \$1,500
Marysville	103	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 10 & 11; May 8 & 9; Jun 12 & 13 + Assignments	Tuition: \$1,500
SHEET METAL LEVEL 2							
Marysville	201	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 20 & 21; Oct 18 & 19; Nov 15 & 16; Dec 20 & 21 + Assignments	Tuition: \$1,500
Marysville	202	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 17 & 18; Feb 14 & 15; Mar 20 & 21 + Assignments	Tuition: \$1,500
Marysville	203	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 17 & 18; May 15 & 16; Jun 19 & 20 + Assignments	Tuition: \$1,500
SHEET METAL LEVEL 3							
Marysville	301	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 27 & 28; Oct 25 & 26; Nov 22 & 23; Dec 20 & 21 + Assignments	Tuition: \$1,500
Marysville	302	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 24 & 25; Feb 28 & 29; Mar 27 & 28 + Assignments	Tuition: \$1,500
Marysville	303	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 24 & 25; May 29 & 30; Jun 26 & 27 + Assignments	Tuition: \$1,500
SHEET METAL LEVEL 4							
Marysville	401	Fall	4 wk/80 hr	Fri/Sat	8a-5p	Sep 6 & 7; Oct 4 & 5; Nov 1 & 2; Dec 6 & 7 + Assignments	Tuition: \$1,500
Marysville	402	Wtr	3 wk/60 hr	Fri/Sat	8a-5p	Jan 3 & 4; Feb 7 & 8; Mar 6 & 7 + Assignments	Tuition: \$1,500
Marysville	403	Spr	3 wk/60 hr	Fri/Sat	8a-5p	Apr 3 & 4; May 1 & 2; Jun 5 & 6 + Assignments	Tuition: \$1,500

## SHEET METAL INSTRUCTORS

As a part of our dedication and commitment to training, we take pride in delivering top quality instructors. CITC's instructors are highly skilled journey-level workers who bring their knowledge and years of trade experience into the classroom. All CITC instructors have been certified by the National Center for Construction Education and Research.

**Brent Brown** started in the trade in 2003. Graduated from CITC in 2008. CITC faculty member since 2008.

**Ben Hanson** started in the trade in 1996. CITC graduate in 2004. CITC faculty member since 2015.

**Anthony Parker** started in the trade in 2007. Graduated from CITC in 2012. CITC faculty member since 2018.

**David Price** started in the trade 1977. Awarded 2008/2009 CITC Craft Training Instructor of the Year in 2008. NCCER Subject Matter Expert. CITC faculty member since 1989.

**Derrick Yancey** started in the trade in 1996. CITC faculty member since 2006.

