



## ENTRY LEVEL TRADES TRAINING

# SHEET METAL WORKER



A sheet metal worker fabricates, assembles, alters and installs a variety of sheet metal products. Typical jobs performed by a sheet metal worker include:

- air conditioning system ductwork;
- hospital and kitchen equipment (stainless steel);
- industrial exhaust systems;
- industrial sheet metal work;
- skylight work (copper);
- roofing and flashing (copper, aluminum, stainless steel).

- Program Length: 6 months\*

- Normal Course Hours: 0730-1430

- Regular intake on the first Monday of every month when space is available.

\*PLEASE NOTE: Program length may vary up to 20% plus or minus for students who are faster or slower than average. There will be additional costs for students who exceed the projected length of the program. Students will not be allowed to proceed at a rate that would extend the length of the program by more than 20%.

### Employment Opportunities

There has been some improvement in opportunities in this trade in the area of ventilation and air conditioning. However, apprenticeship opportunities are not strong at this point, and graduates should be prepared to take any entry level jobs available in the industry.

### Course Content

Use safe work practices  
Solve mathematical problems  
Apply science concepts  
Sketch and read drawings  
Process technical information  
Use basic measurement and layout tools  
Use power tools and shop equipment  
Lift and support loads  
Oxyacetylene cut and weld  
Arc welding  
Use fasteners and fittings  
Use materials  
Make seams and edges  
Apply riveting techniques  
Use sheet metal hand operated machines

Develop patterns using parallel line development  
Develop patterns using radial line development  
Develop patterns using triangulation development  
Construct a blow-pipe project  
Construct a stainless steel project  
Construct a ventilation project  
Prepare for employment

### Course Costs\*

Program Fees	\$490.00
Student Association Fees	\$ 42.00
Additional Cost (Books and Supplies)	\$125.00

\*Applicants may also wish to see their local Canada Employment Centre regarding sponsorship.

NOTE: The above charges are due on the first day of class. Tuition fees and costs are subject to revision by BCIT's Board of Governors.

### Prerequisites

- Must be able to work at heights. Good physical condition is desirable. Potential students with any medical or physical difficulties should contact Student Services to arrange an interview (telephone interview if out of town) with the Institute's Special Needs Counsellor, (604) 432-8433.
- Anyone over 16 who meets the following requirements may apply.

### EITHER:

- Submit documentation that you have one of the following:
  - Successful completion of Career Preparation from a B.C. secondary school within the past three years;
  - Successful completion of a portion of TRAC training from another B.C. post-secondary institution within the past three years;
  - Journeyman standing in a related trade;
  - Completion of one English and one Math course within the past three years with the stipulated mark as listed over.

**MATH**

Math 10 with a B letter grade  
 Trades Math 11 with a B  
 Consumer Math 11 with a B  
 Algebra 11 with a C  
 Algebra 12 with a P

**ENGLISH**

English 10 with a B letter grade  
 English 11 with a C  
 Composition 11 with a C  
 Communications 11 with a C  
 English 12 with a P  
 Communications 12 with a C  
 Literature 12 with a P

OR:

2. Pass an entrance test measuring math and reading skills.

**NOTE:** Those with only minor deficiencies will be admitted but will be required to complete remedial upgrading at BCIT as part of the program. Those who have major deficiencies will be referred to other institutions for upgrading and, after

successfully rewriting the entrance tests, may apply to Student Admissions to resume their original place on the Institute's waiting list.

**Accommodation**

For assistance in finding suitable accommodation, contact the BCIT housing office at (604) 432-8677.

**Financial Aid**

There is an improved financial aid program for trades training. Attend a one hour information session at BCIT held every Friday at 1:30 p.m. Make an appointment for the financial aid information session by phoning Student Services, (604) 432-8433.

Applicants may also wish to see their local Canada Employment Centre regarding sponsorship.

## OTHER TRADES TRAINING PROGRAMS

**Aviation**

Aircraft Maintenance  
 Aircraft Structures

**Electrical/Electronics**

Appliance Repair  
 Diesel Electric Power Mechanic  
 Electrician  
 Electronics

**Mechanical**

Automotive Mechanic  
 Compressed Natural Gas/Liquid Petroleum Gas Installer  
 Computer Numerical Control (CNC)  
 Machine Operator  
 Diesel Engine Mechanic  
 Heavy Duty Mechanic  
 Inboard/Outboard Mechanic  
 Machinist  
 Millwright  
 Motorcycle Mechanic  
 Small Engine Mechanic

**Metal Working**

Boilermaker  
 Ironworker  
 Sheet Metal Worker  
 Steel Fabricator  
 Welder

**Construction**

Bricklayer  
 Carpenter  
 Benchwork and Joiner  
 Drafting  
 Architectural/Civil  
 Architectural/Mechanical  
 Architectural/Structural  
 Architectural Design/Technical and Graphical  
 Communication  
 Plumber  
 Steamfitter  
 Upholsterer  
 Auto Trimmer  
 Custom Furniture

**Horticulture**

Forestry Crewperson  
 Landscape Maintenance and Nursery Worker  
 Tree Trimmer

**Food and Hospitality**

Commercial Baker  
 Professional Cook  
 Professional Restaurant Service  
 Retail Meat Processor  
 Retail Meat Wrapper  
 Sausage Making and Smoked Meats

### How do I get more information about ENTRY LEVEL TRADES TRAINING?

Please call Student Services at (604) 432-8433. Students outside the Lower Mainland may use the HOT LINE, 1-800-242-0676. Student Services include Program Advising, Counselling, and Financial Aid and Awards. Building 1A, Second Floor.

**BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY**

3700 Willingdon Avenue, Burnaby, B.C. V5G 3H2 (604) 432-8433