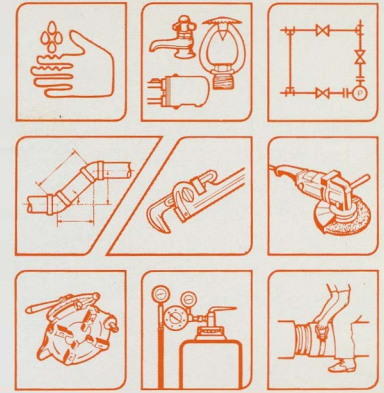


# STEEL FABRICATOR

**ENTRY  
LEVEL  
TRADES  
TRAINING**



A steel fabricator deals with the selection, layout, shearing, cutting (with a torch), punching, drilling, forming, fitting and welding of steel plates and structural steel shapes into products for the forest, mining, construction, transportation and agricultural industries. Typical projects that would involve a steel fabricator include: bridges, buildings, hoppers, conveyors, towers, cranes, heavy mining equipment, logging equipment, ship parts and equipment.

- Program Length: 6 months\*
- Normal Course Hours: 0700-1345
- 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

With the continuing weakness of the construction industry, there are more opportunities in the industrial sector of this trade at present (usually in town). Graduates should be prepared to start as labourers or trainees if apprenticeships are not available. Those who gain enough experience on the job may be eligible to write the Trades Qualification (T.Q.) examination.

### Course Content

- Describe safe work practices
- Solve mathematical problems
- Sketch and read drawings
- Describe business and industrial organizations and prepare for employment
- Erect ladders and scaffolds
- Describe the properties of metals
- Use common steel fabrication fasteners
- Lift loads
- Use steel fabrication hand tools
- Use steel fabrication portable power tools
- Clean and prepare metal surfaces
- Read and interpret steel fabrication drawings
- Describe patterns for shop fabrication
- Make templates for shop construction
- Cut and weld with oxyfuel equipment

- Use arc welding equipment
- Use steel fabrication shop equipment
- Fabricate projects

### Course Costs\*

Program Fees	\$535.00
Student Association Fees	\$ 42.00
Additional Cost (Books and Supplies)	\$112.00

\*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

- Good hand/eye coordination and good physical condition are 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 below.

### 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