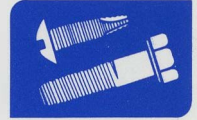
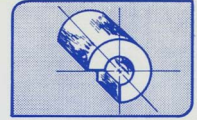




**ENTRY
LEVEL
TRADES
TRAINING**

MACHINIST



A machinist makes or repairs metal parts, tools or machines, including custom work such as line boring pump castings or operating semi-automatic equipment on long production runs. General machinists use lathes, drill presses and milling machines to shape metal. Higher level work includes programming and operating computer controlled machine tools.

- Program Length: 8 months*
- Normal Course Hours: 0700-1400 (first shift) **or** 1300-1945 (second shift)
- 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

Some opportunities exist in the Lower Mainland and on Vancouver Island in machine shops. Formal apprenticeships are common in this trade, but a graduate should be prepared, if necessary, to take an entry level job in a shop until an apprenticeship becomes available.

Course Content

- Apply safe working practices
- Solve mathematical problems and use machinery's handbook
- Read and interpret shop drawings
- Use layout, measuring and testing tools and equipment
- Use support machines
- Identify common metals
- Use lathes
- Use shapers, planers and slotters
- Use vertical and horizontal milling machines
- Apply heat treatment
- Use precision grinders
- Oxyacetylene cut and weld
- Fit bearings, seals, gaskets and packing
- Select lubricants for specific applications
- Describe the fundamentals of NC and CNC
- Complete machine shop projects
- Prepare for employment

Course Costs*

Program Fees	\$670.00
Student Association Fees	\$ 56.00
Additional Cost (Books and Supplies)	\$203.00

*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

- a. 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.
- b. Anyone over 16 who meets the following requirements may apply.

EITHER:

1. 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