

CERTIFICATE

- Red Seal Certification
- One year
- September start
- Burin Campus

COURSES

CODE	TITLE	Hrs
Block 1 Entry Level		
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
SL1100	Safety	7
SL1110	Tools and Equipment	45
SL1120	Material Handling and Rigging	20
SL1130	Fabrication	45
SL1140	Metallurgy	20
SL1150	Basic Drawing and Layout	30
SL1160	Blueprint Reading I (Basic)	15
SL1170	Blueprint Reading II (Advanced)	90
SL1240	Layout and Fabrication Parallel Lines I	45
SL1250	Layout and Fabrication Radial Lines I	45
SL1260	Layout and Fabrication Triangulation I	45
SL1350	Oxy-Acetylene Welding and Cutting	30
SL1360	Shielded Metal Arc Welding (SMAW)	90
SL1610	Layout and Fabrication Parallel Lines II	60
SL1620	Layout and Fabrication Radial Lines II	60
SL1630	Layout and Fabrication Triangulation II	60
SL1740	Air Quality Management	60
OT1190	Workplace Exposure	60
MA1060	Basic Math	60
CM2150	Workplace Communications	45
MR1220	Customer Service	30
SP2330	Quality Assurance/Quality Control	30
MC1050	Introduction to Computers	30
SD1700	Workplace Skills	30
SD1710	Job Search Techniques	20
SD1720	Entrepreneurial Awareness	15
Block 2 Advanced Level		
SL1370	Gas Metal Arc Welding (GMAW)	30
SL1700	Layout and Fabrication Parallel Lines III	90
SL1710	Layout and Fabrication Radial Lines III	90
SL1770	Soldering	30
Block 3 Advanced Level		
SL1540	Installation	60
SL1550	HVAC Systems	90
SL1750	Gas Tungsten Arc Welding (GTAW)	90
Block 4 Advanced Level		
SL1530	Cost Estimation	45
SL1720	Advanced Layout and Fabrication	90
SL1730	Automatic Controls, Instruments and Testing	45
SL1760	Fabricates and Installs Architectural Sheet Metal Products	60

INDUSTRIAL TRADES

Sheet Metal Worker

Sheet Metal Workers fabricate, assemble, install and repair sheet metal products. You will use many types of metal including black and galvanized steel, copper, brass, nickel, stainless steel, aluminum and tin plate to make products such as: pollution control systems, dust collection and control systems, air-slides, material blowers, heating, ventilating and air conditioning systems, solar heating and cooling systems, metal showcases, metal cabinets, flashing, coping, troughing and roof drainage systems. Some of the duties include: lay out, measure and mark dimensions and reference lines on sheet metal according to drawings or templates, use laser or plasma cutting equipment, numerically-controlled or computerized equipment, hand and power shears and snips, and light metal-working equipment to cut, drill, punch, bend and shape sheet metal, fasten components together with bolts, screws, cement, rivets, adhesives, or solder, or by welding, install and repair sheet metal products and ensure installations conform to specifications and building codes. You will work both indoors and outdoors in all types of weather. You should have good eye-hand co-ordination, good eye sight and manual dexterity, be able to visualize a finished product from a drawing, be able to stand for long periods of time, do some heaving lifting and carrying, and work in high, awkward and noisy places.

OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Use and maintain tools, machines and equipment.
3. Use scaffolds, hoists, slings and ladders.
4. Determine project requirements.
5. Develop patterns using various methods.
6. Fabricate parts using hand tools, power tools, and power operated equipment.

ENTRANCE REQUIREMENTS

Eligibility for admission requires the applicant to meet one of the following academic criteria:

1. High School

High School Graduation

2. Comprehensive Arts and Science (CAS) Transition

Comprehensive Arts and Science (Transition) Certificate

3. Adult Basic Education

Adult Basic Education (Level III) Graduation with General College Profile (or Business Related College Profile or Degree and Technical Profile). It is strongly recommended that courses include the following:

- i. Mathematics MA3107A, MA3107B, MA3107C
- ii. Science 3101, 3102, 3103

4. Mature Student Status

Applicants who do not meet the educational prerequisites, are 19 years of age or older and have been out of school for at least one year, may be considered on an individual basis under the Mature Student Clause.

EMPLOYMENT OPPORTUNITIES

You may find employment with the following types of companies:

- Plumbing, Heating and Air Conditioning Companies
- Steel Producers
- Metal Producers
- Exterior Construction firms

