

CERTIFICATE

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

COURSES

CODE	TITLE	Hrs
Block 1 Entry Level		
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
PF1340	Tools and Equipment	75
PF1350	Blueprint I (Basic Residential)	30
PF1360	Blueprint II (Advanced Residential/ Light Commercial)	30
PF1370	Rigging	39
PF1380	Introduction to Fuel Brazing and Cutting	45
PF1390	Pipe and Tubing Fundamentals	15
PF1400	Steel Piping	90
PF1410	Copper Piping	45
PF1421	Plastic Piping	43
PF1430	Brass Piping	15
PF1440	Piping Valves	30
PF1450	Hydronic Heating I	60
PF1541	Low Pressure Steam	96
PF1550	Pipe Template Development	75
PF1560	Pipe Layout and Fitting Fabrication	72
PF1571	Introduction to Electric Welding and Cutting	60
PF2110	Aluminum Piping	9
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	15
SD1720	Entrepreneurial Awareness	15
Block 2 Advanced Level		
PF2100	Blueprint III (Heavy Commercial / Industrial)	30
PF2121	Hydronic Heating II	54
PF2130	Introduction to Electricity	15
PF2150	Introduction to Gas Piping I (Low Pressure)	30
PF2161	Standpipe Systems	6
PF2170	Medical Gas Systems	21
PF2350	Renewable Energy Systems	21
PF2701	Instrumentation	30
PF2711	Pipe and Tube Bending	21
PF2720	Specialty Steamfitting / Pipefitting Systems	12
Block 3 Advanced Level		
PF2730	Pumps / Compressors and Hydraulic Systems	135
PF2740	Valves	30
PF2750	High Pressure Steam	75
PF2900	Pumps	45
PF2930	Compressed Air Systems	45
PF2960	Hydraulic Systems	45
Block 4 Advanced Level		
PF2310	Cross Connection Control Devices	45
PF2320	Introduction to Gas Piping II (High Pressure)	30
PF2760	Refrigeration	30
PF2770	Stainless Steel and Specialty Piping	27
PF2780	Blueprint IV	39
PF2790	Advanced Rigging	39
PF2800	Controlled Bolting, Testing and Commissioning	30

INDUSTRIAL TRADES

Steamfitter/Pipefitter

This program is designed to prepare you to lay out, assemble, fabricate, maintain and repair piping systems carrying water, steam, chemicals or fuel used in heating, cooling, lubricating and other processes. Some of the duties include: determine the type of pipe and tools to use and lay out the sequence of tasks, make detailed sketches for pipe and equipment fabrication and installation, if required, measure, cut, thread, groove, bend, assemble and install metal, plastic and fiberglass pipes, valves and fittings, join sections and related equipment, and secure in position, use testing equipment to check systems for leaks, remove and replace worn components, do general maintenance work and work on plant shut-downs. You will probably work a forty hour, five day week. However, overtime may be required to meet construction deadlines. The work environment is both indoors and outdoors with physically demanding tasks that often require climbing. You should have good physical strength and stamina, good manual dexterity, have the ability to read and understand complex instructions and your work has to be exact.

OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Use and maintain tools and equipment.
3. Perform common installation processes.
4. Plan lifts.
5. Hoist loads.
6. Install high and low pressure process steam systems.

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 pipeline construction contractors and sub-contractors, thermal or steam generating plants, manufacturers, utility companies, oil refineries, gas plants, paper mills and chemical plants. As you gain experience you can move to a supervisory position such as a foreman, sub-contractor, contractor and construction superintendent.

