

## CERTIFICATE

- One year
- Start date varies
- Baie Verte, Corner Brook, Happy Valley-Goose Bay, Labrador West, and Placentia Campuses

## COURSES

CODE	TITLE	Hrs
<b>Block 1</b>	<b>Entry Level</b>	
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
MS1230	Hand Tools	20
MW1240	Portable Power Tools	20
MW1250	Blueprint Reading and Sketching	20
MW1260	Equipment Assembly Blueprints	20
MW1270	Mechanical Installation Blueprints	15
MW1280	Schematics Advanced	20
MW1290	Rigging	30
WD1330	Oxy-Fuel Welding	30
MW1450	Drills, Taps and Reamers	30
MW1460	Measuring and Layout	60
MW1470	Piping Components	30
MW1510	Power Metal Saws	20
MW1520	Pedestal Grinders	20
MW1530	Bearings	40
MW1540	Fasteners	9
MW1550	Metallurgy	30
MW1580	Static and Dynamic Seals	30
MW1590	Couplings and Clutches	30
MW1610	Belt and Chain Drive Systems	45
MW1640	Gear Drive Systems	50
MW1650	Lubrication Practices	20
MW1670	Non-positive Displacement Pumps	40
MW1690	Positive Displacement Pumps	50
MW1730	Electrical Fundamentals	30
MW2150	Hydraulics I	30
OT1250	Workplace Exposure	90
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
<b>Block 2</b>	<b>Advanced Level</b>	
WD1380	Electric Arc Welding	60
MW1660	Material Handling Systems	60
MW2160	Hydraulics II	35
MW2170	Pneumatics	40
MW2180	Compressors	40
<b>Block 3</b>	<b>Advanced Level</b>	
MW1560	Coupling Alignment	45
MW1620	Metal Lathes	100
MW1630	Milling Machines	40
MW2190	Machinery Installation and Alignment	60
<b>Block 4</b>	<b>Advanced Level</b>	
MW1680	Dynamic Balancing	45
MW1740	Preventive and Predictive Maintenance	35
MW2210	Prime Movers I	45
MW2220	Prime Movers II	45
MW2230	Vibration Analysis	40
MW2200	Boilers	30

## INDUSTRIAL TRADES

# Industrial Mechanic (Millwright)

This is a nine month certificate level program designed to assist persons in developing sufficient basic skills and knowledge to enter the labour force as an apprenticed industrial mechanic-millwright.

The Provincial Apprenticeship and Certification Board through legislative authority is responsible for the registration of apprentices and trade qualifiers into the designated occupations.

The registration of an apprentice will take place when an individual is employed in a field of work directly relating to a designated occupation, and has a Memorandum of Understanding (MOU) signed between the Division of Institutional and Industrial Education, an employer and the apprentice.

After successful completion of this program, and the required work experience, the apprentices qualify to return to complete advanced level training in preparation for writing the Journeyperson's Examination.

## OBJECTIVES

1. To develop an awareness of and concern for good safety practices in the work place.
2. To develop basic skills and knowledge required for work as an apprenticed industrial mechanic-millwright.
3. To develop and strengthen related knowledge and skill (technical and general) in subjects that complement and support the trade training.

## ENTRANCE REQUIREMENTS

Comprehensive Arts and Science Certificate (College Transition program),

**OR**

High School Graduation,

**OR**

Grade XI Certificate (Public Examinations or equivalent),

**OR**

Adult Basic Education (Level III) Graduation,

**OR**

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:

1. Mathematics MA3107A, MA3107B, MA3107C
2. Science 3101, 3102, 3103

**OR**

Persons 19 years of age or older who do not meet the educational prerequisite for this program may be considered on an individual basis under the Mature Student Clause.

## EMPLOYMENT OPPORTUNITIES

Graduates may obtain employment in a variety of occupational settings including: industrial, mining, pulp and paper, oil refining, private companies, breweries, bakeries, bottling plants, construction, fabrication and with various provincial and federal government agencies or departments.

