

Machinist

The Machinist program is designed to train individuals in the knowledge, skills, and experience necessary to fabricate, assemble and repair machinery.

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 Journeyman's Examination.

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.

CERTIFICATE

- One year
- Start date varies
- Baie Verte and Placentia Campuses

COURSES

CODE	TITLE	Hrs
Block 1 Entry Level		
TS1510	Occupational Health & Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
MW1750	Hand Tools and Basic Layout	90
MW1760	Machine Shop Measuring I (Basic Measurement)	30
MW1770	Mechanical Drawings I (Basic)	30
MW1780	Cutting Fluids and Coolants	30
MW1790	Material Selection	8
MW1800	Machine Shop Measuring II (Gauge Blocks and Angular Measurement)	30
MW1820	Power Tools/Grinding	45
MW1830	Heat Treatment	30
MW1840	Rigging	30
MW1850	Drilling Machines	45
MW1860	Lathes and Lathe Accessories	45
MW1870	Lathe Operations	60
MW1880	Lathe Drilling, Boring, Reaming and Tapping	30
MW1900	Taper Turning	30
MW1910	Basic Threading	45
MW1920	Horizontal/Vertical Milling Machines	60
MW1950	Reciprocating Machines	30
MW1960	Carbide Tooling	15
MW1970	Specialty Machinable Materials	6
MW2060	NC/CNC of Machine Tools	15
MW2070	CNC Programming	45
MW2080	Mechanical Fasteners	15
MW2120	Oxy-Fuel Cutting and Welding	45
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		
MW1810	Mechanical Drawings II (Intermediate)	30
MW1890	Planning and Measuring/Precision Layout	45
MW1930	Horizontal Milling Machine Operation	45
MW1940	Advanced Lathe Operation	105
MW1990	Testing and Inspecting	15
Block 3 Advanced Level		
MW1980	Spur Gears	45
MW2000	Vertical Milling Machine Operation	85
MW2010	Boring Mills	5
MW2020	Abrasives	15
MW2030	Cylindrical Grinders	30
MW2040	Universal Cutter and Tool Grinder	30
MW2100	Surface Grinders	30
Block 4 Advanced Level		
MW2050	Electrical Discharge Machines	5
MW2090	Bevel, Helical and Worm Gears	95
MW2110	Electrical ARC Welding	45
MW2130	Electro-Chemical Machining and Electrolytic Grinding	5
MW2140	Advance CNC Operation (NL Only)	90

