

CERTIFICATE

- Red Seal Certification
- One year
- Start date varies
- Bay St. George, Happy Valley-Goose Bay, and Placentia Campuses

COURSES

CODE	TITLE	Hrs
Block 1	Entry Level	
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
SV1101	Safety	30
SV1110	Ozone Depleting Substances	7
SV1166	Tools and Equipment	30
SV1800	Hoisting and Lifting	15
SV1151	Service Information Systems	25
SV1810	Preventative Maintenance	5
SV1201	Start, Move, and Park Vehicle	5
SV1181	Fasteners, Tubings, Hoses and Fittings	30
SV1190	Lubrication and Fluid Services	30
SV1121	Gaskets and Seals	5
SV1820	Bearings	6
SV1830	Metallurgy	5
SV1301	Cutting, Heating and Welding	30
SV1211	Tires, Rims and Wheels	25
SV1303	Engine Principles	45
SV1310	Cooling Systems	30
SV1131	Electrical and Electronic Principles	55
SV1370	Batteries	15
SV1491	Conventional Lighting Systems	15
SV1501	Wiring Harnesses and Accessories	15
SV1141	Introduction to Hydraulics	30
SV2381	Hydraulic Fittings, Piping, Tubing and Hoses	25
SV2391	Reservoirs, Coolers and Filters	15
WD2330	MIG Welding	30
SV1261	Vehicle Hydraulic Brake Systems	60
SV1271	Basic Air Brake Systems	60
SV1281	Drive Lines	25
SV1365	Non-Diesel Fuel Systems	25
SV1361	Diesel Fuel Supply Systems	25
SV1331	Intake and Exhaust Systems	25
SV1451	Steering Systems	30
SV1401	Gauges	11
AP1100	Introduction to Apprenticeship	15
CM2150	Workplace Communications	45
MC1050	Introduction to Computers	30
MR1220	Customer Service	30
SD1700	Workplace Skills	30
SD1710	Job Search Techniques	15
SD1720	Entrepreneurial Awareness	15
SP2330	Quality Assurance/Quality Control	30
MA1060	Basic Math	60

Block 2	Advanced Level	Hrs
SV1291	Drive Axle Assemblies	45
SV1380	Starting Systems	30
SV1386	Starting Aids	15
SV1391	Charging Systems	30
SV1840	Heating and Ventilation Systems	15
SV2310	Electric Brakes	15
SV2400	Hydraulic Pumps and Motors	30
SV2661	Electronic Ignition Systems	30
SV2670	Air Conditioning Systems	30

Block 3	Advanced Level	Hrs
SV1251	Front and Rear Suspensions	40
SV2301	Track-Type Undercarriage	40
SV2291	Tracked Steering Systems	30
SV2371	Final Drives	15
SV2411	Control Valves	10
SV2420	Hydraulic Cylinders	15
SV2431	Accumulators	10
SV2451	Hydrostatic Drives	25
SV2461	Hydraulic Systems Diagnostics and Testing	15
SV2510	Blade Buckets and Cutting Edges	15
SV1245	Wheel and Axle Alignment	25

Block 4	Advanced Level	Hrs
SV2265	Vehicle Management Systems	60
SV2350	Torque Converters	30

INDUSTRIAL TRADES

Heavy Duty Equipment Technician

This program is designed to provide you with the skills and knowledge required for employment in the field of Heavy Duty Equipment Technician. The work environment varies considerably from one job to another. It could be a heated garage or outdoors in all types of weather conditions. The duties of a technician do vary however, some of the more general duties are: interpret work orders and technical manuals, keep equipment clean, lubricated and maintained; diagnose faults or malfunctions; adjust equipment and repair or replace defective parts, components or systems; test repaired equipment for proper performance and ensure that the work done meets manufacturers specifications and legislated regulations. Good eyesight, hearing and sense of smell to diagnose problems are assets for this program. You should have the ability to think logically and keep up to date with changes in technology.

OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Use hand tools and equipment.
3. Analyze and process information.
4. Diagnose and repair engines and engine support systems.
5. Diagnose and repair steering, suspension and brake systems.
6. Diagnose and repair hydraulic and pneumatic 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 in specialized repair shops, large fleet maintenance companies, transportation companies and construction companies.

