

Truck and Transport Mechanic

This training program is designed to provide trainees with skills and knowledge required for employment in the field of Heavy Equipment Repair. Truck and Transport Technicians diagnose problems, locate the cause of the malfunction, dismantle and overhaul components. They repair defects, reassemble existing parts or fit new parts, and make final adjustments.

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 the entry-level 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 familiarize students with the principles of operation, construction, care and maintenance of various types of hand tools and power tools.
2. To acquaint students with the various routines and practices pertaining to the maintenance and repair of diesel powered trucks and trailer units.
3. To develop skills and to impart knowledge relative to this particular trade.

ENTRANCE REQUIREMENTS

1. 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.

2. Students selecting Tandem Truck (Class 3) require a valid Newfoundland driver's license (Class 6) and medical.

Highway Traffic Driver Regulations, 1999 under the Highway Traffic Act (O.C. 98-729):

- The Registrar shall not issue to a person a Class 1, 2, 3 or 4 driver's license unless that person has first been issued a Class 5 driver's license and has had not less than one year of driving experience as a holder of a Class 5 license.
- A person who would like to hold a Class 1, 2, 3 or 4 driver's license must undergo a medical examination and obtain a certificate from a qualified medical practitioner for the required class.

EQUIPMENT REQUIRED FOR TRAINING

Tool kit, safety boots, clear safety glasses, two pairs of coveralls, welding gloves, welding goggles.

CERTIFICATE

- 43 weeks
- Start date varies
- Bay St. George Campus

COURSES

CODE	TITLE	Hrs
Block 1	Entry Level	
AP1100	Introduction to Apprenticeship	15
SV1101	Safety	30
SV1110	Ozone Depleting Substances	7
SV1121	Gaskets and Seals	5
SV1131	Electrical and Electronic Principles	55
SV1141	Introduction to Hydraulics	30
SV1151	Service Information Systems	25
SV1166	Tools and Equipment	30
SV1181	Fasteners, Tubing, Hoses and Fittings	30
SV1190	Lubrication and Fluid Services	30
SV1201	Start, Move and Park Vehicle	5
SV1211	Tires, Rims and Wheels	25
SV1261	Vehicle Hydraulic Brake Systems	60
SV1271	Basic Air Brake Systems	60
SV1281	Drive Lines	25
SV1301	Cutting, Heating and Welding	30
SV1303	Engine Principles	45
SV1310	Cooling Systems	30
SV1331	Intake and Exhaust Systems	25
SV1361	Diesel Fuel Supply Systems	25
SV1365	Non-Diesel Fuel Systems	25
SV1370	Batteries	15
SV1401	Gauges	11
SV1451	Steering Systems	30
SV1491	Conventional Lighting Systems	15
SV1501	Wiring Harness and Accessories	15
SV1800	Hoisting and Lifting	15
SV1810	Preventative Maintenance	5
SV1820	Bearings	6
SV1830	Metallurgy	5
SV2381	Hydraulic Fittings, Piping, Tubing and Hoses	25
SV2391	Reservoirs, Coolers and Filters	15
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
WD2330	MIG Welding	30
Related Courses		Hrs
CM2150	Workplace Communications	45
MA1060	Basic Math	60
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
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
SV1441	Front Axles and Suspension Systems	45
SV1461	Rear Axles and Suspension Systems	60
SV1480	Dual Air Brake Systems	45
SV2691	Frames and Chassis	25
SV1245	Wheel and Axle Alignment	25
SV2781	Trailer Coupling Devices	20
SV2728	Trailers	20
Block 4	Advanced Level	Hrs
SV2265	Vehicle Management Systems	60
SV2350	Torque Converters	30
SV2365	Automatic/Power Shift	35
SV2571	Engine Brakes and Retarders	20
SV2651	Electronically Controlled Fuel Injection Systems	45

SV2771	Emission Control Systems	20
WD2320	SMAW Welding	30

Block 5	Advanced Level	Hrs
SV1321	Engine Lubrication Systems	15
SV2266	Diesel Fuel Injection Systems	45
SV2560	Preventative Maintenance Inspections	15
SV2591	Turbo Chargers, Blowers and Intercoolers	25
SV2605	Diesel Engine Overall	120
SV2611	Base Engine Diagnostics	20

Block 6	Advanced Level	Hrs
SV2721	Manual Transmissions	65
SV2725	Power Take-Offs	30
SV2726	Anti-Lock Braking and Traction Control Systems	50
SV2727	Cab Components	20
SV2729	Engine Clutches	15
SV2741	Transfer Cases	30
SV2761	Gasoline Fuel Injection Systems	30

