

Truck and Transport Mechanic

This program is designed to provide you with the skills and knowledge required for employment in the field of Truck and Transport Mechanic. Some of your duties include: interpret work orders and technical manuals, keep equipment cleaned, 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. Your work environment will vary considerably from one job to another. You may be in a heated shop or on site working in all kinds of weather. Good vision, hearing and sense of smell to diagnose problems, strength and stamina to work in cramped or awkward positions, ability to work as part of a team and ability to think logically and keep up to date with changes in technology are assets for this trade.

OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Maintain tools and equipment.
3. Diagnose and service engine and support systems.
4. Diagnose and service air systems and brakes.
5. Diagnose and service electrical 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 will find employment with small repair shops, large fleet maintenance companies, transportation companies and construction companies.

CERTIFICATE

- Red Seal Certification
- One year
- 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
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		
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		
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		
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		
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		
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