

# Automotive Service Technician

This program is designed to provide the skills and knowledge required for employment in the Automotive Service Technician field. Automotive Service Technicians diagnose problems and make repairs.

You may obtain employment in all phases of the Automotive Service Technician trade, especially with garages and service stations. Additional training may lead to self employment or employment as a foreperson, supervisor or inspector, as well as work in the automotive sales and service area.

**Note:** This program may not be suitable for applicants who do not have normal color perception.

## OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Diagnose and repair engine systems.
3. Diagnose and repair engine support systems.
4. Diagnose and repair vehicle management systems.
5. Diagnose and repair drive line systems.
6. Diagnose and repair electrical systems and components

## 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

The graduate may obtain employment in all phases of the Automotive Service Technician trade, especially with garages and service stations. Additional training may lead to self employment or employment as a foreperson, supervisor or inspector, as well as work in the automotive sales and service area.

## CERTIFICATE

- Red Seal Certification
- 37 weeks
- Start date varies
- Bay St. George, Gander, Happy Valley-Goose Bay, and Prince Philip Drive 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
SV1100	Safety in the Shop	15
SV1125	Gaskets, Seals and Bearings	30
SV1130	Electrical and Electronic Principles	90
SV1142	Hydraulic Principles	25
SV1156	Service Information Systems	20
SV1165	Hand Tools	30
SV1176	Shop Tools & Equipment	20
SV1186	Fasteners, Tubing & Fittings	15
SV1196	Lubrication and Fluids Servicing	25
SV1216	Wheels and Tires	25
SV1255	Suspension	45
SV1286	Drive Lines	25
WD1301	Oxy-Fuel Welding/Cutting	30
SV1305	Engine Principles	60
SV1315	Cooling Systems	30
SV1376	Batteries	20
SV1385	Starting Systems	30
SV1395	Charging Systems	30
SV1495	Lighting Systems	30
SV1550	Body Components and Trim	15
SV1600	Ignition Systems	30
SV1625	Front Wheel Drive	25
SV1631	Hydraulic Brake Systems	75
SV1640	Power Brake Systems	15
SV1661	Intake & Air Filtration System	15
SV1671	Exhaust Systems	15
SV2261	Preventive Maintenance Inspections (PMI)	10
SV2281	Pre-Delivery Inspection (PDI)	10
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
AP1100	Introduction to Apprenticeship	15
<b>Block 2</b>	<b>Advanced Level</b>	<b>Hrs</b>
SV1651	Fuel Delivery	15
SV2016	On-Board Computer Diagnostics I (OBD-I)	60
SV2017	On-Board Computer Diagnostics II (OBD-II)	30
SV2220	Emission Control	45
SV2235	Fuel Injection Systems	45
SV2250	Alternative and Variable Fuels	15
WD2331	GMAW Welding (MIG)	30
<b>Block 3</b>	<b>Advanced Level</b>	<b>Hrs</b>
SV1226	Manual Steering	10
SV1610	Steering Columns	15
SV2021	Power Steering	25
SV2030	Electronic Power Steering	15
SV2041	Wheel Alignment	40
SV2121	Anti-Locking Brake System and Traction Control	40
SV2155	Power-Actuated Accessories	60
SV2161	Air Bag Systems	25
<b>Block 4</b>	<b>Advanced Level</b>	<b>Hrs</b>
SV2051	Engine Clutches	25
SV2061	Manual Transmissions and Transaxles	40
SV2075	Automatic Transmissions and Transaxles	90
SV2091	Electronic Transmission Controls	25
SV2101	Transfer Cases and Hub Assemblies	25
SV2111	Differential and Axle Assemblies	25
SV2271	Provincial Government Inspection (MVI)	10
<b>Block 5</b>	<b>Advanced Level</b>	<b>Hrs</b>
SV1110	Ozone Depletion Substance	7
SV2144	Automotive Heating Systems	10
SV2145	Air Conditioning Systems	30
SV2171	Engine Diagnostics (Gasoline)	45
SV2181	Engine Removal and Installation	20
SV2820	Diesel Engine Principles	30
SV2830	Diesel Engine Diagnostics	30
SV2840	Diesel Engine Repair	8
SV2900	Engine Rebuilding (Gasoline)	60

