

## CERTIFICATE

- 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
SV1140	Hydraulic Principles	25
SV1155	Service Information Systems	20
SV1165	Hand Tools	30
SV1175	Shop Tools & Equipment	20
SV1185	Fasteners, Tubing & Fittings	15
SV1195	Lubrication and Fluids Servicing	25
SV1215	Wheels and Tires	25
SV1255	Suspension	45
SV1285	Drive Lines	25
WD1300	Oxy-Fuel Welding/Cutting	30
SV1305	Engine Principles	60
SV1315	Cooling Systems	30
SV1375	Batteries	20
SV1385	Starting Systems	30
SV1395	Charging Systems	30
SV1495	Lighting Systems	30
SV1600	Ignition Systems	30
SV1625	Front Wheel Drive	25
SV1630	Hydraulic Brake Systems	75
SV1640	Power Brake Systems	15
SV1650	Fuel Delivery	30
SV1660	Intake & Air Filtration System	15
SV1670	Exhaust Systems	15
SV2260	Preventive Maintenance Inspections (PMI)	10
SV2280	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
<b>Block 2</b>	<b>Advanced Level</b>	
SV2015	On-Board Computer Diagnostics I (OBD-I)	75
SV2011	On-Board Computer Diagnostics II (OBD-II)	30
SV2220	Emission Control	45
SV2235	Fuel Injection Systems	45
SV2250	Alternative and Variable Fuels	15
WD2330	GMAW Welding (MIG)	30
<b>Block 3</b>	<b>Advanced Level</b>	
SV1225	Manual Steering	10
SV1610	Steering Columns	15
SV2020	Power Steering	25
SV2030	Electronic Power Steering	15
SV2040	Wheel Alignment	40
SV2120	Anti-Locking Brake System and Traction Control	40
SV2130	Air Brake Systems	10
SV2155	Power-Actuated Accessories	60
SV2160	Air Bag Systems	25
<b>Block 4</b>	<b>Advanced Level</b>	
SV2050	Engine Clutches	25
SV2060	Manual Transmissions and Transaxles	40
SV2075	Automatic Transmissions and Transaxles	90
SV2090	Electronic Transmission Controls	25
SV2100	Transfer Cases and Hub Assemblies	25
SV2110	Differential and Axle Assemblies	25
SV2270	Provincial Government Inspection (MVI)	10
<b>Block 5</b>	<b>Advanced Level</b>	
SV1110	Ozone Depletion Substance	7
SV2144	Automotive Heating Systems	10

## INDUSTRIAL TRADES

# Automotive Service Technician

This program is designed to provide trainees with skills and knowledge required for employment in the Automotive Service Technician field. Automotive Service Technicians diagnose problems and make repairs. They examine automobiles for defects, locate the cause of the malfunction, dismantle and overhaul components, repair defects or fit new parts, and reassemble 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 this program, and the required work experience, the apprentices qualify to return to complete advanced level training in preparation for writing the Journeyperson's Examination

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

### OBJECTIVES

1. To develop good safety habits and the proper use and maintenance of various tools and equipment used in an automotive repair shop.
2. To develop an understanding of and skill in recognizing, servicing, removing, overhauling and installing the various related parts and systems on automobiles.

### 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:

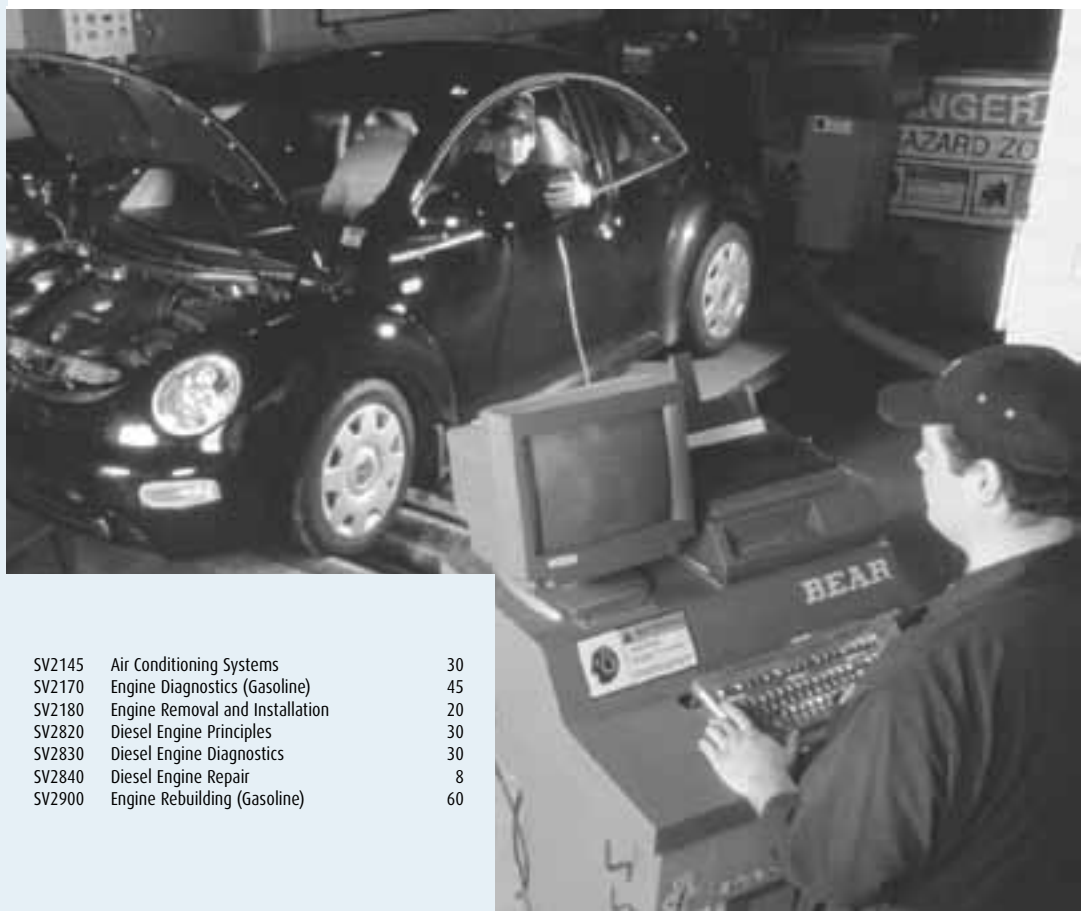
1. Mathematics MA3107A, MA3107B, MA3107C
2. Science 3101, 3102, 3103

**OR**

Persons 19 years of age or older who do not meet the educational prerequisite 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.



SV2145	Air Conditioning Systems	30
SV2170	Engine Diagnostics (Gasoline)	45
SV2180	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