

# Small Equipment Service Technician

The Small Equipment Service Technician program is designed to enable you to learn the knowledge and skills associated with the repair and maintenance of recreational equipment such as snowmobiles, ATVs, motorcycles, personal water craft and outboard motors, and fuel-powered tools such as chainsaws and lawnmowers. Some of the duties you will encounter are: review and interpret work orders and technical manuals, inspect engines, motors and other mechanical components and use test devices to diagnose and isolate faults, adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment, test and adjust repaired equipment for proper performance, perform scheduled maintenance service on equipment, advise customers on work performed and general condition of equipment and you may have to estimate repair cost. Technicians usually work indoors in shops and tend to work in a standing position for long periods of time. Most times you will work a forty hour, five day work week. However, some evening, weekend or holiday work may be required during busy months

## OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Use and maintain tools and equipment.
3. Interpret schematics and wiring diagrams.
4. Identify major engine components.
5. Maintain and repair lubricant systems.
6. Maintain and repair light duty engines.

## OBJECTIVES

1. To provide the appropriate learning opportunities required for employment.
2. To assist students with the development of appropriate attitudes and behaviour that are conducive to working with other persons in this occupation.
3. To develop and strengthen related knowledge and skills in subjects that complement and support the trade.

## 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 a variety of mechanical settings, including the service, sales and/or parts departments of the many recreational vehicle and rental dealerships that exist throughout the province. In addition, opportunities exist with independent garages, service stations, and repair shops, as well as manufacturers. Additional experience and training may lead to positions such as foreperson, supervisor, or inspector. Opportunities for self-employment are quite good in this area.

## CERTIFICATE

- One year
- Start date varies
- Bay St. George Campus

## COURSES

CODE	TITLE	Hrs
<b>Block 1 Entry Level</b>		
TS1510	Occupational Health and Safety	6
TS1520	WHMIS	6
TS1530	Standard First Aid	14
TS1190	Shop Fundamentals	90
TS1220	Precision Measurement	30
WD1250	Oxy-Fuel Cutting and Heating	30
WD1260	Shielded Metal Arc Welding Fundamentals	30
WD1320	Gas Metal Arc Welding	30
MP1440	Electrical and Electronic Basic Principles	90
SR1120	Service Information Systems	30
SR1130	Engine Operations	45
SR1140	Lubrication Systems	45
SR1220	Small Equipment Engines	90
SR1230	Small Equipment Starting and Charging Systems	75
SR1240	Ignition Systems	60
SR1320	Gasoline Engine Air and Fuel Delivery Systems	30
SR1330	Gas Injection Systems	60
SR1340	Carburetted Fuel Systems	60
SR1420	Small Equipment Cooling Systems	45
SR1430	Emission Control Systems	30
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 Advanced Level</b>		
SR2100	Lawn & Garden Equipment Servicing Fundamentals	45
SR2200	Snowmobile Servicing Fundamentals	60
SR2300	Motorcycle & ATV Servicing Fundamentals	60
SR2400	Marine Equipment Servicing Fundamentals	75
<b>Block 3 Advanced Level</b>		
SR1500	Small Equipment Transmissions	120
SR2310	Motorcycle & ATV Troubleshooting & Repair	120
<b>Block 4 Advanced Level</b>		
SR2110	Lawn & Garden Equipment Troubleshooting & Repair	80
SR2210	Snowmobile Troubleshooting & Repair	80
SR2410	Marine Equipment Troubleshooting & Repair	80

