

MECHANICAL TECHNIQUES - SMALL ENGINE APPRENTICESHIP

Program: SEAP

Credential: Ontario College Certificate

Delivery: Full-time

Work Integrated Learning: Apprentice Placement

Length: 480 hours **Effective:** Fall 2025 **Location:** Midland

Description

The Mechanical Techniques - Small Engine Apprenticeship program consists of two levels designed to provide apprentices with the theoretical knowledge and practical training necessary to complement the Small Engine Technician apprentice's on-the-job training.

A Small Engine Technician diagnoses, repairs and maintains, small to medium sized engine and engine-related systems for off-road vehicles and powered equipment. Specifically, a Small Engine Technician repairs and maintains off-road vehicles and powered equipment systems.

Career Opportunities

Other small engine and small equipment repairers test, repair and service small gasoline and diesel-powered engines and equipment, such as garden tractors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments. Jobs may include the following:

- · Air-cooled engine mechanic
- · Gasoline-powered lawn mower repairer
- · Lawn and garden equipment technician
- · Small engine technician
- · Small equipment mechanic apprentice
- · Small equipment repairer
- · Off road powersports equipment apprentice

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

- complete all work in compliance with current legislation, standards, regulations and guidelines;
- contribute to the application of quality control and quality assurance procedures to meet organizational standards and requirements;
- comply with current health and safety legislation, as well as organizational practices and procedures;
- 4. support sustainability best practices in workplaces;
- 5. use current and emerging technologies to support the implementation of mechanical and manufacturing projects;
- troubleshoot and solve standard mechanical problems by applying mathematics and fundamentals of mechanics;
- contribute to the interpretation and preparation of mechanical drawings and other related technical documents;

- perform routine technical measurements accurately using appropriate instruments and equipment;
- assist in manufacturing, assembling, maintaining and repairing mechanical components according to required specifications;
- select, use and maintain machinery, tools and equipment for the installation, manufacturing and repair of basic mechanical components.

External Recognition

Upon successful completion of their Level 2 in-school training, these apprentices must complete the remainder of the required skills outlined in the Training Standard Log Book to qualify for their Apprenticeship Certificate. Thereafter, they are eligible to write their Certificate of Qualifications exam.

Graduates may be able to receive credit toward further education in related post secondary diploma, advanced diploma, or degree programs.

Admission Requirements

- Ontario Secondary School Diploma (OSSD), or equivalent, mature student status
- Apprentices must to be registered with the Ministry of Labour, Training, and Skills Development

Additional Information

An apprenticeship involves practical training provided on-the-job by a skilled worker, or trainer. The skills or competencies to be developed are set out by the trade's apprenticeship training standard and are recognized by the industry as being essential to the practice of the trade.

As these essential skills are developed, the apprentice's sponsor or trainer signs the relevant sections of the training standard to indicate that the apprentice has met the individual training objectives by demonstrating the skills required of a skilled worker, or journeyperson, in the trade.

Graduation Requirements

Students must successfully complete both levels to receive a certificate.

- · Small Engine Mechanic Apprentice Level 1 Basic (SEAB)
- · Small Engine Mechanic Apprentice Level 2 Advanced (SEAA)

Graduation Eligibility

Students must successfully complete all required courses as noted below. Further details, if applicable, are noted under "Additional Information" above.

Program Tracking Level 1- Basic (SEAB)

Program Courses		Hours
SMEN 1005	Engine Systems - Level 1	54
SMEN 1008	Work Practices and Procedures - Level 1	60
SMEN 1009	Electrical /Electronic Systems - Level 1	45
SMEN 1010	Fuel Systems - Level 1	24
SMEN 1011	Braking, Transmission and Auxiliary Drive Systems - Level 1	39



	Total Hours	240
	Hours	240
SMEN 1012	Safe Working Practices and Techniques - Level 1	18

Level 2- Advanced (SEAA)

Program Courses	:	Hours
SMEN 2007	Work Practices and Procedures - Level 2	36
SMEN 2008	Electrical and Electronic Systems - Level 2	45
SMEN 2009	Engine Fuel Management Systems - Level 2	45
SMEN 2010	Engine Systems - Level 2	24
SMEN 2011	Steering, Suspension, and Brake Systems - Level 2	42
SMEN 2012	Transmission and Auxiliary Drive Systems - Level 2	48
	Hours	240
	Total Hours	240

Disclaimer. The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.

Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.