

Powersport Equipment/Small Engine Technician *Certificate – 29 credit hours*

Purpose: The Powersport Equipment/Small Engine Technician Certificate program was developed to train students as professional entry level outdoor power propulsion and small engine technicians through a combination of theory and hands on experience. The program prepares students to maintain and repair a variety of outdoor equipment. Students will be introduced to the skills and knowledge to be capable of diagnosing mechanical failures quickly and accurately on various types of two- and four-cycle small engines that are presently used to power lawn mowers, snow blowers, generators, garden tractors, rototillers, snowmobiles, ATVs, handheld power equipment (chainsaws, trimmers, blowers, etc.) and personal watercrafts. Students who perform satisfactorily may find employment as service technicians, sales personnel, equipment rental staff, and factory representatives or may wish to open their own business.

Program Educational Outcomes: Upon completion of the Certificate in Mechanical Technology in Powersport Equipment/Small Engine Technician the graduate is prepared to:

1. Demonstrate a foundation in theory, technology, equipment, safety and industry standards.
2. Understand and apply basic principles of testing, diagnosis, and servicing of small engines, outdoor power equipment, recreational power equipment and power sport equipment.
3. Understand and apply basic principles regarding repair and maintenance.
4. Identify, diagnose and solve mechanical equipment/engine problems.
5. Apply theoretical knowledge and skills, and complete repair and maintenance tasks in accordance with the Equipment and Engine Training Council (EETC) and the outdoor Power Equipment and Engine Service Association (OPEESA).
6. Apply theoretical knowledge of electronic and other test equipment in practical settings.
7. Demonstrate professionalism.
8. Interpret service information.

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| Course # | Course Title | Credits |
|-------------------|--|----------------|
| Semester 1 | | |
| ENG101 | College Composition | 3 |
| FYE100 | First Year Experience | 1 |
| MET103 | Principals of Vehicular Electronics | 2 |
| MET170 | Small Engine Repair and Tune-up | 3 |
| MET 171 | Power Equipment Drivelines/Hydraulics and Hydrostatics | 3 |
| MET190 | Recreational Vehicles Operation and Maintenance | 3 |
| | Total | 15 |
| Semester 2 | | |
| MAT106 | Mathematics for Technologies | 3 |
| MET172 | Power Equipment Electrical Systems and Generators | 3 |
| MET173 | Marine and Personal Watercraft Repair and Maintenance | 3 |
| MET195 | Outdoor Powered Equipment Vehicle Repair and Maintenance | 3 |
| WEL109 | Introductory Welding | 2 |
| | Total | 14 |