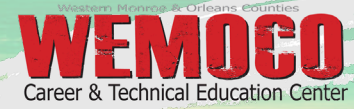
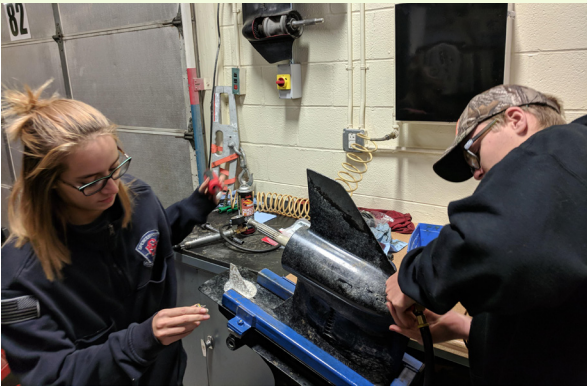


Outdoor Powersports Technology



Powersports are everywhere - become an expert!



Learn how to diagnose/troubleshoot, repair and maintain two- and four-stroke recreational and utility machines. Gain real world experience driven by seasonal demands.

Units of Study

- Hand, Power, and Stationary Tools and Equipment
- Pre and Post-Season Maintenance and Storage
- Precision measuring instruments
- Principles of Operation, Maintenance, and Repair: 4-Stroke Cycle Engines
- Principles of Operation, Maintenance, and Repair: 2-Stroke Cycle Engines
- Fuel Systems (Carburetors, fuel injection, direct injection)
- Electrical and Ignition Systems
- Exhaust Systems
- Cooling Systems
- Clutches and Brakes
- Trailer Service
- Service Writing

Integrated Academics

English

Licensing / Industry- Based Certification

Equipment Engine Training Council (EETC) 2-stroke and 4-stroke engine Certification

Work-Based Learning

CTE programs bring students into the workplace for real life experiences. Businesses that supports our Outdoor Powersports Technology program:

- Brodner Equipment
- Bryce Marine
- Cycle Stop
- Danny's Equipment
- Hollink Motorsports
- LandPro Equipment
- Precision Power Services Inc.
- Wehner Mower Inc.

Articulation Agreements

- Alfred State
- Ohio Tech/ Power Sport Institute
- SUNY Canton



Career Outlook

All CTE programs correlate to many careers paths. Use the links below to explore more. One example:

Job Projections for Small Engine Mechanic: 17% projected growth in New York State jobs 2016-2026.

New York State salary range: \$27,310 entry level- \$43,040 experienced

Education Requirements: Small engine mechanics typically attend a career and technical education program, or learn their trade through on-the-job training.

Explore more:

<https://www.careerzone.ny.gov/>

<https://www.onetonline.org/find/>



WEMOCO Career & Technical Education Center
Monroe 2-Orleans Board of Cooperative Educational Services
Monroe2BOCES.org/cte 585-352-2471
3589 Big Ridge Road, Spencerport, New York 14559



Outdoor Powersports Technology

Employability Profile

<p><u>Career Readiness</u></p> <p>Attendance _____</p> <p>Punctuality _____</p> <p>Appropriate Workplace appearance _____</p> <p>Takes Initiative _____</p> <p>High Quality of work _____</p> <p>Knowledge of workplace ethics _____</p> <p>Responsive to supervisor _____</p> <p>Effective Communication skills _____</p> <p>Solves problems _____</p> <p>Makes decisions _____</p> <p>Cooperates with others _____</p> <p>Resolves conflict _____</p> <p>Observes critically _____</p> <p>Takes responsibility for learning _____</p> <p>Reads with understanding _____</p> <p>Solves problems using math _____</p> <p>Complies with health and safety rules _____</p> <p>Uses technology appropriately _____</p>	<p><u>Troubleshooting & Diagnostics</u></p> <p>Able to troubleshoot/diagnose using battery load tester(s) _____</p> <p>Able to troubleshoot/diagnose fuel/fuel supply related issues _____</p> <p>Able to troubleshoot/diagnose using inline and cranking spark testers _____</p> <p>Able to troubleshoot/diagnose using compression and leak down testers _____</p> <p>Able to troubleshoot/diagnose using 12 volt test light (Not Applicable) _____</p>	<p><u>4-Stroke Cycle Engine Principles of Operation & Rebuild</u></p> <p>Demonstrate the ability to troubleshoot/diagnose engine failures in a safe and effective manner _____</p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to rebuild a single cylinder 4-Stroke engine _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>	<p><u>Snowmobile Preventive Maintenance & Service</u></p> <p>Demonstrate the ability to properly prepare the fuel system, engine, and machine for off season storage _____</p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>
<p><u>Tools of the Trade</u></p> <p>Properly use and care for common hand and power tools _____</p> <p>Safely operate common shop equipment _____</p> <p>Safely setup, operate, and shut down an Oxy-Acetylene torch _____</p> <p>Safely setup, operate, and shut down a Mig welder (basic) _____</p>	<p><u>Precision Engine Measurement</u></p> <p>Able to handle, calibrate, and care for precision measuring instruments _____</p> <p>Describe/choose measuring instruments best suited for individual tasks _____</p> <p>Demonstrate the ability to take measurements and calculate clearances _____</p> <p>Locate manufacturer specifications from service manuals _____</p>	<p><u>Fuel Systems/Carburetion</u></p> <p>Demonstrate the ability to troubleshoot/diagnose fuel systems and carburetors in a safe and effective manner _____</p> <p>Demonstrate the ability to rebuild a variety of different styles of carburetors _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>	<p><u>Marine Preventive Maintenance & Service</u></p> <p>Demonstrate the ability to properly prepare the fuel system, engine, outdrive, and boat for off season storage _____</p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>
	<p><u>2-Stroke Cycle Engine Principles of Operation & Rebuild</u></p> <p>Demonstrate the ability to troubleshoot/diagnose engine failures in a safe and effective manner _____</p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to rebuild the top end of a 2-Stroke engine _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>	<p><u>Electrical; Starting & Charging and Ignition Systems</u></p> <p>Demonstrate the proper use and care of electrical testing instruments in a safe and effective manner _____</p> <p>Demonstrate the ability to troubleshoot/diagnose electrical systems in a safe and effective manner _____</p> <p>Demonstrate the ability to troubleshoot/diagnose ignition systems in a safe and effective manner _____</p>	<p><u>Dirt Bike/All Terrain Vehicle Preventive Maintenance & Service</u></p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>
		<p><u>Outdoor Power Equipment Preventive Maintenance & Service</u></p> <p>Demonstrate the ability to properly prepare the fuel system, engine, and machine for off season storage _____</p> <p>Demonstrate the ability to perform common service and preventative maintenance procedures _____</p> <p>Demonstrate the ability to fine-tune and make necessary adjustments _____</p>	