

HEAVY EQUIPMENT OPERATION AND MAINTENANCE

Big machines that have the power for big opportunities

Gear up for a career behind the wheel of big rigs and construction equipment. Start the engine of your career with basic operating techniques. Dig into the world of power tools and ensure machines stay in top shape through preventative maintenance. Drill further into your potential as you explore career opportunities and prepare for a commercial driver license (CDL).



What You Can LEARN

Units of Study

- Basic Operating Techniques
- Orientation to the Trade
- Identification of Heavy Equipment
- Introduction to Hand and Power Tools
- Welding/Oxy-Acetylene Torching
- Preventative Maintenance of Heavy Equipment
- Career and Financial Management
- Career Exploration
- Basic Employability and Leadership Skills
- CDL General Knowledge Exam Prep
- CDL Airbrake Prep
- Certified Excavator Program Training
- Principles of Diesel Engines, Powertrains, Machine Electronics, Hydraulics, Air Brakes, and Crawler Tractors



What You Can EARN

Available High School Academic Credits

At district request, students may earn:

- English

Licensing/Industry-Based Certifications

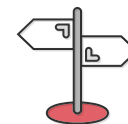
Students have opportunities to earn:

- Red Cross First Aid/CPR/AED
- NCCER Certifications for Core and Level 1 Heavy Equipment Operations Modules
- OSHA 10 Construction Industry
- Dig Safely New York Certified Excavator Program (CEP)
- NYS CDL Class B Exam Prep

Work-Based Learning

Organizations that support this program:

- Brodner Equipment
- The Dolomite Group
- Monroe County Parks
- Monroe Tractor
- Spencerport Volunteer Fireman's Association
- Springdale Farms



Where You Can GO

Career Opportunities

Minimal Requirement Beyond CTE

- Equipment Operator
- Heavy Duty Mechanic Assistant

Additional Education and/or Experience

- Site Engineer
- Project Estimator
- Land Developer

Postsecondary Pathways

Articulation Agreements

- Alfred State

Now You Can **KNOW**

In Rochester, the demand for heavy equipment operators is expected to grow by 15% over the next decade.



Monroe 2-Orleans BOCES Career and Technical Education

WEMOCO Career and Technical Education Center

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