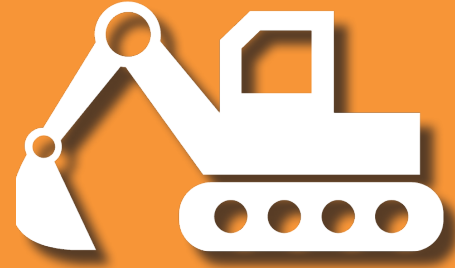


HEAVY EQUIPMENT OPERATION AND MAINTENANCE

Big machines that have the power for big opportunities

Prepare for a rewarding career in the construction industry. Develop foundational skills in the operation of commercial trucks and construction equipment while gaining hands-on experience with industry-standard tools and machinery. Learn essential knowledge and safety procedures, including preventative maintenance practices that keep equipment operating efficiently. Explore a variety of high-demand career pathways and build the skills needed to pursue a Commercial Driver License (CDL) and other industry credentials.



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
- 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
- Forklift Repair and Operation



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
- Inspection, Maintenance and Minor Repair (IMMR) ASE Certification

Work-Based Learning

- School-Based Learning
- Educational Tours
- Guest Speakers
- Career Fair
- Co-op
- Job Shadow



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
- Pennsylvania College of Technology



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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