



# Heavy Equipment/Diesel Equipment Technology

Grades 11 & 12

Heavy Equipment/Diesel Equipment Technology is a two-year program open to all high school juniors and seniors. Students who have an interest in working with equipment in the transportation, construction, or agricultural industry should consider this program. Students will be working on various pieces of equipment such as: heavy duty trucks (pickups and semis), tractors, forklifts, backhoes, bulldozers, skid steers and hydraulic excavators. Students will work in groups on projects like engine teardown, overhaul and failure analysis.

## Objectives are:

1. To provide instruction to help students achieve the skills and experiences necessary so that they may gain employment.
2. Prepare students that wish to study at college with general repair knowledge to help them achieve success in their post-secondary goals.
3. To provide students with job seeking skills necessary to find and obtain employment in the industry of their choice.
4. Assist students in developing and maintaining work habits, proper attitudes, and the ability to work harmoniously with others.
5. Provide students with leadership training activities that will enlarge their vision and enrich their lives for better citizenship through leadership organizations such as SkillsUSA.

## Program Highlights

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|---|--|--|
| Overhaul / Service & Tune-up Medium and Heavy Duty Diesel Engines | Basic Welding (Arc, Acetylene, MIG)          | Air Conditioning Service & Troubleshooting |
| Transmissions / Clutches / Torque Converters & Air Brake Systems  | Heavy Equipment Preventative Maintenance     | Troubleshoot & Service Hydraulic Systems   |
| 12 / 24 Volt Electrical Charging & Starting Circuits              | Electronic Engine Controls & Troubleshooting | Heavy Equipment Operation                  |

## Applied Academics

Students enrolled in this program can earn credits that will satisfy core academic requirements in English Language Arts, Math and Science. Through the integration of these core academics, achieving a Regents Diploma remains in reach.

## College Agreements

In addition to gaining the skills needed to enter the workforce, this program provides an excellent foundation for students looking to enter a college program. Articulation agreements for college credit are in place with: Alfred State School of Applied Technology and the University of Northwestern Ohio.

## How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during normal school day. To learn more, speak with your high school counselor or you can contact Orleans/Niagara BOCES Orleans Career and Technical Education Center Principal Mr. Michael Mann at [mmann@onboces.org](mailto:mmann@onboces.org).

## Teacher Information

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