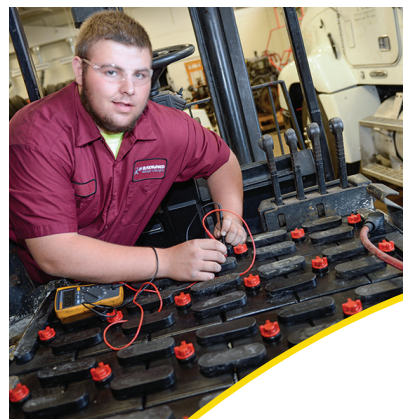


Industrial Diesel Mechanics

greatoaks.com/diesel



Industrial Diesel Mechanics

Available at: Laurel, Scarlet

COURSES

Truck Diesel Engines

Students will inspect, diagnose, and repair diesel truck engines. Students will learn the principles of valve train assemblies, lubrication, intake, exhaust and fuel systems. Additionally, skill development in engine testing, inspection and repair of electronic fuel management systems are emphasized. Students will break down and assemble heavy truck engines and supporting systems.

Truck Braking, Suspension, and Steering Systems

Students will perform inspections, troubleshoot malfunctions, and service truck undercarriage systems. Students will identify poor-performing air brake systems and replace malfunctioning components. Students will install leaf springs, shock absorbers and air suspension components. Students will inspect and replace truck steering components and replace wheel bearings. Additionally, students will perform wheel alignment and tire inspections, diagnostics, and repair. Identifying workplace risk factors associated with repetitive motion and lifting, operating, and moving of a heavy object is emphasized.

Ground Transportation Electrical/Electronic

Student will diagnose and repair vehicle electrical systems including chassis electrical, charging, starting and lighting systems. Students will learn the fundamentals of direct current (DC) electronics including series, parallel, and series parallel circuits. Students will use electronic diagnostic tools, read schematics, and utilize printed and electronic repair manuals to troubleshoot electrical circuits, test components and replace defective modules.

Ground Transportation Maintenance*

In this course, students will apply skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins and perform maintenance on vehicles. Students will inspect and service engine, drive train, suspension, steering, electrical and braking systems. Students will perform ignition maintenance including spark plug/glow plug and ignition wire and coil pack replacement. Additionally, students will change fluids and filters and inspect vehicles for leaks and fluid condition.

**These courses are eligible for college credit under the Career-Technical Assurance Guide (CTAG.)*

For more information about what CTAG is: ohiohighered.org/transfer/ct2/earning-college-credit

To learn what credit is currently available at Ohio colleges and universities: transfercredit.ohio.gov/pg_9?9915099094718

CREDENTIALS YOU CAN EARN

- ASE Student Certifications
- OSHA 10 –General Industry
- CPR/First Aid

INSTRUCTORS

- Laurel Oaks: Gary Bronson – bronsong@greatoaks.com
- Scarlet Oaks: Dennis Hogel – hogeld@greatoaks.com