

# Industrial Diesel Mechanics



Laurel Oaks  
Scarlet Oaks



**MORE INFO**  
[greatoaks.com/diesel](http://greatoaks.com/diesel)

Skills recommended to be successful in this career pathway:

## TRANSPORTATION SYSTEMS CAREER CLUSTER

### ESSENTIAL SKILLS

- Oral communication
- Written communication
- Physical strength/mobility
- Safety awareness
- Visual acuity/depth perception
- Perceptual speed/clerical & auditory perception
- Reasoning skills/mechanical aptitude
- Eye/hand/arm coordination/manual dexterity

### ACADEMIC SKILLS



#### APPLIED MATHEMATICS

- Measure to the 1/1000 of inch
- Convert metric/standard
- Measure torque, pressure, fluids, electric current, and angles



#### WORKPLACE DOCUMENTS

- Read/interpret technical manuals
- Understand estimates and bills
- Use DOT inspection guidelines



#### GRAPHIC LITERACY

- Interpret product labeling
- Understand technical diagrams
- Use flow charts

### DID YOU KNOW STUDENTS IN THIS PROGRAM...

- \* Work in confined spaces at times
- \* Sometimes lift items up to 75 pounds
- \* Troubleshoot and develop solutions to problems
- \* Are physically active and move around while working on equipment
- \* Learn transferable skills that can be used in other areas
- \* Must be aware of surroundings to maintain a safe work area
- \* Use various types of tools including precision tools
- \* Work with grease, engine fluids and other mechanical chemicals
- \* Use various computer applications and scan tools



### COURSES



**YEAR 1**

- Truck Diesel Engines
- Truck Braking Systems



**YEAR 2**

- Ground Transportation Electrical/Electronics
- Ground Transportation Maintenance



VIEW Great Oaks Course Guide  
[greatoaks.com/course-guide](http://greatoaks.com/course-guide)

*\*Courses subject to change.*

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## IS THIS YOU?



Find your work personality type with this free assessment at [truity.com](http://truity.com):



Holland's Model of Occupational Themes – graphic courtesy of the University of Tennessee.

## Realistic | Conventional

Realistic personality types are “doers;” they like doing something, as opposed to talking or thinking about it. They like to solve problems in the real world. They are practical, independent, assertive, competitive, and interested in activities that require motor coordination, skill, and strength. Doers with a secondary personality type of “conventional” like to work in organized, independent and structured environments.

### Key strengths that lead to success in this career path

- ✓ Adaptability/flexibility
- ✓ Attention to detail
- ✓ Dependability
- ✓ Stress tolerance
- ✓ Analytical thinking
- ✓ Integrity

## WORK-BASED LEARNING OPPORTUNITIES

- ▶ Job shadowing at dealerships and independent shops
- ▶ Job placement
- ▶ Field trips
- ▶ Customer work in lab
- ▶ Internship programs
- ▶ Collaboration with other labs
- ▶ Work with outside professionals

## COLLEGE & CAREER READY

### Career Credentials

- ASE Student Certifications: Medium Heavy Truck Brakes, Medium Heavy Truck Diesel Engines, Medium Heavy Truck Electrical/Electronic Systems, Steering and Suspension, Medium/Heavy Truck Inspection Maintenance and Minor Repair
- Forklift Operation
- OSHA 10 – General Industry
- Snap On Battery Charging
- Snap On Multimeter
- CPR/First Aid



For more information, visit [ohiohighered.org](http://ohiohighered.org)

## CAREER PATHWAYS

After earning credentials, get more education and experience to



- ▶▶ Mechanic
- ▶▶ Equipment salesperson
- ▶▶ Service writer/manager
- ▶▶ Transportation supervisor
- ▶▶ Industrial maintenance technician
- ▶▶ Alternative fuel vehicle technician



VIEW Essential Skills Guides  
[greatoaks.com/essential-skills](http://greatoaks.com/essential-skills)

Entry-level pay range in Ohio

**\$16 - 31**  
per hour



Great Oaks alum Ben Boone

