



DIESEL TECHNOLOGY

WHITEWATER CAREER CENTER

PROGRAM OVERVIEW

Diesel Technology is a hands-on program. If you like to disassemble things to see how they work and think that you might enjoy working on diesel-fueled tractor trailers and heavy equipment, then you should consider this program.

YOU WILL LEARN

- Diesel engine operating principles
- Diagnostic & repair techniques
- Engine overhaul & replacement
- How to service tractor trailers and farm & construction equipment

A TYPICAL STUDENT

The typical student is one that enjoys hands-on learning. Successful students have the patience and attention to detail to solve problems using the skills they have learned. They can work on projects independently or with other students. They take initiative, check their work as needed, and stay on task without constant supervision. Safety is a primary focus, and students must follow the guidelines to keep themselves and others safe.

GET YOURSELF READY

To be prepared for success, be on track for graduation and develop a good work ethic. The following pathway courses will help prepare you for the Diesel Technology career program, further education and training, and a career in the automotive industry:

- Preparing for College & Careers
- Introduction to Transportation
- Other technology courses



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Where opportunities flow

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www.WhitewaterCareerCenter.org



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CERTIFICATIONS & DUAL CREDITS

INDUSTRY CERTIFICATIONS

ASE (National Institute for Automotive Service Excellence)

Industry certifications and dual credits are earned in year two.

VINCENNES UNIVERSITY DUAL COLLEGE CREDITS

DESL 130

Diesel Engine Systems

3 credits

DESL 130L

Diesel Engine Systems Lab

3 credits

YEAR ONE

Students learn engine operating principles and theories as well as diesel-fuel systems. The program is designed to provide hands-on training related to modern diesel engines. Topics covered include inspection, troubleshooting, overhaul, and engine replacement procedures. The typical school day is divided between classroom and lab experiences concerned with all phases of repair work. Instruction and practice is provided in the diagnostics and repair of engines. The use of technical manuals, hand and power tools, and testing and diagnostic equipment is also studied in the program.

YEAR TWO

Diesel Technology II expands on the classroom and lab experiences from Diesel Technology I and focuses on diagnosis and repair of diesel electrical systems used to power buses, tractor trailers, electrical generators, construction and farm machinery, and similar equipment. Utilization of analog and digital meters, wiring diagrams, and other diagnostic tools are stressed as students are introduced to automotive electrical theory, batteries, charging systems, starting systems, wiring repairs, brake systems, clutch systems, suspension systems, lighting systems, and accessories. This lab operates as a repair shop, and students gain experience working on customer projects.

WHEN YOU FINISH

Upon completion of this program, students are prepared for entry-level employment in the diesel technology industry. Students may also continue their education in 2 and 4-year degree programs, begin apprenticeships, or enter the military.

POTENTIAL CAREERS

- | | NATIONAL MEAN WAGE |
|--|--------------------|
| • Bus, Truck Mechanics & Diesel Engine Specialists | \$48,000 |
| • Heavy Vehicle & Mobile Equipment Service Technicians and Mechanics | \$50,800 |

All career and salary information is cited from the U.S. Department of Labor Bureau of Labor Statistics, May 2017 National Occupation Employment & Wage Estimates.



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