



DIESEL TECHNOLOGY

WHITWATER CAREER CENTER



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 and repair techniques
- How to service tractor trailers, electric generators, and farm and construction equipment
- Engine overhaul and replacement



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, be on track for graduation and do well in academic classes. Employment and admission into apprenticeship and specialty training programs can be competitive. To increase your chances, do your best in all high school courses. The following courses will help prepare you for the Diesel Technology career program, further education and training, and a career in the automotive industry:

- Algebra I
- Geometry
- Introduction to Transportation





POTENTIAL CAREERS

- Diesel Service Technician and Mechanic
\$43,630
- Heavy Vehicle & Mobile Equipment Service
\$45,930

All career and salary information is cited from the Bureau of Labor Statistics.



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.

Industry certifications and dual credits are earned during year two.



YEAR TWO

Diesel Technology II expands on the classroom and lab experiences from Diesel Technology I and focuses on diagnostic 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, lighting systems, and accessories.

Industry Certifications
ASE (National Institute for Automotive Service Excellence)

Vincennes University Dual College Credits		
DESL 130	Diesel Engine Systems	3 credits
DESL 130L	Diesel Engine Systems Lab	3 credits

Year one and year two are taught in alternating years.



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.



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