



# 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



# WHITEWATER

CAREER CENTER

Where opportunities flow

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1300 Spartan Drive, Connersville, IN 47331  
765.825.0521



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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

## COURSE CONTENT

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 as well as all other systems. 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. This lab operates as a repair shop, and students gain experience working on customer projects.

## MEET GRADUATION PATHWAYS

### PATHWAY 1 HIGH SCHOOL DIPLOMA

Students can earn 6 high school elective credits per school year at WCC. WCC courses can also lead to a Technical Honors Diploma.

### PATHWAY 2 EMPLOYABILITY SKILLS

All WCC programs have a work-based learning component built into the curriculum.

### PATHWAY 3 POSTSECONDARY READY

Students can meet the requirement by completing 2 years of a career program at WCC, or earning industry certification.

## 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                   | \$49,150           |
| • Heavy Vehicle & Mobile Equipment Service Technicians and Mechanics | \$51,780           |

All career and salary information is cited from the U.S. Department of Labor Bureau of Labor Statistics, May 2018 National Occupation Employment & Wage Estimates.



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