



Diesel Technology

Assunpink Center

This program is designed to prepare students for entry into the diesel and truck career field. Students enrolled in this program will learn the theory, functions, diagnostics, and repair of diesel engines and natural gas fuel systems. Using industry-standard tools and equipment, students will diagnose and repair electrical, mechanical, and fuel delivery systems on diesel engines, trucks, and trailers. Upon successful completion of the program, the graduate should possess knowledge and versatility in the diesel and truck repair field to qualify for entry-level positions as a mechanic, technician, mechanic's helper, or fleet service technician in truck dealerships, fleet maintenance departments, private repair enterprises, or franchised truck repair organizations.

In addition to the technical training, a critical aspect of our program is developing the professional skills that are required by our employers. Our program is accredited by the Automotive Service Excellence Education Foundation by completing its rigorous five-step accreditation process. Our students will need to demonstrate skill proficiency through a series of ASE Entry-level assessments and tested on the Medium/Heavy Master Truck Service Technician (MTST) accreditation tasks, leading them to stackable industry-valued credentials. Entry-level certification exams and M/H Truck accreditation tasks are integrated into each course in topics such as Brakes, Diesel Engines, Electrical/Electronic Systems, Suspension & Steering, and Inspection Maintenance & Minor Repair. In addition to the industry-valued credentials and participation in their respective Career Student Technical Organization, SkillsUSA. Students who successfully complete this program may be afforded prior learning assessment (PLA) credits with Mercer County Community College.

Diesel Technology I

Grade Level: 11 Credits: 20

This course provides the student with basic knowledge and skills in light, medium, and heavy-duty truck safety, maintenance, and inspections. Students will experience hands-on lab activities related to heavy-duty diesel engines, power train units, steering and suspension components, brakes, electrical, and fuel systems, as well as developing oxy acetylene and arc welding skills. Additionally, students will take an intense OSHA 10 course which introduces students to the importance of maintaining a healthy and safe work environment. After year 1 of Diesel Mechanics Technology, students will be able to identify, avoid, control, and prevent job site hazards. Students receive an OSHA 10 card after completing Diesel Mechanics Technology I. Upon successful completion of this course, students have the opportunity to receive "Entry-Level ASE" certificates in Brakes and Electrical/Electronic Systems.

Diesel Technology II

Grade Level: 12 Credits: 20

Year two (2) of this program provides a deeper exposure to diesel engines, drive trains, properly checking suspension and steering systems, and how to inspect A/C compressor drive belts, pulleys, and tensioners. They will also be able to verify the proper belt alignment and hydraulics related to heavy vehicles and mobile equipment. Students will be able to successfully inspect, maintain, and repair vehicles and machinery used in construction, farming, railways, and road transportation. Upon successful completion of this course, students have the opportunity to receive "Entry-Level ASE" certificates in Diesel Engines, Suspension & Steering, and Inspection Maintenance and Minor Repair.



Assunpink Center
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Industry Valued Credentials & Certifications

OSHA 10 certification
Automotive Service Excellence (ASE) Entry Level Certification

Articulation Agreements

Mercer County Community College



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