

DIESEL & HEAVY EQUIPMENT TECHNICIAN



Two-Year Technical Diploma
 32-412-1

Diesel and heavy equipment technicians repair and maintain transportation equipment, such as heavy trucks, buses, locomotives, ships, and automobiles; construction equipment such as bulldozers, cranes, and road graders; and farm equipment such as tractors and combines. Many technicians perform a broad range of repairs from engines to electrical systems. Others specialize in repairs such as fuel and starting systems. Diesel and Heavy equipment technicians use a variety of computerized testing equipment to pinpoint and analyze malfunctions as well as numerous power and hand tools to perform repairs.

The Diesel and Heavy Equipment Technician Program is a two-year program providing job entry skills in service and repair of transportation, construction, industrial, and farm equipment. In addition to providing a foundation in the latest diesel technologies, the program improves skills needed to interpret technical manuals and communicate with coworkers and customers. Students in the program develop a broad base of skills, allowing them to enter the large and ever-expanding field of diesel and heavy equipment service and repair.

Upon successful completion of this technical diploma, students will be able to:

- Diagnose, repair and service brake systems
- Diagnose, repair and service Steering & Suspension Systems
- Diagnose, repair and service Electrical/Electronic Systems
- Diagnose, repair and service HVAC Systems
- Diagnose, repair and service Drive Train Systems
- Diagnose, repair and service Hydraulic Systems
- Diagnose, repair and service Diesel Engines

Graduates Have Found Employment As:

- Diesel Mechanic
- Diesel Mechanic Apprentice
- Engine Maintenance Mechanic
- Farm Equipment Mechanic
- Service Engine Repairer
- Tune-up Mechanic
- Industrial and Construction Equipment Mechanic
- Truck Mechanic

Semester 1		Credits
412-450	Introduction to Heavy Diesel	1
412-451	Brake Service 1	1
412-452	Brake Service 2	2
412-453	Brake Service 3	1
412-454	Steering & Suspension 1	1
412-455	Steering & Suspension 2	1
412-456	Steering & Suspension 3	1
412-457	Steering & Suspension 4	1
412-458	Drivetrain 1	1
412-459	Drivetrain 2	1
412-460	Drivetrain 3	1
412-461	Drivetrain 4	1
804-315	Trade Math	1
Credits		14
Semester 2		
412-462	Electrical Fundamentals 1	1
412-463	Electrical Fundamentals 2	1
412-464	Electrical Fundamentals 3	1
412-465	Electrical Fundamentals 4	1
412-466	Electrical Troubleshooting 1	1

412-467	Electrical Troubleshooting 2	1
412-468	Electrical Troubleshooting 3	1
412-469	Electrical Troubleshooting 4	1
412-470	Diesel HVAC 1	1
412-471	Diesel HVAC 2	1
412-472	Diesel HVAC 3	1
801-311	Communication	2
Credits		13

Semester 3

412-473	Advanced Safety Procedures	1
412-474	Engine Fundamentals 1	1
412-475	Engine Fundamentals 2	1
412-476	Engine Fundamentals 3	1
412-477	Engine Fundamentals 4	1
412-478	Engine Service Repair 1	1
412-479	Engine Service Repair 2	1
412-480	Engine Service Repair 3	1
412-481	Engine Service Repair 4	1
412-482	Engine Service Repair 5	1
412-483	Engine Service Repair 6	1
442-318	Introduction to Welding	1
442-336	Shielded Metal Arc Welding 1	1
Credits		13

Semester 4

412-484	Hydraulics 1	1
412-485	Hydraulics 2	1
412-486	Hydraulics 3	1
412-487	Hydraulics 4	1
412-488	Diesel Fuel Systems 1	1
412-489	Diesel Fuel Systems 2	1
412-490	Diesel Fuel Systems 3	1
412-491	Diesel Fuel Systems 4	1
412-497	Alternate Fuels	1
412-492	Inspection & Maintenance Procedures 1	1
412-493	Inspection & Maintenance Procedures 2	1
412-494	Inspection & Maintenance Procedures 3	1
412-495	Inspection & Maintenance Procedures 4	1
412-496	ASE Certification Review	1
Credits		14
Total Credits		54

General Education Courses Within Program

Code	Title	Credits
801-311	Communication	2
804-315	Trade Math	1