



Diesel Technology
Level 1 Certificate

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> DEMR 1301	Shop Safety and Procedures	3	F	F2F
<input type="checkbox"/> DEMR 1405	Basic Electrical Systems	4	F	F2F
<input type="checkbox"/> DEMR 1406	Diesel Engine I	4	F	F2F
<input type="checkbox"/> DEMR 1413	Fuel Systems	4	F	F2F
Second Semester				
<input type="checkbox"/> DEMR 1410	Diesel Engine Testing and Repair I	4	Sp	F2F
<input type="checkbox"/> DEMR 1442	Power Train Applications I	4	Sp	F2F
<input type="checkbox"/> DEMR 1449	Diesel Engine II	4	Sp	F2F
<input type="checkbox"/> DEMR 2432	Electronic Controls	4	Sp	F2F
Third Semester				
<input type="checkbox"/> DEMR 1416	Basic Hydraulics	4	Su	F2F
<input type="checkbox"/> DEMR 2312 or <input type="checkbox"/> DEMR 2380	Diesel Engine Testing and Repair II or Cooperative Education	3	Su	F2F
TOTAL CREDIT HOURS		38		



Diesel Technology
Level 1 Certificate

Manufacturing, Logistics, & Transportation Pathway

Transfer Opportunities

Terminal Certificate that leads to employment.

Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

Career Opportunities and Salaries

- Machinery Maintenance Worker - \$38,059
- Transportation Equipment Electrical & Electronics Installer & Repairer - \$55,295
- Motor Vehicle Electronic Equipment - \$32,564
- Bus & Truck Mechanics - \$40,931
- Diesel Engine Specialists - \$40,931
- Industrial Machinery Mechanics - \$47,364
- Automotive Specialty Technicians - \$37,025
- Motorboat Mechanics & Service Technician - \$36,248
- General Maintenance & Repair Worker - \$30,609
- Automotive Master Mechanic - \$37,025
- Farm Equipment Mechanics & Service Technician - \$37,931
- Parts Counterperson - \$26,490

Technical Skills

- 1) Perform electrical circuit analysis
- 2) Identify electrical symbols
- 3) Use special electrical testing tools
- 4) Test electrical circuits
- 5) Utilize specialized tools to diagnose or change electronic control parameters
- 6) Identify and test electronic sensors and actuator circuits
- 7) Evaluate fuel system components by inspection and testing
- 8) Utilize precision instruments to diagnose and repair basic systems and engines
- 9) Assess power train component failure
- 10) Demonstrate disassembly and reassembly of the diesel engine