

HEAVY/MEDIUM DUTY TRUCK ENGINE AND FUEL INJECTION TECHNOLOGY CERTIFICATE OF COMPLETION

The Heavy/Medium Duty Truck Engine and Fuel Injection Technology noncredit certificate offers students high technology training and skills that may be utilized for immediate employment after certification completion. Students will receive training in various subjects including repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines. The certificate will also cover basic electrical theory, use of meters, test equipment, and wiring diagrams. The certificate also covers general troubleshooting and diagnostic testing. The certificate may also be used in preparation for the Automotive Service Excellence (ASE) National Test.

Code	Title	Units
Required Courses		
HMDT 621	Heavy-Duty Truck Engines	0
HMDT 624	Advanced Heavy-Duty Truck Engines	0
HMDT 628	Heavy-Duty Truck Systems	0
HMDT 634	Heavy/Medium Duty Truck Alternative Fuels	0
HMDT 664	Auto/Truck Electrical Systems	0
Total Hours		480-540

Program Learning Outcomes

At the completion of this program, students will be able to:

- Diagnose, repair, operation and maintenance of heavy-duty industrial diesel engines and computer controlled diesel engines and alternative fuel (CNG)
- Have the understanding and knowledge to cover basic electrical theory, use of meters, test equipment, and wiring diagrams
- Prepare to take the the Automotive Service Excellence (ASE) National Test
- Perform routine servicing of heavy-duty vehicle engines by evaluating equipment conditions and successfully in a manner consistent with industry practices and safety standards