

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

---

The Heavy/Medium Duty Truck Engine and Fuel Injection Technology 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
<b>Required Courses</b>		
HMDT 021	Heavy-Duty Truck Engines	4
HMDT 024	Advanced Heavy-Duty Truck Engines	4
HMDT 028	Heavy-Duty Truck Systems	4
HMDT 034	Diesel Alternative Fuels	4
HMDT 064	Auto/Truck Electrical Systems	4
<b>Total Units</b>		<b>20</b>

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

***This is a Gainful Employment Program***

## 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)
- Cover basic electrical theory, use of meters, test equipment, and wiring diagrams
- 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