

# HEAVY/MEDIUM DUTY TRUCK TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

This certificate is designed to prepare students for entry-level positions for the repair and maintenance of heavy and medium duty engines in trucks, locomotives, heavy vehicles, and mobile heavy-duty equipment.

Code	Title	Units
<b>Required Courses</b>		
HMDT 021	Heavy-Duty Truck Engines	4
HMDT 022	Heavy-Duty Truck Brakes	4
HMDT 023	Heavy-Duty Truck Suspension and Steering	4
HMDT 024	Advanced Heavy-Duty Truck Engines	4
HMDT 026	Computer Controlled Truck Engines	4
HMDT 028	Heavy-Duty Truck Systems	4
HMDT 064	Auto/Truck Electrical Systems	4
or AUTO 064	Auto/Truck Electrical Systems	
<b>Total Units</b>		<b>28</b>

Code	Title	Units
<b>Recommended Course</b>		
HMDT 098	Heavy/Medium Duty Truck Work Experience	1-4

*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 and repair malfunctions in electrical systems and components
- Disassemble, inspect and repair parts, which are reusable in a manner consistent with accepted trade practices and assemble a diesel engine in accordance with manufacturer instructions and specifications
- Perform all necessary adjustments, demonstrate sequential steps taken in diagnosing heavy-duty truck brake systems and remove and replace components in a manner consistent with industry standards
- Diagnose heavy-duty truck suspension and steering systems and remove and replace components in a manner consistent with industry standards
- Diagnose the fuel system and tune-up problems using various electronic test equipment. Remove and replace components in a manner consistent with industry standards
- Perform routine servicing of heavy-duty vehicles by evaluating equipment conditions and successfully and safely removing and replacing tires and other equipment in a manner consistent with industry practices and safety standards
- Troubleshoot a truck electrical system failure, diagnose the cause and correctly repair that failure in accordance with accepted industry standards