HEAVY/MEDIUM DUTY TRUCK TECHNOLOGY ASSOCIATE OF SCIENCE DEGREE

The Heavy/Medium Duty Truck Technology degree prepares the students to seek employment in maintenance and repair of heavy/medium duty trucks at beginning level and can move to advanced level after some experience.

Code	Title	Units
Required Courses:		
CIT 101	Introduction to Computer Literacy	3
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	
Total Units		**31**

Code	Title	Units
Recommended Courses:		
HMDT 098	Heavy/Medium Duty Truck Work Experience	1-4
WELD 010	Introduction to Welding	2

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (https://www.valleycollege.edu/student-services/counseling/graduation-requirements/)

CSU GE requirements (https://www.valleycollege.edu/student-services/counseling/csuge/)

IGETC requirements (https://www.valleycollege.edu/student-services/counseling/igetc/)

Program Learning Outcomes

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

a. Diagnose and repair malfunctions in electrical systems and components.
b. 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.
c. 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.
d. Diagnose heavy–duty truck suspension and steering systems and remove and replace components in a manner consistent with industry standards.
e. Diagnose the fuel system and tune-up problems using various electronic test equipment's and remove and replace components in a manner consistent with industry standards.
f. Perform routine servicing of heavy-duty vehicles by evaluating tire and other equipment conditions and successfully and safely removing and replacing tires and other equipment in a manner consistent with industry practices and safety standards.
g. Troubleshoot a truck electrical system failure, diagnose the cause and correctly repair that failure in accordance with accepted industry standards.
h. Be prepared to transfer a core curriculum to an accredited, four-year college or university with junior class standing.