

ENGINE PERFORMANCE ASSOCIATE OF SCIENCE DEGREE

This degree is designed to prepare students for entry-level work as an engine performance specialist, diagnostic technician, or a state certified Smog check and repair technician. Students will become familiar with computer systems, hybrid and electrical systems, basic engine diagnosis, emissions repair, and the Smog certification test. To graduate with a specialization in Engine Performance, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses		
AUTO 010	Introduction to Hybrid and Electric Vehicle Technology	4
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep Or Certificate	4
AUTO 067	Engine and Emission Control Fundamentals	4
AUTO 068	Engine Performance - Ignition Systems	5
AUTO 069	Engine Performance - Fuel and Exhaust Systems	5
Total Units		26

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:

- Interpret automotive service manuals
- Write accurate repair orders, requests, reports and estimates
- Diagnose and repair engine performance systems
- Diagnose and repair automotive electrical systems
- Diagnose and repair emission systems
- Diagnose and repair ignition systems
- Diagnose and repair fuel systems
- Prepare students for A.S.E. tests A-6; A-8 and L-1
- Demonstrate how to perform basic maintenance related to hybrid and electric vehicles