

AUTOMOTIVE 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 062	Engine Performance	3
AUTO 062L	Engine Performance - Laboratory	1
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 065	Electrical Systems Diagnosis and Repair	4
AUTO 090	Engine Repair	3
AUTO 090L	Engine Repair - Laboratory	1
TECALC 087	Technical Calculations	4
Total Units		20

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. Interpret automotive service manuals
- b. Write accurate repair orders, requests, reports and estimates
- c. Diagnose and repair engine performance systems
- d. Diagnose and repair automotive electrical systems
- e. Diagnose and repair emission systems
- f. Diagnose and repair ignition systems
- g. Diagnose and repair fuel systems
- h. Prepare students for A.S.E. tests A-6; A-8 and L-1
- i. Perform basic maintenance related to hybrid and electric vehicles