

Automotive Technology

Degree Type

Certificate of Completion

Associate of Technical Science Degree

The automotive technology program is designed to prepare students for a career in the automotive repair field. It combines theory classes with practical shop work to properly train students for entry-level into the automotive industry.

Automotive Service Excellence (ASE) certification through National Technicians Education Foundation (NATEF) evaluation ensures that certified training programs meet or exceed industry-recognized, uniform standards of excellence. Graduates of the program will have achieved competencies based on ASE tasks. Student achievement will be based upon demonstrated performance ability and testing in all required areas, which promotes individualized instruction.

Prior to enrollment in the automotive technology program, students must achieve appropriate scores on the placement test that will qualify them for MATH 92 or higher (or have completed MATH 90), OCED 101 and OCED 102. Additionally, students must have a valid driver's license and a qualifying interview with one of the automotive program instructors during which they will also take a mechanical aptitude test. Students must pass each automotive course and supporting courses with a grade of "C" (2.0) or higher to remain in the program and to be eligible to receive the associate of technical science degree.

Students may elect to use a set of tools provided by WVC (for a \$75 deposit) while they acquire their own set of tools. Safety glasses and coveralls are required for all students.

Core program courses may have prerequisite requirements. English and mathematics courses require qualifying placement scores or acceptable preparatory coursework in those subjects. See course descriptions for details.

For more information about graduation rates, the median debt of students who completed the program and other important information, visit www.wvc.edu/autotech.

Suggested Course Sequence: Associate of Technical Science Degree and Certificate Program

Offered at Wenatchee campus

Total Credits		121
Course Sequencing		

First Year - Fall Quarter

[OCED 101](#): Placement score required.

Course ID	Title	Credits
AUTO 100	Shop Procedures	1.0
AUTO 110	Electrical Systems	5.0
AUTO 112	Engine Repair	4.0
AUTO 113	Engine Performance	5.0
OCED 101	Technical Reading	5.0

First Year - Winter Quarter

[OCED 102](#): Placement score required.

Course ID	Title	Credits
AUTO 114	Auto Transmission/Transaxle	5.0
AUTO 115	Manual Drivetrains	5.0
	OCED 102 Writing in the Workplace/Technical English or Higher	5.0
AUTO 116	Suspension Steering and Alignment Laboratory	5.0

First Year - Spring Quarter

Course ID	Title	Credits
AUTO 117	Brake Systems	7.5
AUTO 118	Auto Heating and Air Conditioning	7.5
	MATH 92 Intro to Technical Math or higher	5.0
BCT 116	Professional Work Relations	3.0

Total Credits for Certificate: 63

Second Year - Fall Quarter

Course ID	Title	Credits
	Elective	5.0
AUTO 210	Advanced Electrical Systems	7.5
AUTO 213	Advanced Engine Performance	7.5

Second Year - Winter Quarter

[AUTO 296](#): Cooperative Work Experience can be taken any quarter with instructor's permission.

Course ID	Title	Credits
AUTO 212	Advanced Engine Repair	5.0
AUTO 217	A.B.S. Brakers/Scanners	5.0
AUTO 219	Engine Drivability	5.0
AUTO 296	Cooperative Work Experience	1.0-5

Second Year - Spring Quarter

[AUTO 220](#): More in-depth training (study) in any offered automotive area to satisfy AUTO 220.

Course ID	Title	Credits
AUTO 220	Advanced Technical Practices	15.0
WELD 128	Basic Welding	3.0

Program outcomes

Students who complete the ATS in Automotive Technology should be able to:

- Demonstrate skills and knowledge in:
 - the fundamentals of operation of heating and air conditioning system and their components.
 - the use of the scan tools, lab scopes and various diagnostic equipment in the automotive industry.
 - the use of the various scan tools used to test anti- lock brake systems components and sensors.
 - the use of the various automotive scan tools, lab scopes and diagnostic equipment used in the automotive industry while testing engine management systems.
 - the use of tools to test, remove, disassemble, install and service the air conditioning system components.
- Demonstrate the ability to:
 - locate, use and analyze information and technology resources to perform workplace duties.
 - think critically (analyze, synthesize, evaluate and apply, problem solve, reason quantitatively and qualitatively) in workplace environments.
 - act responsibly as an individual and as a member of a team or group in a workplace environment.
- Acquire training and education to seek employment or advance in current employment in the automotive industry.
- Develop a foundation to continue their studies in automotive technology or related fields.
- Become ASE certified.
- Continue education with factory/and aftermarket training as available.

OCED 102 Writing in the Workplace/Technical English or Higher

Elective Credits 5

Course ID	Title	Credits
OCED 102	Writing In The Workplace	5.0

MATH 92 Intro to Technical Math or higher

Elective Credits 5

Course ID	Title	Credits
MATH 92	Introduction to Applied Math	5.0

Elective

Elective Credits 5