

# AUTOMOTIVE TECHNOLOGY, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Automotive Technology prepares students as entry-level technicians for the automotive field. This certificate will provide students with the skills and knowledge necessary to successfully perform diagnosis and repair in the automotive shop environment, using a combination of classroom and hands-on shop experiences. Students will be prepared to pass National Institute for Automotive Service Excellence (ASE) Certification tests including A1 Engine Repair, A4 Suspension and Steering, A5 Brakes, A6 Electrical/Electronic Systems, A8 Engine Performance and G1 General Service Technician.

- Examine and evaluate automotive brake systems and components.
- Prepare vehicles for drivability systems evaluation and operation.
- Diagnose and repair steering and suspension systems and components.
- Interpret automotive electrical wiring diagrams to aid in the diagnosis and repair of automotive electrical problems.
- Practice skills needed for industry and state certification test.

Course ID	Title	Units/ Hours
<b>Required Core Courses</b>		
AT R110	Introduction to Automotive Technology	6
AT R113	Automotive Engine Performance	6
AT R115	Automotive Electrical Systems	6
AT R116	Advanced Automotive Electrical and Electronics	3
AT R140	Automotive Steering and Suspension	6
AT R150	Automotive Braking Systems	6
<b>Total Units</b>		<b>33</b>

To earn a Certificate of Achievement (COA), a student must complete all courses within the certificate with a grade of "C" or better (or "P").

<b>Year 1</b>		
Fall Semester		Units/Hours
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
	<b>Units/Hours</b>	<b>12</b>
Spring Semester		
AT R116	Advanced Automotive Electrical and Electronics	3
AT R140	Automotive Steering and Suspension	6
	<b>Units/Hours</b>	<b>9</b>
<b>Year 2</b>		
Fall Semester		
AT R113	Automotive Engine Performance	6
AT R150	Automotive Braking Systems	6
	<b>Units/Hours</b>	<b>12</b>
	<b>Total Units/Hours</b>	<b>33</b>

Upon successful completion of this program, students will be able to:

- Practice environmental safety in accordance with applicable safety and environmental regulations governing the automotive industry.
- Interpret and analyze online service data, using industry standard written repair material and technical service bulletins to recommend repair and service vehicles.
- Identify specialized automotive service tools, electronic diagnostic equipment and basic hand tools.
- Organize and care of basic automotive tools and equipment and store safely.