

# AUTOMOTIVE STEERING AND SUSPENSION, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Automotive Steering and Suspension provides students with the technical knowledge and skills needed for entry-level technician jobs in the automotive industry specializing in the area of steering and suspension. Additionally, the program offers Ford online training for additional hiring possibilities. Upon completion of the coursework in this certificate, students will be prepared to take the National Institute for Automotive Service Excellence (ASE) A4 Steering and Suspension Certification exam. The ASE Suspension & Steering (A4) certification exam assesses the knowledge and skills related to: steering systems diagnosis and repair; suspensions systems diagnosis and repair; wheel alignment diagnosis, adjustment, and repair; and wheel and tire diagnosis and service.

Course ID	Title	Units/ Hours
<b>Required Core Courses</b>		
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
AT R140	Automotive Steering and Suspension	6
<b>Total Units</b>		<b>18</b>
<b>Year 1</b>		
<b>Fall Semester</b>		<b>Units/Hours</b>
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
	<b>Units/Hours</b>	<b>12</b>
<b>Spring Semester</b>		
AT R140	Automotive Steering and Suspension	6
	<b>Units/Hours</b>	<b>6</b>
	<b>Total Units/Hours</b>	<b>18</b>

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

- Diagnose and repair or replace steering and suspension systems and components.
- Practice environmental safety in accordance with applicable safety and environmental regulations governing the automotive industry.
- Integrate and analyze online service data, written repair material and technical service bulletins to repair and service a vehicle.
- Demonstrate proficiency in the use of specialized automotive service tools, electronic diagnostic equipment and basic hand tools while practicing on shop vehicles.
- Demonstrate the use and care of basic automotive tools and equipment.
- Interpret automotive electrical wiring diagrams to aid in the diagnosis and repair of automotive electrical problems.