

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** Introduction to Automotive  
**Prefix and Course Number:** AUTO 100

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Understand what is required of modern automotive service technicians.
- Obtain and maintain ASE certification and understand the importance of doing so.
- Being a safe technician for themselves and others around them.
- Demonstrate proper use and store hazardous materials.
- Properly store and dispose of hazardous waste materials.
- Use all tools and equipment that will typically be found in the automotive industry.
- Understand and apply the science and math involved with automotive repair and maintenance.
- Look up vehicle service information using All Data and Mitchell's OnDemand.
- Understand what is required to properly service and maintain modern vehicles.

**Course Outline**

- I. Careers in the Automotive Service Area
  - A. Automotive Background and Overview
  - B. Careers in the Automotive Service Industry
  - C. Starting a Career in the Automotive Industry
  - D. Working as a Professional Service Technician
  - E. Technician Certification
- II. Safety, Environmental and Health Concerns
  - A. Shop Safety
  - B. Environmental and Hazards Materials
- III. Tools, Shop Equipment and Measuring
  - A. Fasteners and Thread Repair
  - B. Hand Tools
  - C. Power Tools and Shop Equipment
  - D. Vehicle Lifting and Hoisting
  - E. Measuring Systems and Tools
- IV. Principles, Math and Calculations
  - A. Scientific Principles and Materials
  - B. Math, Charts and Calculations
- V. Vehicle Service Information, Identification and Routine Maintenance
  - A. Service Information
  - B. Vehicle Information and Emission Ratings
  - C. Preventative Maintenance and Service Procedures