

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

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**Course Title:** Toyota Heating and AC Lab

**Prefix and Course Number:** Auto 135

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**Course Learning Outcomes:**

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

- Demonstrate safe practices for working with compressed gases.
- Identify A/C systems components and their function in the refrigeration circuit.
- Have an in-depth knowledge of performing A/C service and repair work.
- Demonstrate leak detection techniques and proper use of a leak detector

**Course Outline:**

- I. Heating and Air Conditioning
  - A. Demonstrate safe practices while working with A/C systems
  - B. Demonstrate proper refrigerant idea procedures
  - C. Demonstrate proper leak detector operation and techniques
  - E. Demonstrate systematic diagnosis and the six-step process
  - F. Successfully operate a refrigerant recover/recharging machine
  - G. Locate the leak detector TSB using TIS then perform a leak test
  - H. Evaluate proper A?C operation using the touch and feel procedure
  - I. Evaluate proper A/C operation by interpreting manifold gauge pressures.
  - J. Locate and verify the operation of the heating and cooling controls
  - K. Demonstrate the purpose of the automatic temperature control system
  - L. Retrieve auto A/C diagnostic codes form the vehicle