

# AUTOMOTIVE HEATING & AIR CONDITIONING TECHNICIAN - CAREER PATHWAY CERTIFICATE OF COMPLETION (CPC)

## Program Description

The Automotive Heating and Air Conditioning Career Pathway Certificate of Completion gives students a hands-on opportunity to learn about automotive air conditioning and heating systems, the Environmental Protection Agency's recovery requirements for refrigerant systems, and general diagnosis and service.

The [certificate](#) prepares students for the [Automotive Service Excellence certification](#) in (A7) Automotive Heating and Air Conditioning, (A6) Electrical/Electronic Systems, and (G1) Maintenance and Light Repair.

## Program Learning Outcomes

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

1. Demonstrate appropriate basic technical knowledge and practical skills necessary for employment in Automotive Technology from previous basic skills courses, plus first level electrical / electronic courses.
2. Prepare for the national Refrigerant Recovery and Recycling Program.
3. Study pressure / temperature relationships as applied to Freon used in automotive systems.
4. Diagnose and repair air conditioning and heating controls.
5. Demonstrate the safe handling of Freon while repairing multiple vehicles.

## ENTRANCE REQUIREMENTS

### Academic Entrance Requirements

Required:

- Students must complete the following six courses before enrolling in other AUT courses: AUT 101 Basic Electricity for Automotive, AUT 102 Automotive Electric I, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, AUT 115 College Success for Automotive Technology

Recommended:

- High school diploma or GED

## ADDITIONAL PROGRAM COSTS (BEYOND STANDARD TUITION/FEES AND TEXTBOOKS)

### Material Costs

- Automotive Service Excellence certification: up to \$450 total for all eight areas of testing
- Tools: \$1,500 to \$2,500
- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200

## Enrollment Fees

- All AUT courses AUT 260 Diesel Performance II and higher: \$200 course fee
- All AUT courses lower than AUT 260 Diesel Performance II: \$15 course fee

## Course Requirements

Course	Title	Credits
<b>Core Courses</b>		
AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	4
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Automotive Technology	2
AUT 253	Automotive Air Conditioning	3
<b>Total Credits</b>		<b>18</b>

## Performance Standards

- Academic Requirements:
  - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
  - All courses in the program must be completed with a grade of C or higher

## Sample Plan

<b>First Year</b>		<b>Credits</b>
<b>Fall</b>		
AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Automotive Technology	2
<b>Credits</b>		<b>11</b>
<b>Winter</b>		
AUT 102	Automotive Electric I	4
<b>Credits</b>		<b>4</b>
<b>Spring</b>		
AUT 253	Automotive Air Conditioning	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>18</b>