

# UNDERCAR TECHNICIAN - CAREER PATHWAY CERTIFICATE OF COMPLETION (CPCC)

## Description

The Automotive Undercar Technician Career Pathway Certificate of Completion gives students an in-depth understanding of brakes, suspension, driveline, and electrical. It prepares students for a job in suspension and brakes as a technician or manager.

The certificate prepares students for Automotive Service Excellence certification in (A5) Automotive Brakes, (A4) Automotive Steering and Suspension, 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.
2. Study safety of hydraulic pressures and safety to validate vehicle safety. Demonstrate the correct method of brake and suspension repair.
3. Diagnose tire imbalance, deterioration, and the cause of tire wear.
4. Demonstrate the use of equipment for vehicle alignment.
5. Demonstrate the use of brake component machining.

## ENTRANCE REQUIREMENTS

### Academic Entrance Requirements

Required:

- Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity for Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, and 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 lower than 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 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 204	Steering and Suspension	3
AUT 208	Automotive Brakes	3
<b>Total Credits</b>		<b>17</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

### First Year

Fall		Credits
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>

### Winter

No program courses offered winter term		
<b>Credits</b>		<b>0</b>

### Spring

AUT 204	Steering and Suspension	3
<b>Credits</b>		<b>3</b>

### Second Year

Fall		Credits
AUT 208	Automotive Brakes	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>17</b>