

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.

- 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

Program Learning Outcomes

Upon successful completion of the certificate, 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
- Students must complete driving history verifications with COCC Campus Services Department during Automotive Program Orientation AUT 106
- Students must currently possess and maintain a valid Class C driver's license while enrolled in Automotive Programs except (AUT 101, AUT 107, AUT 110, AUT 115, and MFG 103 may be taken without a driver's license or driving history check)

Recommended:

- High school diploma or GED

Additional 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

Course Requirements

Course	Title	Credits
Core Courses		
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
Total Credits		17

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
Credits		11
Winter		
No program courses offered winter term		
Credits		0
Spring		
AUT 204	Steering and Suspension	3
Credits		3

Second Year

Fall

AUT 208	Automotive Brakes	3
Credits		3
Total Credits		17