

AUTOMOTIVE ENGINE TECHNICIAN - CAREER PATHWAY CERTIFICATE OF COMPLETION (CPCC)

Description

The Automotive Engine Technician Career Pathway Certificate Of Completion Preparation covers the automotive engine rebuilding process. Students all study diesel engine systems.

The certificate prepares students for the [Automotive Service Excellence certification](#) in (A1) Automotive Engine Repair, (A9) Light Vehicle Diesel Engines, 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. Apply the Otto Cycle and Diesel principles on internal combustion engines.
3. Perform a complete engine disassembly, measurements, and reassembly.
4. Perform various levels of machining and develop precision measurement techniques.
5. Diagnose diesel systems on assigned vehicles.

ENTRANCE REQUIREMENTS

Academic Entrance Requirements

Required:

- Students must complete the following five courses before enrolling in 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 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
Core Courses		
AUT 101	Basic Electricity for Automotive	2
AUT 105	Diesel Performance I	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 201	Automotive Engines	4
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		
AUT 105	Diesel Performance I	2
Credits		2
Spring		
No program courses offered spring term		
Credits		0
Second Year		
Fall		
AUT 201	Automotive Engines	4
Credits		4
Total Credits		17