

MASTER AUTOMOTIVE TECHNICIAN - TWO-YEAR CERTIFICATE OF COMPLETION (CC2)

Description

The Master Automotive Technician Two-Year Certificate of Completion prepares students to enter the transportation industry as an automotive technician. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic, and network systems. Communication skills are also highly emphasized.

The program is designed so that students will be able to complete in approximately 12 to 15 months and earn up to seven career pathway certificates.

Program Learning Outcomes

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

1. Model ethical behavior in a professional work setting.
2. Use effective written and oral communication.
3. Diagnose and repair electrical and mechanical issues.
4. Summarize the test standards and information needed to pass Automotive Service Excellence exams.
5. Perform National Automotive Technician Education Foundation P-1, P-2, and P-3 tasks.

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
- 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 102	Automotive Electric I	4
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	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 111	Computerized Engine Controls	5
AUT 115	College Success for Automotive Technology	2
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 251	Automatic Transmissions - Rebuild	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions Theory	2
AUT 280A & AUT 280B	Co-op Work Experience Automotive: A and Co-op Work Experience Automotive: B ¹	8
Select two Automotive Electives courses from the following:		2-4
AUT 112	Basic Engine Performance I	
AUT 113	Basic Engine Performance II	
AUT 114	Welding for the Automotive Trade	
AUT 211	ASE Test Prep I	
AUT 212	ASE Test Prep II	
Other Required Courses		
BA 214 or WR 121Z	Business Communications Composition I	3-4
BA 178	Customer Service	3
MTH 102	Applied Technical Mathematics	4
Total Credits		74-77

¹ Recommended preparation for CWE is 24 credits of automotive courses in addition to the basic skills courses.

Advising Notes

Full-time students are recommended to avoid working more than 15 hours per week due to a heavy course load.

It is recommended that the [Automotive Service Excellence](#) certification test be taken as the student completes the program.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

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
MTH 102	Applied Technical Mathematics	4
Credits		15

Winter

AUT 102	Automotive Electric I	4
AUT 103	Automotive Electric II	2
AUT 202	Manual Drive Trains I	3
AUT 205	Engine Performance I	2
BA 214 or WR 121Z	Business Communications or Composition I	3-4
Credits		14-15

Spring

AUT 104	Automotive Electric III	2
AUT 111	Computerized Engine Controls	5
AUT 206	Engine Performance II	2
Automotive Elective		1
Automotive Elective		1-3
BA 178	Customer Service	3
Credits		14-16

Second Year

Fall		Credits
AUT 105	Diesel Performance I	2
AUT 201	Automotive Engines	4
AUT 208	Automotive Brakes	3
Credits		9

Winter

AUT 203	Manual Drive Trains II	3
AUT 251	Automatic Transmissions - Rebuild	3

AUT 256	Automatic Transmissions Theory	2
AUT 280A	Co-op Work Experience Automotive: A	4
Credits		12
Spring		
AUT 204	Steering and Suspension	3
AUT 253	Automotive Air Conditioning	3
AUT 280B	Co-op Work Experience Automotive: B	4
Credits		10
Total Credits		74-77