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.

The program is accredited by the National Automotive Technicians Education Foundation, an arm of industry-certifying Automotive Service Excellence.

Program Learning Outcomes

Upon successful completion of the program, 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

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 102	Automotive Electric I	5
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 216A & AUT 216B	CWE Automotive A and CWE Automotive B [1]	8
AUT 251	Automatic Transmissions - Rebuild	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions Theory	2
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	Business Communications	3-4
or WR 121	Academic Composition	
Human Relations:		3-4
Choose one math course from the following:		3-4
BA 104	Business Math	
MTH 102	Applied Technical Mathematics	
Or one math course from the foundational requirements math list		
Total Credits		**74-79**

[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
Choose one math course from the following:		3-4
BA 104	Business Math	
MTH 102	Applied Technical Mathematics	
Or one math course from the foundational requirements math list		
	Credits	**14-15**
Winter		
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 202	Manual Drive Trains I	3
AUT 205	Engine Performance I	2
BA 214 or WR 121	Business Communications or Academic Composition	3-4
	Credits	**15-16**
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
Human Relations:		3-4
	Credits	**14-15**
Second Year		
Fall		
AUT 201	Automotive Engines	4
AUT 208	Automotive Brakes	3
AUT 251	Automatic Transmissions - Rebuild	3
	Credits	**10**
Winter		
AUT 105	Diesel Performance I	2
AUT 203	Manual Drive Trains II	3
AUT 256	Automatic Transmissions Theory	2
	Credits	**7**
Spring		
AUT 204	Steering and Suspension	3
Automotive Elective		1
Automotive Elective		1
	Credits	**5**
Summer		
AUT 253	Automotive Air Conditioning	3
AUT 216A	CWE Automotive A	4
AUT 216B	CWE Automotive B	4
	Credits	**11**
	Total Credits	**76-79**