

AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR- ONE YEAR CERTIFICATE OF COMPLETION (CC1)

Description

The Automotive Maintenance and Light Repair Certificate prepares students work in the Automotive Service Industry. Coursework includes technical skills in steering, suspension, brakes, air conditioning, electrical and electronic controls. Communication skills are also highly emphasized.

Program Learning Outcomes

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

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection, and warranty procedure.
2. Diagnose, service, and repair automotive internal combustion engines.
3. Diagnose, service, and repair automotive brakes.
4. Diagnose, service, and repair electronic engine controls and emission systems.
5. Diagnose, service, and repair automotive electrical systems.
6. Diagnose, service, and repair automotive drive trains.
7. Diagnose, service, and repair automotive climate control systems.

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 Costs (Beyond Standard Tuition/Fees and Textbooks)

Material Costs

- Automotive Service Excellence certification: up to \$125 for ASE G-1 Test
- Tools: \$1,500 to \$2,500
- Materials (coveralls, safety glasses, boots, t-shirts): \$200

Enrollment fees

- 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 208	Automotive Brakes	3
AUT 253	Automotive Air Conditioning	3

Other Required Courses

BA 214	Business Communications	3-4
or WR 121Z	Composition I	
COMM 218Z	Interpersonal Communication	3-4
or BA 178	Customer Service	
MTH 102	Applied Technical Mathematics	4

Total Credits **57-59**

Advising Notes

Recommended associated courses:

- Human Relations - BA 178 Customer Service
- Composition - BA 214 Business Communications

Performance Standards

- Students must maintain a current, valid class C driver's license.
- Students must pass classes with a grade of C or higher.
- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

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
AUT 202	Manual Drive Trains I	3
Credits		14
Winter		
AUT 102	Automotive Electric I	4

AUT 103	Automotive Electric II	2
AUT 203	Manual Drive Trains II	3
AUT 205	Engine Performance I	2
MTH 102	Applied Technical Mathematics	4

Credits	15
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Spring

AUT 104	Automotive Electric III	2
AUT 111	Computerized Engine Controls	5
AUT 204	Steering and Suspension	3
AUT 253	Automotive Air Conditioning	3
BA 214 or WR 121Z	Business Communications or Composition I	3-4

Credits	16-17
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Second Year**Fall**

AUT 105	Diesel Performance I	2
AUT 201	Automotive Engines	4
AUT 208	Automotive Brakes	3
COMM 218Z or BA 178	Interpersonal Communication or Customer Service	3-4

Credits	12-13
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Total Credits	57-59
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