

AUTOMOTIVE ELECTRICAL SYSTEMS SPECIALIST CERTIFICATE

Total Credits: 16

Catalog Edition: 2025-2026

Program Description

(R): 162

This certificate curriculum prepares individuals for employment in the automotive service industry as an electrical systems technician. The curriculum also prepares individuals for the ASE A-6 (Electrical/Electronic Systems) and L-3 (Light Duty Hybrid/Electric Vehicle Specialist) automobile technician certification exams. Credits may be applied to the automotive technology AAS.

Program Outcomes

Upon completion of this program, a student will be able to:

- Obtain gainful employment in the automotive service and repair (or related) industry.
- Complete successfully the following National Institute for Automotive Service Excellence (ASE) automobile technician certification exam: A-6 (Electrical/Electronic Systems), L-3 (light duty Hybrid/Electric Vehicle Specialist).

Program Advisors

Rockville

- Prof. Michael Carretta, 240-567-4121,
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For more information, please visit <https://www.montgomerycollege.edu/academics/programs/automotive-technology/automotive-electrical-systems-specialist-certificate.html>

2025-2026

Program Advising Guide

An Academic Reference Tool for Students

AUTOMOTIVE ELECTRICAL SYSTEMS SPECIALIST CERTIFICATE

Program Requirements

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

Program Requirements

AUTO 101 - Introduction to Automotive Technology 3
semester hours

AUTO 161 - Automotive Electricity I 4 *semester hours*

AUTO 262 - Battery/Starting/Charging 3 *semester hours*

AUTO 263 - Chassis Circuits 4 *semester hours*

AUTO 264 - Hybrid/Electric Vehicles 2 *semester hours*

Total Credit Hours: 16

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more, please visit <https://www.montgomerycollege.edu/transfer> or <http://artsys.usmd.edu>.

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

MC Student Clubs and Organizations: <https://www.montgomerycollege.edu/life-at-mc/student-life/>

Related Careers

Some require a Bachelor's degree.

Automotive Body and Related Repairer, Automotive Glass Installers and Repairer, Automotive Master Mechanic, Automotive Specialty Technician, First-Line Supervisor of Mechanics, Installers, and Repairers, Commercial and Industrial Equipment.

Career Services

Montgomery College offers a range of services to students and alumni to support the career planning process. To learn more, please visit <https://www.montgomerycollege.edu/career>

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area. Get started today on your road to a new future and give it a try. For more information, please visit <https://montgomerycollege.emsicc.com>

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