

Automotive Hybrid and EV Technology Certificate of Achievement - Active

Department: Automotive, Motorcycle, Construction & Building Maintenance

Effective Semester: Fall 2017

This certificate is for students seeking training in hybrid and electric vehicle maintenance. This certificate includes instruction in basic automotive systems (AUTO 50), a thorough understanding of automotive electrical systems (AUTO 51), and an in depth study of hybrid and electric vehicles, system operation, inspection, diagnosis and repair (AUTO 56). Prepares the student for entry-level employment in the maintenance and repair of existing and emerging technology hybrid and electric vehicles.

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish, classify and summarize automotive systems, functions, and their interrelation.
- Demonstrate safe shop practices and operate diagnostic equipment.
- Describe the function of vehicle electrical, hybrid, and battery system, systems and components.
- Identify, troubleshoot, analyze, diagnose, and repair existing and emerging hybrid and electric vehicles.
- Compare and contrast innovative fuel saving vehicle systems.

Students must complete each course with a grade of "C" or higher.

Students may apply for certificate having completed course work or equivalent standards within the past 5 years.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Automotive Hybrid and EV Technology

Course	Units
Required courses:	
AUTO 50 - Intro to Automotive Mechanics	9.00
AUTO 51 - Automotive Electrical	8.00
AUTO 56 - Introduction to Hybrid and EV Auto Maintenance and Repair	4.00
Total:	21.00
Total:	21.00

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