

EFFECTIVE DATE

08/17/2025

Certificate Type:Basic

Pathway:Career and Technical

Hybrid and Electric Vehicle Service Technician**Total Program Credits: 13**

The Hybrid and Electric Vehicle Service Technician Certificate prepares the students for entry-level employment in the automotive technology field, with specialized training in diagnosis, servicing, and repairing hybrid and electric vehicle (EV) systems. This program is designed to respond to growing demand from regional employers for technicians skilled in advanced powertrain systems, computerized engine controls, and onboard diagnostics (OBD II).

PROGRAM LEARNING OUTCOMES

Upon completion of the Hybrid and Electric Service Technician certificate, Students will be able to:

1. Evaluate high voltage hybrid and electric vehicle systems to identify malfunctions using diagnostic reasoning and industry-standard procedures.
2. Operate specialized EV diagnostic tools and test equipment (e.g., scan tools, oscilloscopes, milliohm/megohm meters) to collect and interpret data.
3. Apply personal protective equipment (PPE) protocols and high-voltage safety procedures per OSHA and ASE safety standards.
4. Create accurate, detailed repair orders and service documentation aligned with ASE/NATEF performance task expectations, demonstrating professional-level communication and documentation skills.

(New Spring 2025)

PROGRAM MAP FOR STUDENTS**SEMESTER ONE: FALL**

Course	Category	Credits
AUT 129 ◇ # Automotive Electricity & Electronics II	Core Course	3
AUT 226 ◇ # Engine Performance & Diagnosis	Core Course	5

SEMESTER TWO: SPRING

Course	Category	Credits
AUT 230 ◇ # Computerized Engine Controls	Core Course	5

KEY (CERT)		
General Education	Communications, Fine Arts, Humanities, Life Science, Mathematics, Physical Science, Social and Behavioral Science (see individual degree requirements).	
Core Course	Course(s) listed in a semester the student is required to take.	
Program Elective	Course(s) that faculty recommend and are listed in the 'Program Electives' section (if any) for this program.	If intending to transfer, choose courses accepted by your transfer institution.
General Elective	Course(s) chosen by the student, if needed, above and beyond core courses and program electives (if any), to complete the Program Total Credits.	
◇ symbol	This course is articulated. (course transfers to 3 or more Illinois State schools, as an elective or equal course-to-course)	
# symbol	This course has a prerequisite. (course(s) student takes prior to taking this course)	

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