

CERTIFICATE OF ACHIEVEMENT

Automotive EV Specialist

The courses in this certificate program are designed for technicians interested in the field of electric vehicles (EVs) in the transportation and equipment industry, and cover the general electrician skills needed to understand and diagnose modern EVs. Usage of the digital volt ohm meter (DVOM), inductive meter, megger meter, and oscilloscope are covered. Emphasis is placed on electrical fundamentals, symbols and circuit diagrams, high-voltage batteries, charging systems, heat pumps for cooling and heating, and LED lighting systems. Students learn the proper use of high voltage electrical diagnostic tools and equipment and how to perform vehicle electrical service and maintenance operations safely. Students also have the opportunity to perform minor repair work on hybrid and high voltage vehicles to complete required tasks. The completion of this certificate requires 75 hours of work experience in the electric automotive industry.

To acquire the **Certificate of Achievement in Automotive EV Specialist**, it is necessary to complete the following courses:

Required Courses	Units	N	IP	C
AUTO 131 Automotive EV Electronics I*	3			
AUTO 132 Automotive EV Electronics II*	3			
AUTO 157 Automotive Specialized Electronics Training*	4			
AUTO 260 Advanced Hybrid/Electric Vehicle	4			
AUTO 290 Work Experience Education/Internship for Automotive Technology-Related Fields	1			
Total units needed for Certificate of Achievement	15			
Units Completed				
*Prerequisite/Corequisite				
<i>Courses are not necessarily listed in order of enrollment; see prerequisites</i>				