

# AUTOMOTIVE HYBRID AND ELECTRIC VEHICLE SERVICE - CERTIFICATE OF ACHIEVEMENT

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This Certificate of Achievement will provide students with the foundational skills necessary to take the ASE L3 Light Duty Hybrid/Electric Vehicle Specialist Exam and be accepted into a manufacturer's training program for the service and repair Electric Vehicles (EV) and Hybrid/Electric Vehicles (HEV). Subjects covered will include Electric Vehicle Safety, EV and HEV design, High voltage battery service and repair, drive systems, the repair and service of power electronics.

## Program Learning Outcomes

- Utilize service information (electrical diagrams, diagnostic charts, specifications) to perform diagnosis and repair on hybrid and electric vehicles
- Complete all laboratory tasks using recommended tools and equipment following the manufacturer repair procedures and safety policies
- Describe the basic function and operation of major systems and parts common to most hybrid electric vehicles

Course	Title	Units
AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2
AUTO 105	Suspension, Steering, and Alignment	3
AUTO 106	Automotive Brake Systems	2
AUTO 122	Advanced Electrical Systems	3
AUTO 125	Automotive Electronics	2
AUTO 135	Air Conditioning Systems	2
AUTO 170	Electrical Systems	3
AUTO 181A	Introduction to Alternative Fuel and Hybrid/Electric Vehicles	2
AUTO 181B	Hybrid Electric Vehicle Maintenance and Repair	3
Recommended but not required: COMS 020 and BIS 109 or CIT 010		
<b>Total Units</b>		<b>25.5</b>