

AUTOMOTIVE HYBRID AND ELECTRIC VEHICLE SERVICE - CERTIFICATE OF ACHIEVEMENT

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 |
| Total Units | | 25.5 |