

Hybrid/EV Certificate in Automotive Services Technology

Career Curriculum 00AST 0056
Minimum Hours 5
Major Code: 1.2 470604
Effective Date: Fall 2022

SECOND YEAR – SPRING SEMESTER

Dept.	No.	
AST	201	Hybrid/EV History and Safety
AST	202	Hybrid/EV Diagnostic and Service

Hrs.	Grade
2	_____
3	_____
5	_____

NOTES AND INFORMATION

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

Screwdrivers

Pliers

Additional Tools

- | | | |
|---------------------------------|-----------------------|----------------------|
| (2) Slotted (1 small, 1 large) | (1) Slip Joint Pliers | (1) Hammer |
| (2) Phillips (1 small, 1 large) | (1) Diagonal Cutting | (1) Locking Tool Box |

Additional Information: Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as technicians, factory representatives, or teachers with a specialization in hybrid and electric vehicle service.

Career Opportunities: Diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and timelines of this document.