

Master Certificate

Automotive Services Technology

Hrs.

2

3

3

3

1

12

Hrs.

3

3 3

4

13

Hrs.

3

3

3

<u>4</u> 13 Grade

Grade

Grade

Career Curriculum 00AST 0052 Minimum Hours: 50 Major Code: 1.2 470604 Effective Date: Fall 2022

FIRST YEAR - FALL SEMESTER

Electrical I

FIRST YEAR - SPRING SEMESTER

College 101

Engine Repair

Electrical II

SECOND YEAR - FALL SEMESTER

Engine Performance I

Automotive Service Lab I

Engine Performance II

Automotive Service Lab II

Brakes, Steering and Suspension II

Automotive HAVC

Automotive Orientation and Safety

Brakes Steering and Suspension I

Automotive Maintenance & Light Repair

Dept. No.

Dept. No.

170

171

190

191

Dept. No.

261

282

283

291

AST

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AST AST 100

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183

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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		rs	Additional Tools	
(2) Slotted (1 small, 1 large)(2) Phillips (1 small, 1 large)	• •		 Hammer 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 line mechanics, diagnostic technicians, and industrial maintenance personnel, as well as shop managers, company technicians, factory representatives, or teachers.

Career Opportunities: Line mechanic, 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.

SECOND YEAR - SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	201	Hybrid/EV History and Safety	2	
AST	202	Hybrid/EV Diagnostic and Service	3	
AST	290	Drivetrain Basics	3	
AST	292	Automotive Service Lab III	<u>4</u>	
			12	