

Basic Certificate in Automotive Services Technology

Career Curriculum 00AST 0054
Minimum Hours: 24
Major Code: 1.2 470604
Effective Date: Fall 2022

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	100	Automotive Orientation and Safety	2	_____
AST	101	Automotive Maintenance & Light Repair	3	_____
AST	183	Brakes, Steering and Suspension I	3	_____
AST	180	Electrical I	<u>3</u>	_____
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FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	170	Engine Repair	3	_____
AST	171	Engine Performance I	3	_____
AST	190	Electrical II	3	_____
AST	191	Automotive Service Lab I	<u>4</u>	_____
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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

Pliers

Additional Tools

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|---------------------------------|-----------------------|----------------------|
| (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 entry level oil change technician, tire service stores, as well as independent or self-employment garages.

Career Opportunities: self-employment, oil change shops, tire stores, independent garages, and part-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.