## in

Automotive Services Technology

Career Curriculum 00AST 0052
Minimum Hours: 50
Major Code: 1.2470604
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 | 3 | - |  |
| ORI | 100 | College 101 | $\frac{1}{2}$ | - |  |
|  |  | 12 |  |  |  |
| FIRST YEAR - SPRING SEMESTER |  |  |  |  |  |
|  |  |  |  |  |  |
| Dept. | No. |  |  |  |  |
| AST | 170 | Engine Repair |  |  |  |
| AST | 171 | Engine Performance I | Grade |  |  |
| AST | 190 | Electrical II | 3 | - |  |
| AST | 191 | Automotive Service Lab I | 3 | - |  |
|  |  |  | $\underline{4}$ | - |  |

## SECOND YEAR - FALL SEMESTER

| Dept. | No. |  | Hrs. | Grade |
| :--- | :---: | :--- | :---: | :--- |
| AST | 261 | Engine Performance II | 3 | - |
| AST | 282 | Automotive HAVC | 3 | - |
| AST | 283 | Brakes, Steering and Suspension II | 3 | - |
| AST | 291 | Automotive Service Lab II | $\frac{4}{}$ | - |
|  |  |  | 13 |  |

## 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 $12-\mathrm{pt}$. Metric ( 10 mm through 19 mm )
(1) Ratchet
(1) Extension (3")
(1) Extension (6")

Drive Sockets (1/2" sq.)
(4) 6-pt. or 12 -pt. Standard ( $15 / 16^{\prime \prime}, 1^{\prime \prime}, 11 / 16^{\prime \prime}, 11 / 8^{\prime \prime}$ )
(4) 6 -pt. or $12-\mathrm{pt}$. Metric ( $21 \mathrm{~mm}, 22 \mathrm{~mm}, 24 \mathrm{~mm}, 27 \mathrm{~mm}$ )
(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 ( $10 \mathrm{~mm}, 12 \mathrm{~mm}, 13 \mathrm{~mm}, 14 \mathrm{~mm}, 15 \mathrm{~mm}, 17 \mathrm{~mm}, 19 \mathrm{~mm}$ )

## 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 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 partsrelated 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.

