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

<table>
<thead>
<tr>
<th>Dept. No.</th>
<th>Course Title</th>
<th>Hrs.</th>
<th>Grade</th>
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<tbody>
<tr>
<td>AST 100</td>
<td>Automotive Orientation and Safety</td>
<td>2</td>
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<tr>
<td>AST 101</td>
<td>Automotive Maintenance &amp; Light Repair</td>
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<td>AST 183</td>
<td>Brakes, Steering and Suspension I</td>
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<td>AST 180</td>
<td>Electrical I</td>
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FIRST YEAR – SPRING SEMESTER

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<tr>
<td>AST 170</td>
<td>Engine Repair</td>
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<tr>
<td>AST 171</td>
<td>Engineer Performance I</td>
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<td>AST 190</td>
<td>Electrical II</td>
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<td>AST 191</td>
<td>Automotive Service Lab I</td>
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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 Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

**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.