

Automotive Technology 47.0600 3 & 4
Scope & Sequence: Year 2 – Intermediate Auto

Semester 1		Semester 2	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
Technical Standards: 9.0 Professional Standards: 1D, 7.0, 8.0 <u>Unit 1</u> Safety <ul style="list-style-type: none"> Perform Vehicle Protection Apply Customer Relations <i>*SP/2 Completion</i> Technical Standards: 8.0 Professional Standards: 1D, 3.0, 4B, 5A <u>Unit 2</u> MLR / Tune-Up <ul style="list-style-type: none"> Verify Eng. Temp. Diag. Sec. Ign. Replace Plugs Replace Filters Service PCV Sys Technical Standards: 5.0 Professional Standards: 3.0; 4F; 5.0; 8D <u>Unit 3</u> Brake Hydraulics <ul style="list-style-type: none"> Research Brake Info. Describe Pedal Specs. Inspect for Leaks Bleed/Flush Brakes Calculate Hydraulic Forces Technical Standards: 5.0 Professional Standards: 3.0, 4F, 5.0, 8D <u>Unit 4</u> Disc Brakes <ul style="list-style-type: none"> R&R Brake Components Refinish Brake Components Inspect Brake Components 	Technical Standards: 6.2 Professional Standards: 1D, 3A <u>Unit 6</u> Electrical System <ul style="list-style-type: none"> Use Ohms Law Identify Circuit Types Technical Standards: 6.3 Professional Standards: 1D, 3A <u>Unit 7</u> Wiring Diagrams <ul style="list-style-type: none"> Use Wiring Diagrams Technical Standards: 6.0 Professional Standards: 1D, 3A <u>Unit 8</u> DMM <ul style="list-style-type: none"> Use DMM to Diag. Circuits Technical Standards: 6.0 Professional Standards: 1D, 3A <u>Unit 9</u> Test Light/Jumpers/Fuses <ul style="list-style-type: none"> Diag. Circuit w/Test Light Diag. Circuit w/Jumpers Diag. Fuses Technical Standards: 6.0 Professional Standards: 1D, 3A <u>Unit 10</u> Starting Systems <ul style="list-style-type: none"> Inspect Starting System Test Starting System Replace Starting System Comp. 	Technical Standards: 1.0 Professional Standards: 3A, 4F, 8D <u>Unit 12</u> Fastener Repair <ul style="list-style-type: none"> Repair Internal Threads Repair External Threads Technical Standards: 1.0 Professional Standards: 3A,4F, 8D <u>Unit 13</u> Valve Train <ul style="list-style-type: none"> Replace Gaskets/Seals Adjust valve Technical Standards: 1.0 Professional Standards: 3A, 4F, 8D <u>Unit 14</u> Cooling System <ul style="list-style-type: none"> Inspect Cooling Sys. Test Cooling Sys. Replace Cooling Sys. Comp. Technical Standards: 2.0 Professional Standards: 1D, 3A, 4F, 5F, 8D <u>Unit 15</u> Automatic Transmission <ul style="list-style-type: none"> Inspect A/T Sys. Test A/T Sys. Replace Cooling Sys. Comp. Replace Mounts 	Technical Standards: 3.0 Professional Standards: 3A, 4F, 8D <u>Unit 16</u> Manual Transmission/Differential <ul style="list-style-type: none"> Research Manual Information Inspect Manual Transmission Refill Manual Transmission Inspect Differential Refill Differential Technical Standards: 4.0 Professional Standards: 3A, 4F, 8D <u>Unit 17</u> Service Steering System <ul style="list-style-type: none"> Inspect Power Steering System Inspect Replace Struts Pre-Align. Inspect Explain TPMS sensor Replacement

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<ul style="list-style-type: none"> • Service Brake Components <p>Technical Standards: 5.0 Professional Standards: 3.0, 4F, 5.0, 8D</p> <p><u>Unit 5</u></p> <p>Drum Brakes</p> <ul style="list-style-type: none"> • R&R Brake Components • Refinish Brake Components • Inspect Brake Components • Service Brake Components 	<p>Technical Standards: 6.0 Professional Standards: 1D, 3A</p> <p><u>Unit 11</u></p> <p>Charging System</p> <ul style="list-style-type: none"> • Inspect Charging System • Test Charging System • Replace Charging System Comp. 		