

ADVANCE Automotive Technology 47.0600 5 & 6
Scope & Sequence: Year 3 – Advance Auto

Semester 1		Semester 2	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
<p>Technical Standards: 9.0 Professional Standards: 1D, 8.0</p> <p><u>Unit 1</u> Safety</p> <ul style="list-style-type: none"> • Shop Safety • Personal Safety <p>*SP/2 Completion</p> <p>Technical Standards: 9.0 Professional Standards: 1D, 8.0</p> <p><u>Unit 2</u> Prep Vehicle</p> <ul style="list-style-type: none"> • Interpret RO • Used 3C's on Repairs • Review Service History <p>Technical Standards: 9.0 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 3</u> Engine Diagnostics</p> <ul style="list-style-type: none"> • Research Service Info. • Test Engine • Retrieve DTCs <p>Technical Standards: 1.0 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 4</u> Engine System</p> <ul style="list-style-type: none"> • Verify Warning Indicators • Verify Eng. Timing • Retrieve DTCs 	<p>Technical Standards: 8.13-14 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 6</u> Fuel-Air-Exhaust</p> <ul style="list-style-type: none"> • Inspect F-A-E System • Check-Fill DEF <p>Technical Standards: 5.28-33 Professional Standards: 1D; 3A; 5A; 7.0; 8.0</p> <p><u>Unit 7</u> Brake Inspection</p> <ul style="list-style-type: none"> • Check Brake Warning System • Check Brake Booster • Identify Booster System • Check Brake Light System <p>Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 8</u> Brake Electronics</p> <ul style="list-style-type: none"> • Identify TCS/SCS Comp. • Describe Regen. Braking <p>Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 9</u> Electronics Review</p> <ul style="list-style-type: none"> • Circuit Types Review • Use DMM Review • Research TSBs 	<p>Technical Standards: 4.1-35 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 14</u> Suspension Service</p> <ul style="list-style-type: none"> • Inspect Suspension System • Explain Suspension Comp. • Replace Suspension Comp. • ID TPMS Sys. Types • Explain Active Suspension <p>*Technical Skills Assessment Industry Certification Testing</p>	<p>Technical Standards: 3.07-10 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 15</u> Manual Transmission</p> <ul style="list-style-type: none"> • Inspect Wheel Studs • Replace Wheel Studs • Inspect/Service Shafts • Inspect Locking Hubs <p>Technical Standards: 2.6-11 Professional Standards: 1D, 3A, 5A, 7.0, 8.0</p> <p><u>Unit 16</u> Automatic Transmission</p> <ul style="list-style-type: none"> • Service Shift Linkage • Service Range Switch • Replace Fluid & Filter • Explain CVT • Explain Hybrid D-Train

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Technical Standards: 7.0 Professional Standards: 1D, 3A, 5A, 7.0, 8.0 Unit 5 A/C System <ul style="list-style-type: none"> Inspect A/C System Identify A/C Components 	Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0 Unit 10 Electronics Misc. <ul style="list-style-type: none"> ID HV Safety ID Hybrid 12v Batt. Serv. ID Code Equip. Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0 Unit 11 Starting System <ul style="list-style-type: none"> Perform Starting Sys. Tests Inspect Starting Sys. Replace Starter Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0 Unit 12 Lighting System <ul style="list-style-type: none"> Inspect Lighting Sys. Aim Headlights ID HID Safety Technical Standards: 5.36-37 Professional Standards: 1D, 3A, 5A, 7.0, 8.0 Unit 13 Electric Accessories <ul style="list-style-type: none"> Disable/Enable SRS Explain Key FOB Verify Gauge Operation Verify Wiper Operation/ Replace 		