

**Diesel Engine Repair 5 & 6**  
**Scope & Sequence: Year 3**

Semester 1		Semester 2	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
<p>Technical Standards: 1.0 Professional Standards: 1.0, 2.0, 3.0, 4.F, 5.A, 8.0</p> <p><b>Unit 20</b></p> <p><b>Professionalism and Safety III</b></p> <ul style="list-style-type: none"> <li>Review Shop Guidelines</li> <li>Professional Behavior and Standards.</li> <li>Equipment Inspection</li> <li>Supervisory Skills</li> </ul> <p><i>*S/P2 Safety Completion</i> <i>*S/P2 Supervisor's Course</i> <i>*Shop Specific Assessment</i></p> <p>Technical Standards: 5.1-5.6 Professional Standards: 3.A, 4.F, 5.D, 8.0</p> <p><b>Unit 21</b></p> <p><b>Air Induction and Exhaust Systems</b></p> <ul style="list-style-type: none"> <li>Identify Exhaust Components</li> <li>Inspect Exhaust</li> <li>Describe Air Induction</li> <li>Inspect PCV</li> <li>Inspect Coolers</li> <li>Inspect Turbocharger</li> </ul> <p><b>*Begin dual enrollment Mastery tasks for AUT101</b></p>	<p>Technical Standards: 6.1-6.6 Professional Standards: 4.F, 5.A, 8.0</p> <p><b>Unit 22</b></p> <p><b>Fuel Systems</b></p> <ul style="list-style-type: none"> <li>Replace Fuel Filter</li> <li>Check Fuel Condition</li> <li>Air/Water Separators</li> <li>Safely Discharge High Pressure</li> </ul> <p>Technical Standards: 13.1-13.11, 17.1-17.4 Professional Standards: 3.A, 4.F, 5.D, 8.0</p> <p><b>Unit 23</b></p> <p><b>Advanced Electrical</b></p> <ul style="list-style-type: none"> <li>Computer control systems</li> <li>Use wiring diagrams</li> <li>Diagnose malfunctions</li> <li>Diagnostic trees</li> </ul> <p><b>*ASE Student Certification in Electrical</b></p> <p>Technical Standards: N/A Professional Standards: 1.A, 1.B, 1.C, 2.0, 4.A, 4.F, 6.0</p> <p><b>Unit 24</b></p> <p><b>Shop Management Tasks</b></p> <ul style="list-style-type: none"> <li>Write work estimates</li> <li>Document work orders</li> <li>Warranty documents</li> </ul>	<p>Technical Standards: 12.1-12.5 Professional Standards: 5.A, 5.D</p> <p><b>Unit 25</b></p> <p><b>Frame and 5<sup>th</sup> Wheel</b></p> <ul style="list-style-type: none"> <li>Inspect for damage</li> <li>Identify wear</li> <li>Lubrication</li> </ul> <p>Technical Standards: 16.1-16.5 Professional Standards: 5.A, 5.F</p> <p><b>Unit 26</b></p> <p><b>Student Choice and Mastery</b></p> <ul style="list-style-type: none"> <li>Hydraulics</li> <li>Advanced Pneumatics</li> <li>ASE Specialization test(s)</li> </ul> <p><b>*Technical Skills Assessment</b> <b>Industry Certification Testing</b></p>	<p>Technical Standards: 17.1-17.4 Professional Standards: 5.A, 5.F</p> <p><b>Unit 27</b></p> <p><b>Employment Skills</b></p> <ul style="list-style-type: none"> <li>Resume Check</li> <li>Interview Skills</li> </ul> <p><b>Unit 28</b></p> <p><b>Review/TSA/Certifications</b></p> <ul style="list-style-type: none"> <li>Review activities</li> <li>ASE re-attempts</li> <li>Summative/TSA</li> <li>Supports and feedback</li> </ul> <p><b>AUT101 Outcomes (Mastery)</b></p> <ul style="list-style-type: none"> <li>Perform lubrication and oil change.</li> <li>Perform vehicle inspection.</li> <li>Perform manual and automatic transmission oil change.</li> <li>Perform Tire rotation.</li> <li>Mount/Dismount tire.</li> </ul>