

## Small Gas Engines Scope and Sequence – BriefCASE

Day	Time	Discussion and Demonstration Items	APPs Participants Complete
Day 1 (In Person)	10:00 – 12:00	<ul style="list-style-type: none"> <li>• Welcome/Opening</li> <li>• Lesson 1.1 Safe Setting</li> <li>• Lesson 1.2 Equipment Safety</li> <li>• PowerPortal/OHV Repair Manual</li> <li>• Lesson 2.1 Engine Operation</li> </ul>	<ul style="list-style-type: none"> <li>• Access SGE Curriculum (MyCASE)</li> <li>• Activity 1.2.5 Machine Safety</li> <li>• Activity 1.2.6 Technical Navigation</li> <li>• Activity 2.1.1 Internal Combustion</li> </ul>
	12:00 – 12:45	Lunch and Host Logistics	
	12:45 – 5:00	<ul style="list-style-type: none"> <li>• Activity 2.1.2 Engine Systems</li> <li>• Digital multimeter use (continuity)</li> <li>• Lesson 2.2 Disassembly Required</li> <li>• Project 2.2.3 Fuel Efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Activity 2.1.3 Systems Test</li> <li>• Activity 2.1.4 Engine Energy</li> <li>• Activity 2.2.1 Sequential Order</li> <li>• Activity 2.2.2 Carburetor Function</li> </ul>
	Homework:	<ul style="list-style-type: none"> <li>• Clean up work area</li> <li>• Review Lesson 2.2 – 2.3 Teacher Notes</li> <li>• Review Ring Compressor video from <i>PowerPortal</i></li> </ul>	
Day 2 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> <li>• Lesson 2.3 Machine Assembly</li> <li>• Measuring bolts with dial calipers</li> <li>• Measuring parts with micrometers</li> </ul>	<ul style="list-style-type: none"> <li>• Activity 2.2.4 System Controls</li> <li>• Activity 2.2.5 Machine Specifications</li> <li>• Activity 2.2.6 Fundamental Components</li> <li>• Activity 2.3.3 Reject Sizes</li> </ul>
	12:00 – 1:00	Lunch	
	1:00 – 5:00		<ul style="list-style-type: none"> <li>• Activity 2.3.4 Bearing Lubrication</li> <li>• Activity 2.3.5 Torque and Sequence</li> <li>• Activity 2.3.6 Start Your Engines</li> </ul>
	Homework:	<ul style="list-style-type: none"> <li>• Finish engines/clean up work area</li> <li>• Review Lesson 3.1 Teacher Notes</li> </ul>	
Day 3 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> <li>• Lesson 3.1 Engine Diagnostics</li> <li>• Problem 3.1.4 Engine Services</li> <li>• <i>Completing an Order</i> PowerPoint</li> <li>• SGE SAE for All Foundational Checksheet</li> </ul>	<ul style="list-style-type: none"> <li>• Activity 3.1.1 Replacement Parts</li> <li>• Activity 3.1.2 Field Experience</li> <li>• Project 3.1.3 Communicating Services</li> <li>• Complete SGE BriefCASE Survey</li> <li>• Certification Celebration</li> </ul>