

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