

Small Engine Repair/Power Sports Criticality Survey - 2016

1. Personal Qualities and People Skills						
Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count	
Demonstrate a positive work ethic by coming to work every day on time, a willingness to take direction, and motivation to accomplish the task at hand.	0	4	7	2.64	11	
Demonstrate integrity by abiding by workplace policies and laws and demonstrating honesty and reliability.	0	2	9	2.82	11	
Demonstrate teamwork skills by contributing to the success of the team, assisting others, and requesting help when needed.	1	4	6	2.45	11	
Demonstrate positive self-representation skills by dressing appropriately and using language and manners suitable for the workplace.	1	4	6	2.45	11	
Demonstrate diversity awareness by working well with all customers and co-workers.	0	7	4	2.36	11	
Demonstrate conflict-resolution skills by negotiating diplomatic solutions to interpersonal and workplace issues.	1	5	5	2.36	11	
Demonstrate creativity and resourcefulness by contributing new ideas and working with initiative.	1	8	2	2.09	11	
<i>answered question</i>					11	
<i>skipped question</i>					0	
2. Professional Knowledge and Skills						
Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count	
Demonstrate effective speaking and listening skills by communicating effectively with customers and employees and following directions.	0	5	6	2.55	11	
Demonstrate effective reading and writing skills by reading and interpreting workplace documents and writing clearly.	0	8	3	2.27	11	
Demonstrate critical-thinking and problem-solving skills by analyzing and resolving problems that arise in completing assigned tasks.	0	4	7	2.64	11	
Demonstrate healthy behaviors and safety skills by following safety guidelines and managing personal health.	0	3	8	2.73	11	
Demonstrate understanding of workplace organizations, systems, and climates by identifying "big picture" issues and fulfilling the mission of the workplace.	1	8	2	2.09	11	

	Demonstrate lifelong-learning skills by continually acquiring new industry-related information and improving professional skills.	0	5	6	2.55	11
	Demonstrate job acquisition and advancement skills by preparing to apply for a job and seeking promotion.	1	8	2	2.09	11
	Demonstrate time, task, and resource management skills by organizing and implementing a productive plan of work.	0	6	5	2.45	11
	Demonstrate mathematical skills by using mathematical reasoning to accomplish tasks	3	8	0	1.73	11
	Demonstrate customer service skills by identifying and addressing the needs of all customers and providing helpful, courteous, and knowledgeable service.	1	5	5	2.36	11
	<i>answered question</i>					11
	<i>skipped question</i>					0
3. Technology Knowledge and Skills						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
	Demonstrate proficiency with job-specific technologies by selecting and safely using technological resources to accomplish work responsibilities in a productive manner.	0	5	6	2.55	11
	Demonstrate proficiency with information technology by using computers, file management techniques, and software/programs effectively.	0	6	5	2.45	11
	Demonstrate proper Internet use and security by using the Internet appropriately for work.	2	5	4	2.18	11
	Demonstrate proficiency with telecommunications by selecting and using appropriate devices, services, and applications.	3	6	2	1.91	11
	<i>answered question</i>					11
	<i>skipped question</i>					0
CONTENT STANDARD 1: BASIC SAFETY						
Performance Standard 1.1: Workplace Safety						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
1.1.1.	Describe general shop safety rules and procedures.	0	6	5	2.45	11
1.1.2.	Utilize safe procedures for handling of tools and equipment.	0	3	8	2.73	11
1.1.3.	Utilize proper ventilation procedures for working within the lab/shop area.	0	7	4	2.36	11
1.1.4.	Identify marked safety areas.	0	9	2	2.18	11

1.1.5.	Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other safety equipment.	1	5	5	2.36	11
1.1.6.	Identify the location and use of eye wash stations.	0	6	5	2.45	11
1.1.7.	Identify the location of the posted evacuation routes.	2	7	2	2.00	11
1.1.8.	Comply with the required use of safety glasses, ear protection, gloves and shoes during lab/shop activities.	0	5	6	2.55	11
1.1.9.	Identify and wear appropriate clothing for lab/shop activities.	0	7	4	2.36	11
1.1.10.	Secure hair and jewelry for lab/shop activities.	0	5	6	2.55	11
1.1.11.	Locate and interpret safety data sheets (SDS).	5	5	1	1.64	11
1.1.12.	Handle, store, and dispose of hazardous and flammable waste and materials.	0	7	4	2.36	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 2: TOOLS						
Performance Standard 2.1: Basic Tools						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
2.1.1.	Identify basic tools.	0	5	6	3	11
2.1.2.	Identify basic tool usage.	0	5	6	2.55	11
2.1.3.	Demonstrate common tools knowledge.	0	5	6	2.55	11
2.1.4.	Determine maintenance procedures.	0	10	1	2.09	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 3: FASTENERS						
Performance Standard 3.1: Proper Use of Fasteners						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
3.1.1.	Define fastener terms.	0	10	1	2.09	11
3.1.2.	Identify fasteners.	0	10	1	2.09	11
3.1.3.	Select correct fasteners.	0	7	4	2.36	11
3.1.4.	Rethread tapped holes.	2	6	3	2.09	11
3.1.5.	Rethread damaged fasteners.	3	5	3	2.00	11
3.1.6.	Remove seized fasteners.	3	5	3	2.00	11
3.1.7.	Demonstrate proper torque methods.	0	4	7	2.64	11
3.1.8.	Demonstrate common fastener knowledge.	0	8	3	2.27	11
3.1.9.	Select specific application of threaded and nonthreaded fasteners.	1	8	2	2.09	11
3.1.10.	Select seized nut and bolt removal methods.	2	6	3	2.09	11
3.1.11.	Demonstrate common fastener knowledge command.	1	7	3	2.18	11
<i>answered question</i>						11

	<i>skipped question</i>					0
CONTENT STANDARD 4: MEASUREMENT						
Performance Standard 4.1: Precision Measuring Instruments						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
4.1.1.	Define measuring terms.	0	8	3	2.27	11
4.1.2.	Identify measuring instruments.	0	7	4	2.36	11
4.1.3.	Determine measuring steps.	1	7	3	2.18	11
4.1.4.	Demonstrate the use of measuring instruments.	1	7	3	2.18	11
4.1.5.	Demonstrate precision measuring.	1	7	3	2.18	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 5: BASIC ELECTRICAL						
Performance Standard 5.1: Basic Electrical Theory and System						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
5.1.1.	Identify basic electrical schematic symbols.	3	4	4	2.09	11
5.1.2.	Identify parts of a basic electrical system.	3	3	5	2.18	11
5.1.3.	Understand basic electrical theory.	1	4	6	2.45	11
5.1.4.	Understand basic electrical circuits.	2	3	6	2.36	11
5.1.5.	Demonstrate proper use of a multimeter.	1	3	7	2.55	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 6: ENGINE DESIGN AND THEORY						
Performance Standard 6.1: Basic Engine Principles and Design						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.1.1.	Identify engine type and application.	1	7	3	2.18	11
6.1.2.	Identify type of operation.	2	8	1	1.91	11
6.1.3.	Explain theory of operation.	0	6	5	2.45	11
6.1.4.	Identify engine components and their function.	0	6	5	2.45	11
6.1.5.	Interpret various engine model codes.	2	9	0	1.82	11
6.1.6.	Understand the terms of work, horsepower, torque, displacement and compression.	2	9	0	1.82	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.2: Operation of a 2-stroke Engine						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.2.1.	Define 2-stroke engine terms.	2	4	5	2.27	11
6.2.2.	Define 2-stroke engine operations.	1	4	6	2.45	11
6.2.3.	Identify 2-stroke engine components.	0	8	3	2.27	11
6.2.4.	Demonstrate knowledge of 2-stroke engine operation.	0	5	6	2.55	11
6.2.5.	Diagnose, troubleshoot, and repair a 2-stroke engine.	0	4	7	2.64	11
<i>answered question</i>						11

		<i>skipped question</i>				0
Performance Standard 6.3: Operation of a 4-stroke Engine						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.3.1.	Define 4-stroke engine terms.	0	5	6	2.55	11
6.3.2.	Define 4-stroke engine operations.	0	4	7	2.64	11
6.3.3.	Identify 4-stroke engine components.	0	5	6	2.55	11
6.3.4.	Demonstrate knowledge of 4-stroke engine operation.	0	5	6	2.55	11
6.3.5.	Diagnose, troubleshoot, and repair a 4-stroke engine.	0	1	10	2.91	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.4: Overhaul of a 4-stroke Engine						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.4.1.	Diagnose various engine problems.	2	3	6	2.36	11
6.4.2.	Demonstrate engine overhaul knowledge and competence.	3	5	3	2.00	11
6.4.3.	Perform and evaluate failure analysis.	2	3	6	2.36	11
6.4.4.	Disassemble and evaluate a 4-stroke engine.	1	3	7	2.55	11
6.4.5.	Inspect internal components.	1	3	7	2.55	11
6.4.6.	Service, replace or repair damaged internal components.	1	4	6	2.45	11
6.4.7.	Reassemble a 4-stroke engine.	1	3	7	2.55	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.5: Overhaul of a 2-stroke Engine						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.5.1.	Diagnose various engine problems.	0	4	7	2.64	11
6.5.2.	Demonstrate engine overhaul knowledge and competence.	1	7	3	2.18	11
6.5.3.	Perform and evaluate failure analysis.	2	2	7	2.45	11
6.5.4.	Disassemble and evaluate a 2-stroke engine.	2	5	4	2.18	11
6.5.5.	Inspect internal components.	1	5	5	2.36	11
6.5.6.	Service, replace or repair damaged internal components.	1	6	4	2.27	11
6.5.7.	Reassemble a 2-stroke engine.	1	7	3	2.18	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.6: Cooling and Lubrication Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.6.1.	Identify type of cooling and lubrication systems.	0	8	3	2.27	11

6.6.2.	Identify the components and function of a cooling system.	0	8	3	2.27	11
6.6.3.	Identify the components and function of a lubrication system.	0	8	3	2.27	11
6.6.4.	Identify proper types of oils and their applications.	0	9	2	2.18	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.7: Fuel Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.7.1.	Define types of fuel systems.	1	4	6	2.45	11
6.7.2.	Define fuel system theory.	2	4	5	2.27	11
6.7.3.	Identify fuel system components and their functions.	0	6	5	2.45	11
6.7.4.	Identify fuel system supply functions.	0	7	4	2.36	11
6.7.5.	Service fuel systems components.	0	4	7	2.64	11
6.7.6.	Diagnose, troubleshoot and repair fuel system malfunctions.	1	3	7	2.55	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.8: Governor Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.8.1.	Identify different types of governor systems and their components.	2	7	2	2.00	11
6.8.2.	Identify governor theory, operation, and adjustments.	2	4	5	2.27	11
6.8.3.	Diagnose, troubleshoot and repair governor malfunctions.	2	3	6	2.36	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.9: Ignition Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.9.1.	Identify basic types of ignition systems and theory of operation.	0	7	4	2.36	11
6.9.2.	Identify components and functions of a basic ignition system.	0	5	6	2.55	11
6.9.3.	Diagnose, troubleshoot, and repair ignition system malfunctions.	0	5	6	2.55	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.10: Charging Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.10.1.	Identify basic types of charging systems and theory of operation.	0	7	4	2.36	11

6.10.2.	Identify components and functions of a basic charging system.	0	6	5	2.45	11
6.10.3.	Diagnose, troubleshoot, and repair charging system malfunctions.	1	5	5	2.36	11
<i>answered question</i>						11
<i>skipped question</i>						0
Performance Standard 6.11: Starting Systems						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
6.11.1.	Identify basic types of starting systems and theory of operation.	0	7	4	2.36	11
6.11.2.	Identify components and functions of a basic starting system.	0	7	4	2.36	11
6.11.3.	Diagnose, troubleshoot, and repair starting system malfunctions.	1	4	6	2.45	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 7: MAINTENANCE						
Performance Standard 7.1: Basic Maintenance						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
7.1.1.	Describe a periodic maintenance program.	2	4	5	2.27	11
7.1.2.	Research owner's manuals, service schedules, and manufacturer's data to perform proper periodic maintenance.	0	3	7	2.70	10
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 8: PARTS AND SERVICE MANAGEMENT						
Performance Standard 8.1: Parts and Service Operation						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
8.1.1.	Understand the concept of inventory control.	6	5	0	1.45	11
8.1.2.	Identify how to look up parts.	1	4	6	2.45	11
8.1.3.	Ability to look up flat rate.	4	5	2	1.82	11
8.1.4.	Complete a customer service order.	4	4	3	1.91	11
8.1.5.	Explain why parts management and inventory control is needed.	3	6	2	1.91	11
<i>answered question</i>						11
<i>skipped question</i>						0
CONTENT STANDARD 9: CAREER EXPLORATION						
Performance Standard 9.1: Career Opportunities						
	Answer Options	Nice to Know	Need to Know	Critical to Know	Rating Average	Response Count
9.1.1.	List and describe the types of employment opportunities in small engine/power sports repair.	3	6	2	1.91	11
<i>answered question</i>						11
<i>skipped question</i>						0