

CHAPTER 1

Safety in the Small Gas Engine Shop

Name	D-1-	C1	
Name	Date	Class	

Learning Objectives

After studying this chapter, you will be able to:

- Explain why a clean, well-organized shop is extremely important.
- List several dangers associated with working in a small engine shop.
- Explain the importance of maintaining and using tools properly.
- Describe methods for minimizing the risks involved in working with small engines.
- Explain the function of OSHA.

Instructions: A	lfter	studuing	the c	havter	. com	olete t	he t	following	auestions a	and	problem	S

1.	shop could lead to serious or	1
2.	Why is it important to study the evacuation routes and be are working in the shop?	e aware of your location whenever you
3.	Gasoline gives off vapors that can if exposed to sparks or flames.	3
4.	Name three practices that should be followed to minimize fire	re hazards in the small gas engine shop.
5.	Never pour gasoline into the tank of a(n) engine.	5
6.	Tools that have been used should always be picked up and placed neatly in a(n) or on a(n)	6
7.	The highly flammable gas given off by batteries during	7

charging and discharging is _

3.	Why should gasoline <i>never</i> be used as a cleaning solvent?
9.	When working with solvents, always wear rubber 9and safety
Э.	When working with small gas engines, should 10. not be worn. A. loose-fitting clothing B. jewelry C. neckties D. All of the above.
1.	How can long hair be worn safely when working around engines, implements, and moving machinery?
2.	Identify the types of eye and face protection shown 12. A. B.
	C.
3.	Two types of ear/hearing protection that can be worn are and
4.	List four common sources of excessive noise.
5.	To prevent foot and toe injury, should be worn. 15
5.	Carbon monoxide (CO) is a gas given off by running gasoline engines. Breathing small amounts of carbon monoxide will cause and
7.	When running an engine in the shop, what precautions should be taken to avoid inhalation o carbon monoxide fumes?

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18.	For protection against the inhalation of dust and toxic fumes in the shop, a(n) should be worn by the technician.	18
19.	To prevent injury, it is best to wrenches toward your body.	19
20.	When using hammers, handles must be in good condition and hammer heads must be so that they do not come off.	20.
21.	Power tools should have all and in place.	21.
22.	What is the purpose of a "dead man switch" on power t	tools?
23.	Before making any adjustments to a power tool or machin	ne, what should you do?
24.	Compressed air is very useful in the shop, but it can also be three safety rules to follow when using compressed air	
25.	When lifting heavy objects, you should always lift with your A. legs	25
	B. back C. arms D. All of the above.	
26.	is the most common cause of shop fires.	26
27.	Before using electrical equipment, check wires for or	27
28.	All electrical equipment should be properly grounded or double	28.
29.	Why should circuit breaker switches be labeled?	

30.	Why should you <i>never</i> operate engines at speeds exceeding those recommended by the manufacturer?
31.	When an engine is running, all and should 31 be in place.
32.	Engine ignition systems produce voltages as high as 32
33.	In addition to wearing ear/hearing protection, make sure engines are always operated with the installed.
34.	Explain why it is important to locate the eyewash station(s) in your work area and know how to use them before you need them.
35.	All fire extinguishers should be inspected 35. A. weekly B. yearly C. monthly D. bimonthly
36.	If there is a gasoline or oil fire in the shop, a Class 36 fire extinguisher should be used to put it out.
37.	Where should the first aid kit be located?
38.	All businesses and industries are required to follow safety regulations established by a governmental organization called
Res	earch and write complete answers to the following questions.
39.	Explain why safety is so important in the outdoor power equipment industry.
40.	Explain the benefits for a technician who works in a safe, clean working environment.