

Hazardous Materials I and II

Short Answer Quiz Participant Guide

Answer the following questions.

1. List at least five (5) requirements of the OSHA Hazard Communications Standard.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
2. List five (5) physical forms of chemicals.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
3. What is “the relative capacity of a chemical to combine chemically or react with another substance?” _____
4. This warning symbol warns us that the chemical is a _____.



5. What type of chemical produces a toxic effect, illness or death, when ingested, inhaled or absorbed through the skin?
6. What are the possible health effects on humans caused by the chemical that is associated with this warning symbol?



7. Match the chemical characteristics to its physical hazard:

Answer (<i>Write the letter of the correct physical hazard below</i>)	Chemical Characteristic	Physical Hazard
	Combustible	Can easily be set on fire and once set, continues to fuel the fire. A liquid, as well as its vapor, can be flammable.
	Explosive	Reacts with oxygen. This reaction aids in maintaining a fire once started.
	Oxidizer	Can be spontaneously ignited in air.
	Pyrophoric	Any liquid or solid that will burn or any liquid that burns when heated to 100° F or higher.
	Flammable	Relative capacity of a chemical to combine chemically or react with another substance.
	Peroxide	Explodes if heated or subjected to an electric spark. An explosive can release dangerous gases and continue to feed a fire
	Reactivity	Unstable, releases oxygen when heated, and is a powerful oxidizing agent.

8. What is a biohazard?

9. Discuss the difference between a corrosive and an irritant.

10. Pregnant women should not work in a lab that contains what type types of chemicals due to the chemicals' potential to harm the embryo or fetus?

11. What are the three routes of chemical exposure?

12. Cite an example for each of the following types of exposure.

a. Acute exposure: _____

b. Chronic exposure: _____

13. Define Toxicity:

14. Why can two people react differently to the same exposure of the same chemical?

15. What is the threshold limit value?

16. What is the purpose of PPE?

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