
Hazardous Materials I and II

Knowledge Probe

Instructor Guide

Note to Instructor

Hazardous Materials I and II Knowledge Probe is an assessment of the basic information covered in the Hazardous Materials Learning Module. This assessment can be used as a pre-test to determine what the participants already know relative to hazardous materials. It could also be used as a post-test to determine the knowledge learned.

Below is the *Hazardous Material Learning Module*:

- **Hazardous Materials I and II Knowledge Probe (pre-test / post-test)**
- Hazardous Materials I
- Hazardous Materials II
- Hazardous Materials I and II Activity
- Hazardous Materials I and II Final Assessment

There are 16 questions in this assessment.

Introduction

The purpose of this Knowledge Probe (KP) is to assess your current knowledge of Hazardous Materials: the terminology, characteristics and effects of chemicals.

All of this information and more is covered in SCME's Hazardous Materials I and II.

Below are the probe questions with answers. Answer each to the best of your knowledge.

1. Which of the following documents provides the federal standards that describe an employer's responsibility for informing employees about hazardous materials in the workplace?
 - a. Safety Data Sheets
 - b. NFPA Standards
 - c. **OSHA Hazardous Communications Standards**
 - d. ANSI Hazardous Communications Standards

2. Liquids, gases, fumes, dust, mists, vapors, fibers – these are all considered _____.
(Choose the answer that BEST fits ALL of the items listed)
 - a. by-products
 - b. **chemical sources**
 - c. health hazards
 - d. physical hazards

3. Which of the following chemical characteristics could affect the liver?
 - a. **Hepatotoxin**
 - b. Nephrotoxin
 - c. Neurotoxin
 - d. Teratogen

4. A respiratory problem due to a **sudden** inhalation of chlorine gas is referred to as a(n) _____ exposure.

Answer: acute

5. This symbol warns us that the chemical is a(n) _____.

Answer: Oxidizer



6. What type of chemical causes a reversible inflammatory effect on living tissue? _____

Answer: Irritant

7. A chemical's _____ depends on the chemical's concentration and duration of exposure.

Answer: toxicity

8. Which of the following statements BEST describes a combustible hazard?

- a. Liquid with a flashpoint above 100 F (37.8 C)
- b. Substance that explodes if heated or subjected to an electric spark
- c. Substance that can easily be set on fire
- d. Substance that can be spontaneously ignited in air

9. Which of the following chemicals can cause a serious health hazard when absorbed into the body **through** the skin?

- a. Flammable
- b. Poison
- c. Biohazard
- d. Oxidizer

10. This symbol warns us that the chemical is a(n) _____.

Answer: Biohazard



Support for this work was provided by the National Science Foundation's Advanced Technological Education (ATE) Program.