

Non-Credit Course Outline: Chemical Hazard Communication

Time: 2 hours

For: City of Cleveland, Healthy Homes Initiative

Created by: Cuyahoga Community College

Chemical Hazard Communication

1. What are hazardous chemicals?
2. Basic toxicology of Poisons
 - a. Risk vs hazard
 - b. Dose
 - c. Toxicity
 - d. Physical form
 - e. Pathways into the body and PPE
 - f. Target organ effects
3. Flammables
 - a. Fire triangle
 - b. Vapor density
4. Common household and commercial chemicals
 - a. Corrosives: pH, acids, bases
 - b. Solvents: flammables
 - c. Oxygen
 - d. Mercury
5. Labels
 - a. NFPA
 - b. HMIS
 - c. DOT
 - d. GHS pictograms and labels
6. Protecting Yourself

Objectives

At the end of the session on Chemical Hazard Communication, the student will be able to:

1. Explain how dose, toxicity, physical form and pathways into the body determine the effects of exposure.
2. Understand the fire triangle and vapor density.
3. Recognize the hazards depicted on HMIS, GHS, NFPA and DOT labels.
4. Recognize hazards of common household and commercial chemicals.
5. Understand basic actions to protect from chemical hazards.

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