

## Hazard Communication Syllabus

**Time:** 8 hours

**Maximum Class Size:** 20

**Prerequisites:** None

**Course Description:** This course is designed to empower the participant with the skills and knowledge to make their employment in construction safer and healthier. It will instruct the participant in how to protect themselves from exposure to hazardous chemicals. This course provides the information so that the participant can understand the dangers of hazardous chemicals on the jobsite. Participants will learn to read SDS labels, recognize hazards and the steps to take in order to prevent exposure to those hazards.

### Goals/Objectives/Student Learning Outcomes:

- Describe the basic employer requirements under the Hazard Communication Standard.
- Describe five items that must be in an employer's written Hazard Communication program.
- Describe the three points of Hazard Communication information an employer's training program must cover.
- Describe the minimum information the employer must instruct his/her employees on the Hazard Communication Standard for information and training.
- Identify the required number of information sections that all SDS sheets must have and describe the general content of each.
- Describe the federal organizations that establish the following. exposure limits:
  - Threshold Limit Value (TLV)
  - Permissible Exposure Limit (PEL)
  - Recommended Exposure Limit (REL)
- Define the following terms:
  - Time Weighted Average (TWA)
  - Immediately Dangerous to Life and Health (IDLH)
- Describe three types of chemical hazards.
- List eight types of chemicals that are considered physical hazards.
- Describe the different classifications of flammable liquids.
- Define the term "acute" and "chronic" health effects and describe an example of each.
- Describe why some chemicals are considered reactive or corrosive.
- Define the term "toxic".
- Describe four control measures that may reduce or eliminate health hazards in the workplace.
- Locate and record information from an SDS.
- Describe the information that must be given on a typical chemical label according to the OSHA Communication Standard (HCS).

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- List the three basic types of labeling system.
- Demonstrate how to read a label during a classroom exercise.
- List nine types of chemicals that are considered physical hazards.
- List seven common classes of hazardous chemicals/substances used in construction, and describe the following information for each:
  - Adverse health effects
  - Routes of entry and target organs affected
  - Method/s of detection and what PPE is required to prevent exposure.

### Standards Addressed

OSHA Hazard Communication Standard: 29 CFR 1910.1200

### Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

### Textbooks/Readings/Materials

- LIUNA: *Hazard Communication IG*
- LIUNA: *Hazard Communication Program PG*
- Hazard Communication Student Handout Packet
- LIUNA: *Hazard Communication PowerPoint*

### Tools/Equipment/Other Materials

- Computer
- LCD Projector
- Flipchart/markers
- Whiteboard/expo markers
- Highlighters

### Personal Protective Equipment

- 20 pairs of gloves
- 20 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 20 hard hats

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### Course Requirements

To receive credit for the course, participants must:

- Be present for full eight hours
- Participate in all classroom exercises
- Pass a written exam

### Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

### Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on activities and exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

### Safety

Failure to maintain and use PPE may result in dismissal from the course.