

Integrated Lesson Plan

Instructor: James Wethington

Program: Laborers Apprenticeship Program

Unit: Safety Orientation Segment 2

Lesson Title: Hazard Communication

Terminal Objective: Upon completion of this unit, the student will be able to list the components that are required to be in a written hazard communication program. Identify sections of a material data sheet, and relate that information to work tasks that are performed on a typical construction site, in order to protect themselves from hazards in the work area.

Enabling Objectives:

1. The student will list the components required to be in a written hazard communication program with 85% accuracy in a written paragraph.
2. The student will identify sections of a material safety data sheet and generate correct responses regarding safety decisions, by correctly answering assignment sheet questions in section 2, with 85% accuracy.
3. The student will use the glossary in the Laborers-AGC Hazard Communication Worker Manual to define terms associated with a written hazard communication program by correctly answering the assignment sheet questions to an 85% accuracy, in sections 3 and 4.

Related PA Academic Standards:

Reading, Writing, Speaking and Listening

#1.1.11E Establish a reading vocabulary by identifying and correctly using new words acquired through the study of their relationships to other words.

#1.1.11F Understand the meaning of and apply key vocabulary across the various subject areas.

#1.5.11A Write with sharp distinct focus

#1.5.11C Write with controlled and/or subtle organization.

#1.6.11E Participate in large and small group discussions and presentations.

#1.8.11C Organize, summarize and present the main ideas from research.

Mathematics

Introduction: (Time: 2-3 minutes)

1. Relate the hazard communication regulations to the Occupational Safety and Health Administration (OSHA) Part 1926 standards for work to be done in the construction industry.
2. Motivation—Discuss certification requirements from OSHA regarding proof of training in the area of hazard communication.
3. Objectives—State objectives from above.
4. Methods to accomplish—Read information sheets, observe demonstration and complete assignments.
5. Evaluation—Grade Sheet criteria will be used to grade the assignments; Unit test score must be 85% or better.
6. Question—What is the dictionary meaning of the word “hazard”?

Body/Main Content: (Time: 4 hours)

1. Terms and definitions

Integrated Lesson Plan

- A. Go over terms and definitions
2. Section 1 objectives
 - A. lecture
 - 1.introduction
 - 2.hazard communication standard
 - 3.written hazard communication program
 - 4.information and training
 - 5.assignment sheet
3. Material Safety Data Sheets
 - A. discussion
 - B. Trainee objectives
 - C. Introduction
 - D. M.S.D.S. sections 1 through 8
 - E. M.S.D.S additional information
 - F. Small group exercises
 - G. Assignment sheet
4. Chemical Labels And Lists
 - A. Trainee objectives
 - B. Special labels
 - C. National Fire Protection Association
 - D. Department Of Transportation
 - E. Chemical inventory lists
 - F. Assignment sheet
5. Chemicals Used In Construction
 - A. Trainee objectives
 - B. Acids, Bases, Alkalis
 - C. Adhesives
 - D. Cleaners
 - E. Concrete
 - F. Fuels
 - G. Solvents
 - H. Wood
 - I. Typical Construction Hazardous Materials
 - J. Assignment sheet

Summary: (Time 2-5 minutes)

1. Review
 - A. Written hazard communication program components
 - B. Material safety data sheet sections
 - C. Hazard communication regulations and health effects of chemicals.
2. Questions
 - A. Answer assignment sheet questions

Materials Needed:

Laborers-AGC videos

1."Understanding Material Safety Data Sheets"

2."Understanding Labels"

References: Laborers-AGC Education And Training Fund

"Hazard Communication Worker Manual"