

SESSION 1 (.5 hours)
GRAIN HANDLING SAFETY – AN INTRODUCTION

Lesson Plan: Student Guide
Grain Handling Safety – An Introduction

Overview

Safety at grain handling facilities has become a hot topic in the last few years. A rise in fatalities, specifically among young workers, has led to an increased emphasis on the requirements of OSHA's Grain Handling Facilities safety standard – 29 CFR 1910.272. This lesson will provide a general introduction to the grain handling industry, the potential hazards at grain handling facilities, along with injury and illness statistics for the industry. This lesson will also address OSHA's response to the recent increase in fatalities at grain handling facilities.

Lesson Objectives

Upon completion of this topic students should be able to:

1. Understand what constitutes a grain handling facility and what industries are commonly involved in grain handling operations.
2. Identify the common hazard potentials present in grain handling operations.
3. Be familiar with the most recent injury and illness statistics from grain handling industries.
4. Understand OSHA's role in regulating and responding to hazards in grain handling operations.
5. Be familiar with the objectives of the preceding lessons (2-5) and available resources for further study on grain handling safety.

Training Resources

1. PowerPoint Presentation with instructor notes (Color)

Activities and Classroom Procedures

1. Review course objectives
2. PowerPoint slides with class discussion

Lesson Roadmap

1. Overview of Grain Handling Industry
 - a. Slides to be used : 1-2
 - b. Objectives Covered : 1

- c. Exercise/Demos : None
 - d. Training Aids : None
- 2. Hazards in Grain Handling
 - a. Slides to be used : 3-7
 - b. Objectives Covered : 2
 - c. Exercise/Demos : None
 - d. Training Aids : None
- 3. Injury and Fatality Data for the Grain Handling Industry
 - a. Slides to be used : 8
 - b. Objectives Covered : 3
 - c. Exercise/Demos : None
 - d. Training Aids : None
- 4. OSHA and Grain Handling
 - a. Slides to be used : 9-11
 - b. Objectives Covered : 4
 - c. Exercise/Demos : None
 - d. Training Aids : None
- 5. Course Overview and Resources
 - a. Slides to be used : 12-13
 - b. Objectives Covered : 5
 - c. Exercise/Demos: None.
 - d. Training Aids: None.

Evaluation and Assessment

- a. Interactive conversations

Resources/Web Sites

- Grain Handling Safety – OSHA Web Page - <http://www.osha.gov/SLTC/grainhandling/index.html>
- Grain Handling Health – NIOSH Web Page - <http://www.cdc.gov/niosh/topics/agriculture/#grain>
- Purdue University Grain Lab – Web Page - <http://extension.entm.purdue.edu/grainlab/>