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PERMIT-REQUIRED CONFINED SPACES: MECHANICAL & ENGULFMENT HAZARDS

**Leader's Guide, Fact Sheet
& Quiz**

Item Number: 5256
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This easy-to-use Leader's Guide is provided to assist in conducting a successful presentation.

PREPARING FOR THE MEETING

Here are a few suggestions for using this program:

- a) Review the contents of the Fact Sheet that immediately follows this page to familiarize yourself with the program topic and the training points discussed in the program. The Fact Sheet also includes a list of Program Objectives that details the information that participants should learn from watching the program.
- b) If required by your organization, make an attendance record to be signed by each participant to document the training to be conducted.
- c) Prepare the area and equipment to be used for the training. Make sure the watching environment is comfortable and free from outside distractions. Also, ensure that participants can see and hear the TV screen or computer monitor without obstructions.
- d) Make copies of the Review Quiz included at the end of this Leader's Guide to be completed by participants at the conclusion of the presentation. Be aware that the page containing the answers to the quiz comes before the quiz itself, which is on the final page.

CONDUCTING THE PRESENTATION

- a) Begin the meeting by welcoming the participants. Introduce yourself and give each person an opportunity to become acquainted if there are new people joining the training session.
- b) Introduce the program by its title and explain to participants what they are expected to learn as stated in the Program Objectives of the Fact Sheet.
- c) Play the program without interruption. Upon completion, lead discussions about your organization's specific policies regarding the subject matter. Make sure to note any unique hazards associated with the program's topic that participants may encounter while performing their job duties at your facility.
- d) Hand out copies of the review quiz to all of the participants and make sure each one completes it before concluding the training session.

5256 PERMIT-REQUIRED CONFINED SPACES: MECHANICAL & ENGULFMENT HAZARDS FACT SHEET

LENGTH: 1:35 MINUTES

PROGRAM SYNOPSIS:

Atmospheric testing and monitoring are used to detect the presence of atmospheric hazards prior to and during confined space entry operations. Testing the atmosphere of a confined space must be done with a calibrated, direct-reading instrument. Any employee who enters the space, or that employee's authorized representative, shall be provided an opportunity to observe the pre-entry atmospheric testing. If a hazardous atmosphere is detected at any time during the entry process, all employees must exit the space immediately.

PROGRAM OBJECTIVES:

After watching the program, the participant should be able to explain the following:

- What mechanical and engulfment hazards are;
- Procedures to help prevent these hazards;
- The duty of the Entry Supervisor when dealing with such hazards.

INSTRUCTIONAL CONTENT:

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- When a confined space contains the potential for mechanical or engulfment hazards, these hazards must be listed on the entry permit.
- Some examples of mechanical hazards that may exist in a confined space include rotating shafts, screw conveyors and mixing or cutting blades.
- Engulfment hazards exist when workers can fall into certain materials that can trap or engulf them. A common example of this occurs in grain silos or corn bins.
- Employees can also be engulfed, drowned or crushed when materials are inadvertently released into a confined space while work is in progress.
- There are a variety of procedures that may be used to control these types of hazards and the specific procedures relevant to the confined space to be entered must be listed on the entry permit.
- For example, line-breaking and blanking may be required to isolate a space and prevent the inflow of materials; lockout/tagout procedures may be required to properly de-energize any type of moving equipment or machinery.
- The entry permit will specify the required hazard control procedures and it is the duty of the Entry Supervisor to certify that all hazards have been eliminated or controlled prior to entry.

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ANSWERS TO THE REVIEW QUIZ

1. b

2. c

3. d

4. b

PERMIT-REQUIRED CONFINED SPACES: MECHANICAL & ENGULFMENT HAZARDS
REVIEW QUIZ

Name _____ Date _____

The following questions are provided to determine how well you understand the information presented in this program.

1. When a confined space contains the potential for mechanical or engulfment hazards, these hazards do not have to be listed on the entry permit if they are discussed during a pre-job safety briefing.
 - a. True
 - b. False

2. Rotating shafts, screw conveyors and cutting blades are examples of _____.
 - a. Engulfment hazards
 - b. Atmospheric hazards
 - c. Mechanical hazards

3. A _____ is an example of a confined space where an engulfment hazard may exist.
 - a. Grain silo
 - b. Corn bin
 - c. Space into which materials could be released
 - d. All of the above

4. It is the duty of the _____ to certify that all hazards have been eliminated or controlled prior to entry.
 - a. Entrant
 - b. Entry supervisor
 - c. Attendant
 - d. Rescue squad