

Safety Talk: Trenching and Excavation Safety



| PRESENTED BY: | |
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| MEETING START TIME: | |
| DATE OF MEETING: | |
| MEETING END TIME: | |

KEEP THE CONVERSATION GOING WITH A SAFETY TALK QUESTION:

How can we improve our trench and excavation safety here?

Background/Importance

Trenching and excavation are essential tasks in construction and utility work, but they come with serious risks. The most significant hazard is the potential collapse of trench walls, which can lead to severe injury or death. Proper planning and adherence to safety protocols are critical to protecting workers and ensuring a safe job site.

Hazards and Common Issues

- Cave-ins: The leading cause of fatalities in trenching work.
- **Underground Utilities:** Striking gas, electric or water lines can cause explosions, electrocution or flooding.
- **Hazardous Atmospheres:** Trenches deeper than four feet may contain toxic gases or lack oxygen.
- **Falling Loads:** Materials or equipment falling into the trench can injure workers.
- **Equipment Proximity:** Heavy machinery operating too close to trench edges can cause collapses.
- Spoil Piles: Improper placement can increase the risk of cave-ins.

Safety Controls

Preplanning

- Call 811: Always contact utility marking services two to three days before digging.
- Mark Utilities: Clearly identify all underground lines.
- **Soil Assessment:** Classify soil type to determine appropriate protective systems.
- **Job Layout:** Plan safe locations for spoil piles and equipment routes.
- **Emergency Plan:** Develop and communicate a trench emergency response plan.

Protective Systems

- **Shoring:** Use supports like hydraulic jacks or planking to prevent wall collapse.
- Shielding: Use trench boxes to protect workers from cave-ins.
- **Sloping/Benching:** Cut trench walls at an angle or in steps to reduce collapse risk.

General Safety Measures

- Keep Equipment Away: Maintain a safe distance from trench edges.
- Soil Management: Keep excavated materials at least 2 feet from the trench.
- Atmospheric Testing: Check for hazardous gases in trenches over four feet deep.
- PPE: Ensure all workers wear appropriate personal protective equipment.



| Worker Comments / Feedback: | |
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| To be signed by all employees, contract workers, client commencing work. | s and others who participated in the safety talk prior to |
| Signatures: | |
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