

VOSHA Fall Protection

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Falls

- □ The leading cause of Death in the Construction Industry
- □ Falls account for approximately 33% of Fatalities
- □ Common Fall Hazards include, platforms, roofs, holes (floors and walls), Excavations, open sided floors, stairways and shafts.
- □ Falls can happen





General Concepts

- ☐ This presentation will focus on the general concepts to include
 - Hazard Recognition
 - Proper safe actions and procedures
 - Using tools according to the manufacturers specifications.



How do we abate hazards?

- Hierarchy of Controls
- 1. Engineering
- Administrative (Work Practice)
- 3. Personal Protective Equipment (PPE)
- These three steps should always be in mind when evaluating hazards

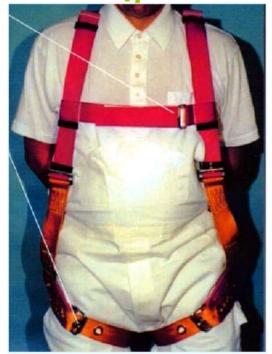


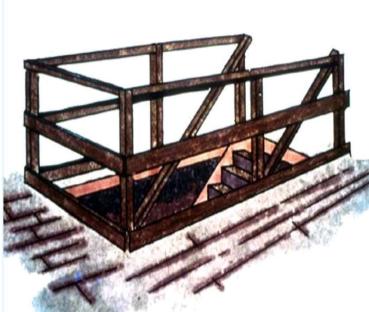
Competent Person in Construction

- A person who;
 - Knows the right standard,
 - Can identify hazards in the operation, and
 - Is designated by the employer, and has the authority to take appropriate actions.
- "Competent Person" is found in many standards.
- Some standards set specific requirements for the "competent person."
- Fall Video



Physical Fall Protection Options







Personal Fall Arrest System (PFAS)

Guardrails

Safety Net



Fall Protection Planning





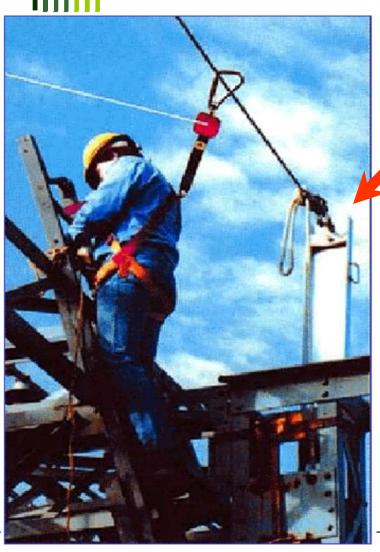
Personal Fall Arrest Systems



- You must be trained how to properly use PFAS.
- PFAS = anchorage, lifeline and body harness.



Safety Line Anchorages



Must be independent of any platform anchorage and capable of supporting at least 5,000 lbs. per worker

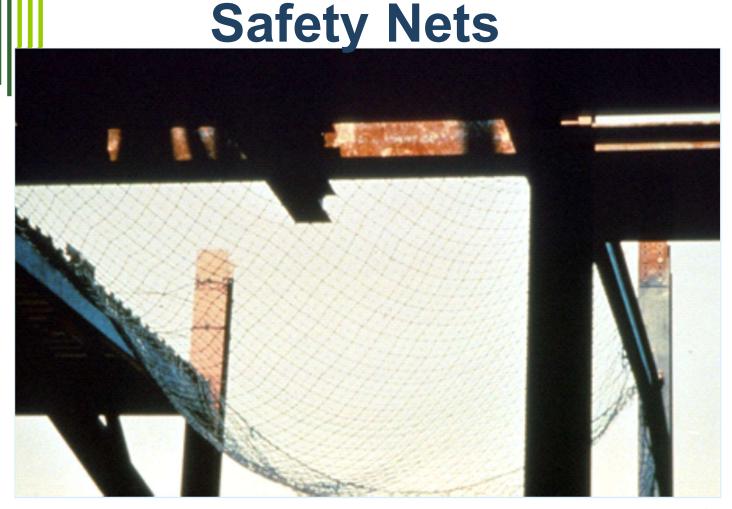


Guardrails



Top Rail
Mid- Rail
Toeboard

- □ Top rails between 39 and 45 inches tall
- □ Toeboards at least 3 1/2 inches high



Place as close as possible, but no more than 30 feet below where employees work



When Fall Protection is Needed

- Walkways & ramps
- □ Open sides & edges
- □ Holes
- Concrete forms & rebar
- Excavations

- □ Roofs
- Wall openings
- Bricklaying
- ResidentialConstruction



Walkways and Ramps



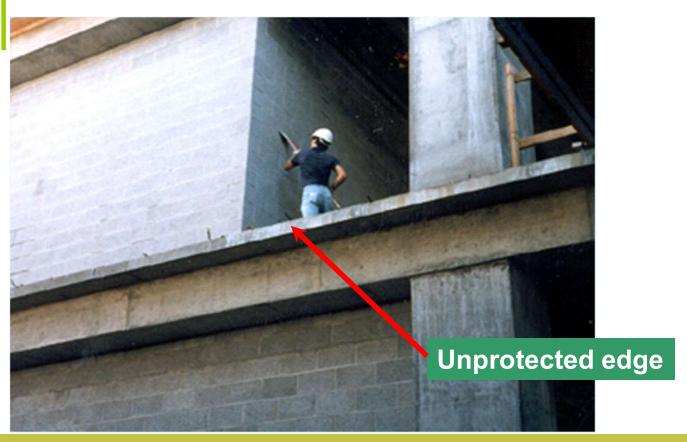


Fall Protection - Residential Construction



In residential construction, you must be protected if you can fall more than 6 feet

Unprotected Sides & Edges



Unprotected sides and edges must have guardrails or equivalent



Sides & Edges - Improper Guarding



This 1/4" nylon rope alone is not a proper way to guard this open floor





- Holes more than 6 feet high must be protected
- This opening could be made safe by using a guardrail, or strong cover



Floor Holes



- Cover completely and securely
- If no cover, can guard with a guardrail



Concrete Forms and Rebar



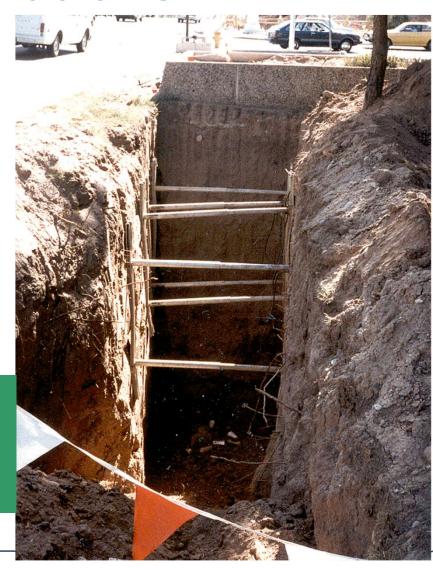
- Use PFAS when working on formwork or rebar
- Cover or cap protruding rebar



Excavations

Guard excavations more than 6 feet deep when they are not readily seen because of plant growth or other visual barriers

In addition to needing guarding, this excavation is not properly shored





Roofs



If you work on roofs and can fall more than 6 feet, you must be protected



Wall Openings



If you work near wall openings 6 feet or more above lower levels you must be protected from falling



Training

Employers must provide and document fall

protection training

The training is to teach you:

- How to recognize hazards
- How to minimize hazards

The training must cover:

- Fall hazards
- Fall protection systems
- Use of fall protection devices





Summary

- If you can fall more than 6 feet, you must be protected
- Competent person must evaluate and supervise method of protection
- □ Use fall protection on:
 - walkways & ramps, open sides & edges, holes, concrete forms & rebar, excavations, roofs, wall openings, bricklaying, residential construction
- Protective measures include guardrails, covers, safety nets, and Personal Fall Arrest Systems



Your Decision to Work Safely Matters

Questions?