Know Your Limits: Fall Protection Strategies and Compliance

Presented by:





— Webinar Focus & Questions



- The focus of this webinar is Know Your Limits: Fall Protection Strategies and Compliance.
- Attendees must be prepared to review Human Resource and Employment Practices Liability questions with their independent insurance agent and/or company's legal counsel.

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- All questions can be sent through the Q&A.
- Our panelists will respond to questions when possible, during the webinar.
- Additional resources, included slide deck will be provided at the end of the session.







LEARNING OBJECTIVES

Fall Protection Standards and Regulations

Identify relevant OSHA and ANSI standards and regulations governing fall protection

Limitations of Fall Protection Equipment

Understand the limitations of fall protection equipment to ensure proper use and prevent misuse



Common Causes of Falls

Analyze the most frequent causes of falls in both general industry and construction

Effective Fall Hazard Assessment

Describe practical methods for thoroughly assessing fall hazards specific to your workplace

Implementing Fall Protection

Discover best practices for selecting, implementing, and maintaining effective fall protection systems



INTRODUCING Your Host & Presenters





Why Falls Are Still Killing Workers... and What We Can Do About It



What Does the Data Say?

850+ workers died from falls in 2023

Top cause in construction industry: nearly 40% of all construction deaths

Most violated OSHA standard year after year: Fall Protection (1926.501)

Billions in workers' comp costs annually from fall-related injuries

Number of Fatalities Year Fall Type Falls to Lower Level Falls to Same Level

Fatal Falls in the Workplace, United States (2013-2023)

Source: https://injuryfacts.nsc.org/work/safety-topics/falls-lower-level/



What types of fall related incidents are common in your workplace?

(i) The <u>Slido app</u> must be installed on every computer you're presenting from



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Common Causes of Falls

- Unprotected edges and openings
- Misuse or lack of fall protection equipment
- Slips, trips, and unstable walking surfaces
- Improper use of ladders and scaffolding
- ✓ Weather/Environmental factors





MEMIC Claim Data

Average Claim Cost by Cause of Fall – 2020-2024







The National Construction Safety Week 2025 & OSHA National Safety Stand-Down to Prevent Falls in Construction: May 5 to 9





Where Do Fatal Falls Occur?







Where Do Fatal Falls Occur?





A Real Fatal Fact Story





What's the Common Thread?

No matter the industry, task, or height — the common theme is *missed opportunities to prevent the fall*.

Whether it's no training, no equipment, or no culture of enforcement, these incidents are predictable and preventable.



Fall Hazard Assessments Where Prevention Begins

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Conducting a Workplace Fall Hazard Assessment

STEP 1

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- Identify Tasks Involving Work at Heights
- Ladders, mobile equipment, leading edges



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- Inspect W Areas & Walkways
 - Uneven surfaces slippery floors, unprotected edges, holes



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- Review existing controls
- Inspection
 Schedule
- Guardrails, Safety Nets, Personal Fall Arrest in place?



Conducting a **Workplace Fall Hazard Assessment**

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 Guardrails, Safety Nets, Personal Fall Arrest in place?

Fall Hazard Assessment Tools & Resources

- MEMIC Fall Hazard Self-Assessment Tool (link provided at end of webinar)
- OSHA's Fall Hazard Checklist & E-Tools
- Leverage real-world input: incident reports, near misses, and employee feedback
- Integrate assessments into safety committee walkarounds





From Assessment to Action: Your Fall Protection Plan

Hazard Assessments Documented Evaluations

Regular Inspections and Audits Continuous Improvement Controls Implementation Selecting the Right Protective Measures

Employee Training and Reinforcement Proper Equipment Use









Most Frequently Cited Serious Violations in Construction FY 2024 6 of the 10 Violations Related to Falls



Detailed General Industry Citations, 2024 Walking / Working Surfaces

	S T A N D A R D	# OF SERIOUS VIOLATIONS
	Fall Protection-Unprotected Sides and Edges	319
2	General – Walking / Working Surfaces Are Kept Clean	227
	General – Walking / Working Surfaces Are Kept Free of Hazards	129
	General – Workroom Floor Kept In a Dry Condition	76
P	General – Walking / Working Surfaces Inspected	69

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Fall Protection Height Requirements

Fall protection is required at different heights depending on the industry.

OSHA General Industry Regulations

- General Requirements 4 Ft.
- Fixed Ladders 24 Ft.

OSHA Maritime Regulations

• General Requirements – 5 Ft.

OSHA Construction Regulations

- General Requirements 6 Ft.
- Scaffolding 10 Ft.
- Steel Erection General 15 Ft.
- Steel Erection Connectors 30 Ft.

Mine Safety and Health Administration (MSHA)

• Safety Belts and Lifelines – 6 Ft.







Assess Workplace for Areas Where Workers May Fall



Create a Written Fall Protection and Rescue Plan

EMPLOYER REQUIREMENTS:

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Select & Install Fall Protection Systems

Train Workers



Ongoing Evaluation

- Safe work procedures
- Adherence to program
- Equipment Inspection
- Follow-up Training



FALL PROTECTION

The Hierarchy of Fall Protection is the preferred order of control for fall hazards. As the Hierarchy progresses, so does the risk.



Preferred solution is to eliminate exposure to the fall hazard.

2 PASSIVE FALL PROTECTION

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Physical barriers, like guardrails around unprotected edges and covers over holes.

SYSTEMS

Use personal protective equipment to restrict the worker's range of movement so they cannot fall.

4SYSTEMS

Use personal protective equipment to arrest a fall within acceptable force and clearance margins.



5 CONTROLS

Least preferred solution is work practices or procedures that increase a worker's awareness of a fall hazard.

Fall Protection Prevention Strategies

Engineered Solutions





Fall Protection Prevention Strategies Administrative Controls





Controlled Access Zone

Warning line / Safety Monitoring Systems



Maintenance & Repair Fall Protection Requirements when Working on Low Sloped Roofs:

Work 6–15 feet from roof edge:

- Use a designated area only if work is infrequent & temporary
- Workers must stay inside the designated area
- No fall protection required if work is infrequent & temporary
- Must enforce a written rule: No one within 15 feet of the edge without protection

Work 15+ feet from roof edge:

- Must use fall protection (guardrail, net, restraint system, or designated area)
- No fall protection required only if work is infrequent & temporary
- Must enforce a written rule: No one within 15 feet of the edge without protection

Note:

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- **Temporary** = 2 hours max
- Infrequent = Once per month or less

Warning Line Requirements

Warns workers to stay away from fall hazards Consists of ropes, wires, or chain

Placement

Strength

force

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Fall Arrest / Falling Object Protection Personal Protective Equipment



Personal Fall Arrest System



Falling Object Protection



Anchor Points



I-Beam Adjustable Strap



Permanent Roof-top



Non-Penetrating Temporary Roof Top Anchor

Must support **at least 5,000 lbs. per worker** or be designed and installed under the supervision of a qualified person.



Body Harness

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Connecting Devices





- Must have a maximum arresting force of 1,800 lbs.
- Free fall must not exceed **6 feet**.
- The deceleration distance must not exceed **3.5 feet**.

Class 1 & Class 2 – SRLs: What is the Difference?



*SRL: self-retracting lanyard

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Personal Fall Arrest System Inspection

All gear must be inspected

- Visually each time prior to use
- Documented by a competent person in accordance to manufactures guidelines on frequency

Fall protection: How to inspect your full-body harness

Each time, before you use it:

Inspect the labels

All labels should be intact

Look for damaged, broken,

missing, or distorted

buckles, eyelets, and

D-rings. Release tabs on buckles must work freely

and click when the buckle

Annual inspection

by a competent

At least once a year, the

inspected by a competent

person other than the user. Record the date and the

results of the inspection.

harness should be

and legible.

Inspect the

hardware

engages.

person



Inspect the Impact indicator

The impact indicator is a section of webbing that is secured with a special stitch pattern. It is designed to release when the harness has been subjected to impact loading from a fall. Prevent any future use by destroying and discarding the harness if the impact indicator is broken.

Inspect the webbing

Look for frayed, cut, or broken fibers and stitches. Broken stitches may indicate the harness has been subjected to a fall. Other signs of damage: tears, abrasions, mold, burns, or discoloration from ultraviolet light and corrosive chemicals.

Also

Check the harness manufacturer's inspection recommendations to b sure that you are no missing anything.



Fall Arrest Clearance – 6' lanyard







Fall Arrest Clearance – Self-Retracting Lanyard



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Scenario Details

Oregon OSHA's fall distance educator

How far can you fall with a shock-absorbing lanyard? Oregon OSHA's fall distance educator shows you how to calculate your fall distance and your free fall distance with three different scenarios. To keep things simple, the educator assumes:

- You are a six-foot male who weighs 200 pounds
- You are using a six-foot shock-absorbing lanyard with an internal 3.5-foot shock absorber
- The height from your working surface to your back D-ring is 5 feet
- Your shock absorber will be fully deployed after you fall

While the scenarios may not represent real-world situations, they will help you understand how far you could fall when you really are using a shock-absorbing lanyard.



Scenario 1

Anchorage Connector is 10 feet above the working surface.

Will he be safe if he falls?







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Anchorage Connector is 10 feet above the working surface.

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Scenario 1

Anchorage Connector is 10 feet above the working surface.

Will he be safe if he falls?

YES!!

6 ft. Lanyard 10 ft. 3.5 ft. shock absorber stretch 20 ft. 4.5 ft. 5 ft. to Total fall D-ring distance 5.5 ft.

Oregon OSHA's fall distance educator



Scenario 2

Anchorage Connector is at the working surface.

Will he be safe if he falls?





Scenario 2

Anchorage Connector is at the working surface.

Will he be safe if he falls?





Scenario 2

Anchorage Connector is at the working surface.

Will he be safe if he falls?

NO





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Rescue Plan





Questions?

Summary

- **Top Fall Risks:** Understand the most common causes of falls across general industry and construction.
- Standards & Regulations: Review key OSHA and ANSI fall protection requirements.
- Hazard Assessment: Learn how to assess workplace-specific fall hazards effectively.
- **Equipment Limitations:** Recognize the boundaries of fall protection gear to ensure proper usage.
- **System Implementation:** Explore best practices for selecting, implementing, and maintaining fall protection systems.

Q&A



- Use the Chat box to type your questions or share your thoughts.
- Feel free to ask about specific scenarios or challenges you are facing.
- Let us know if you'd like further clarification on any topic discussed.





THANK YOU FOR YOUR PARTICIPATION

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- Responses to all unanswered questions.
- A link to this recording.

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