

This is for importance of correctly using personal fall protection systems to prevent falls during steel erection activities, in compliance with OSHA 29 CFR 1926 Subpart R (Steel Erection).

Key Points:

OSHA Requirement for Fall Protection

- According to OSHA 29 CFR 1926.760, fall protection is required for all employees engaged in steel erection activities at heights greater than 15 feet, except for connectors and workers in controlled decking zones (CDZs) under specific conditions.
- Personal fall arrest systems (PFAS) must be used where fall hazards exist unless guardrails or safety nets are in place.

Components of a Personal Fall Arrest System (PFAS)

- Full-body harness: Must be worn correctly, with straps snug and D-ring positioned between the shoulder blades.
- Anchorage point: Must be capable of supporting at least 5,000 pounds per employee or designed with a safety factor of two per OSHA 1926.502(d)(15).
- Lanyard and connectors: Must include a shock-absorbing lanyard or selfretracting lifeline (SRL). Ensure connectors are compatible and locked.
- Inspection: Before each use, inspect harnesses, lanyards, and anchor points for wear, cuts, or damage. Remove defective equipment from service immediately.

Proper Use and Best Practices

- 100% Tie-Off: Always remain tied off when working at heights above 15 feet.
 Use two lanyards when transitioning between anchor points to maintain continuous protection.
- Anchor Point Selection: Choose anchor points at or above the D-ring level to minimize swing falls and limit free fall to 6 feet or less, per OSHA 1926.502(d)(16).
- Rescue Plan: Ensure a rescue plan is in place for workers using PFAS.
 Prompt rescue is critical to prevent suspension trauma.



 Training: All workers must be trained on PFAS use, inspection, and limitations, per OSHA 1926.761.

Hazards to Avoid

- Never tie off to unsecure objects like pipes, conduit, or rebar not designed for fall protection.
- Avoid knotting or looping lanyards, as this reduces strength.
- o Do not use damaged equipment or equipment past its service life.

Compliance with Standards

- Personal fall protection systems must meet OSHA 1926.502 and ANSI/ASSP
 Z359 standards for fall protection equipment.
- Ensure all equipment is labeled with manufacturer specifications and meets
 AISC guidelines for safe steel erection practices.

Discussion Questions:

- 1. Has anyone encountered a situation where their fall protection equipment didn't seem secure? What did you do?
- 2. What challenges do you face when maintaining 100% tie-off during steel erection tasks?
- 3. How can we improve our inspection process to ensure all fall protection gear is safe to use?

Worker Responsibilities:

- Inspect your PFAS before every use and report any damage to the supervisor.
- Wear your harness properly and stay tied off at all times when working at heights.
- Participate in rescue drills and understand the site's rescue plan.
- Speak up if you see unsafe fall protection practices.

Supervisor Notes:

- Verify that all workers are trained and competent in PFAS use.
- Ensure anchor points are properly engineered and inspected.



- Review the site-specific fall protection plan daily and confirm rescue procedures are in place.
- Document this toolbox talk and worker attendance.

Falls are the leading cause of fatalities in construction, and steel erection is high-risk work. Using personal fall protection correctly is non-negotiable, it's your lifeline. Stay vigilant, inspect your gear, and always tie off. Let's keep safety first.



Safety Meeting Sign-Off Sheet

Date:	<u> </u>
Job Name:	<u> </u>
Competent Person Name:	<u> </u>
Competent Person Signature:	
Topic: Ensuring Safe Use of Personal Fall Protection Systems in Steel Erection	
Attendees:	