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USF SafetyFlorida Consultation Program

OSHA TRAINING INSTITUTE EDUCATION CENTER

Fall Protection for the Construction Industry

Webinar

04/30/2014

Webinar Rules

- Please mute your computer sound
- Please mute your phones
- Please do not put your phones on ‘Hold’
- The Facilitator and Presenters will address questions at the end of the presentations
- To conserve time, feel free to begin posting questions in the chat box.
- Questions
  - Chat using gotomeeting
  - Raise hands using gotomeeting
  - Wait until end

Presenters:

Keith Brown

Pat Stark

Gabriel Garcia

Why the emphasis on fall protection in the construction industry?

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- In calendar year 2012, falls accounted for 228 (36%) of the 775 deaths in the construction Industry.
- Falls are preventable

2011 Fatalities

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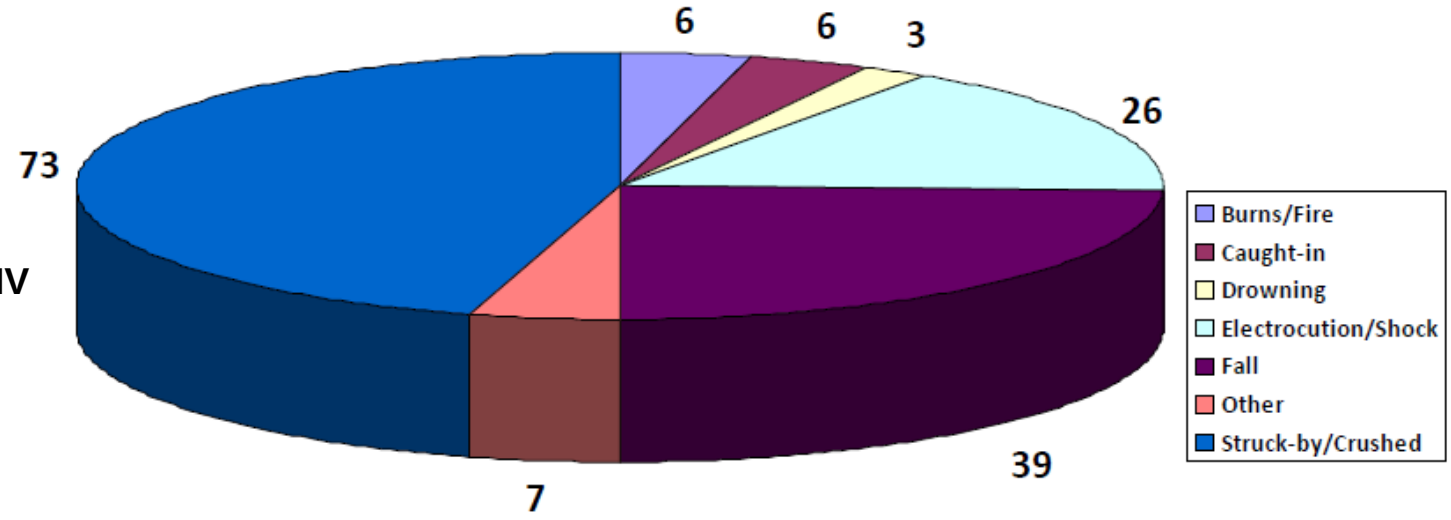
OSHA Reg. IV



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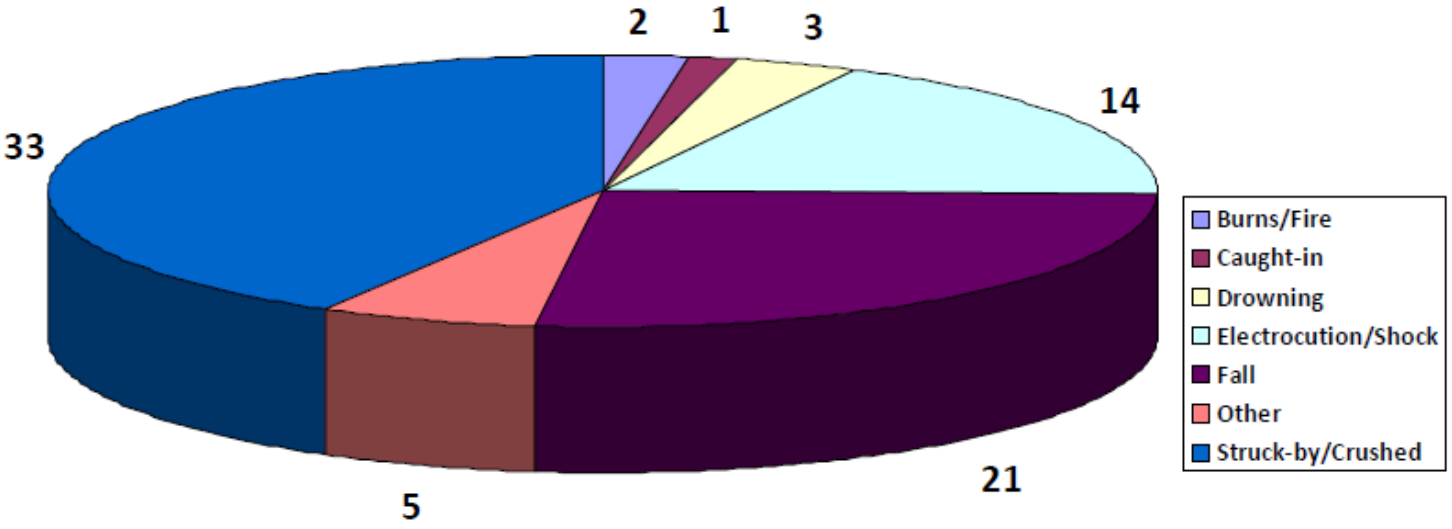

2012 Fatalities

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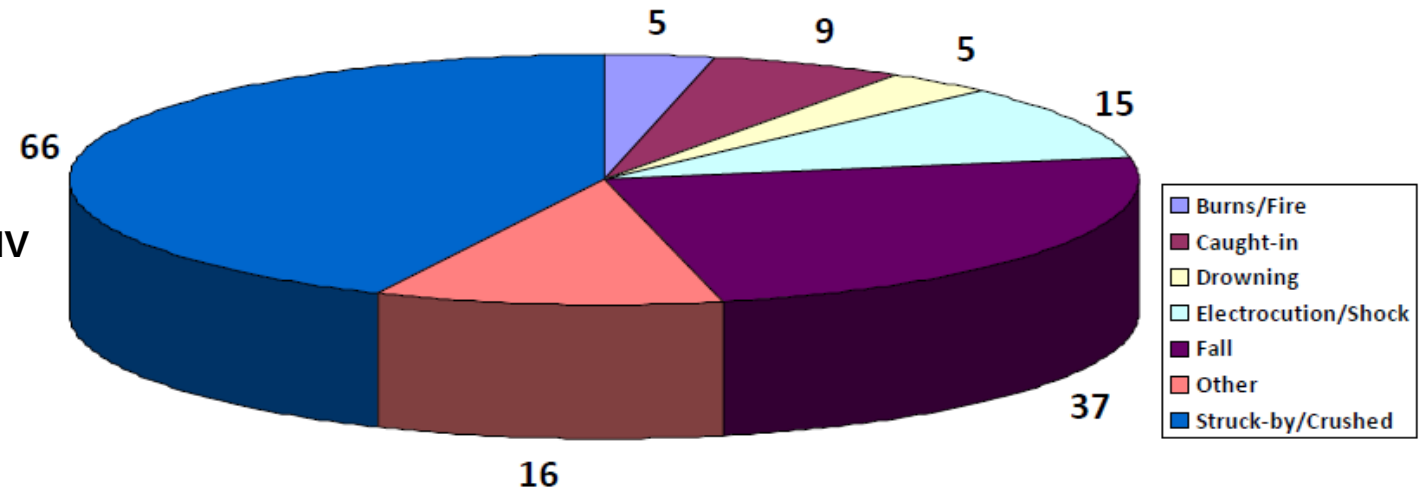
OSHA Reg. IV



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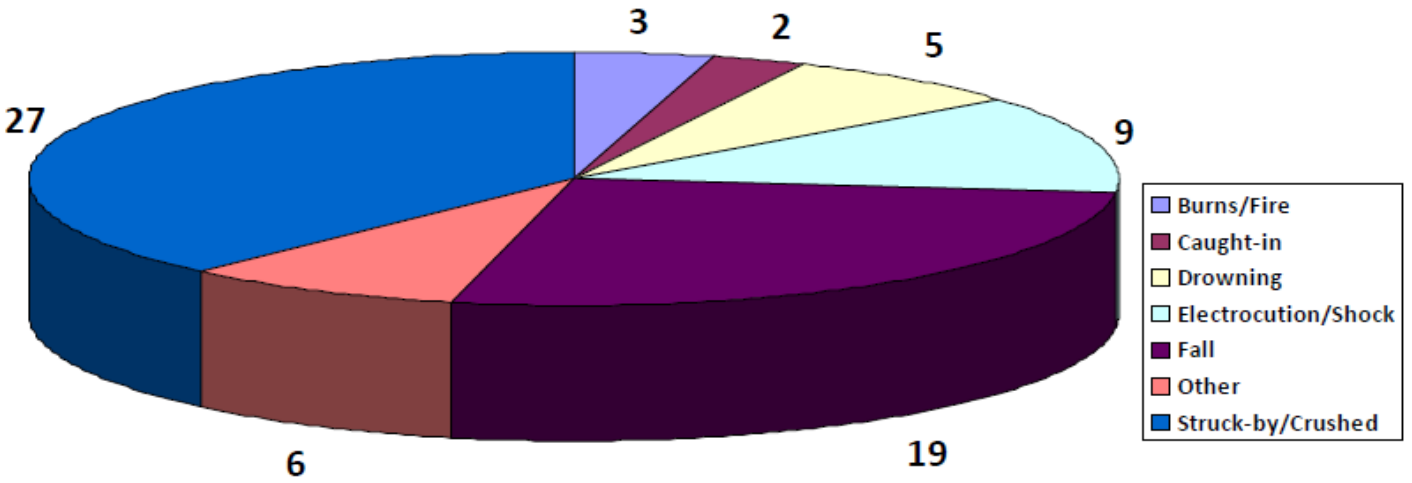

2013 Fatalities

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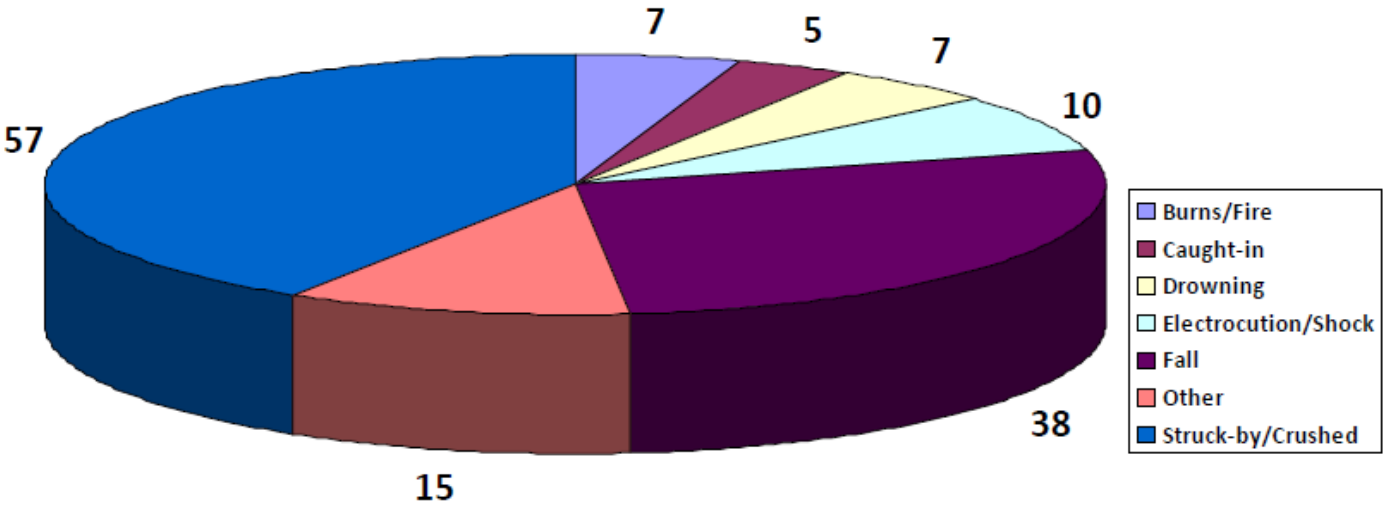
OSHA Reg. IV



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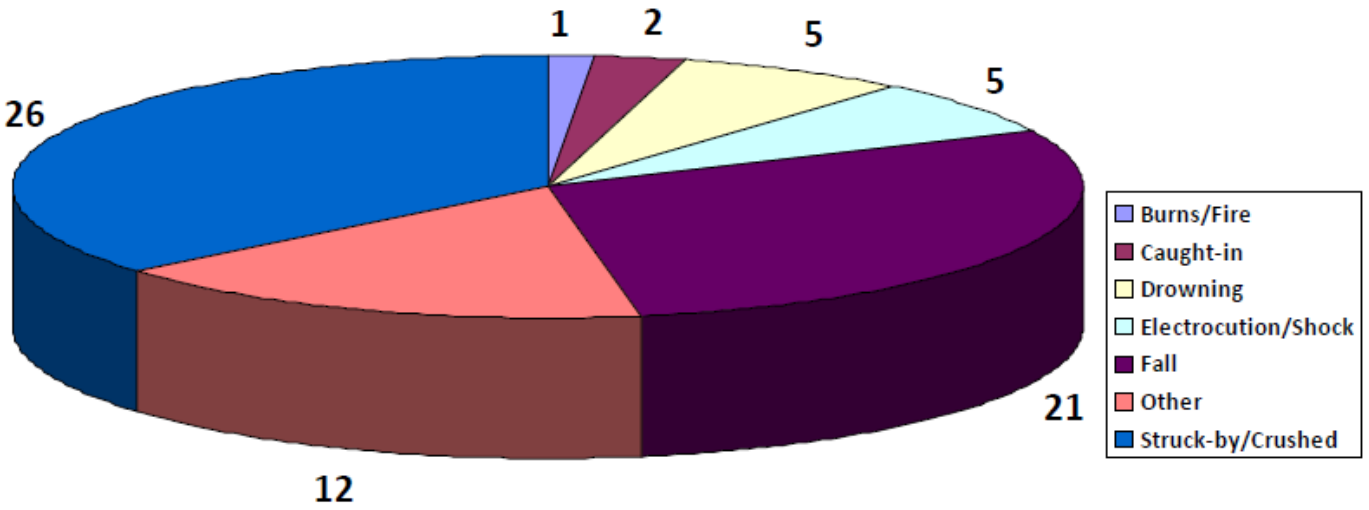

Fall Protection in Construction

- 1994 – Final Rule (Subpart M) Published on Fall Protection Requirements for the Construction Industry
- Fall Protection must be provided for falls of 6’ or more
- Conventional Fall Protection: Guardrail systems, PFAS, or safety nets.

Interim Fall Protection Compliance Guidelines for Residential Construction (STD 03-00-001) - Rescinded

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- 2012 - OSHA rescinded the “Interim Fall Protection Compliance Guidelines for Residential Construction
- The guidelines permitted employers to use alternative methods of fall protection without having to demonstrate infeasibility
- With the issuance of the new directive, all residential construction employers must comply with 29 CFR 1926.501(b)(13).

Duty to Have Fall Protection

- FY 2013 – 1926.501 was the most frequently cited OSHA standard
  - 1926.501 – Assess the workplace/working conditions for fall and falling object hazards and Provide protection from such hazards;
  - Preferred/conventional methods of protection: Guardrails, Personal Fall Arrest System (PFAS), or safety nets.
  - Provides acceptable alternative methods for certain activities

Keys to Fall Prevention:

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- **Plan** projects to ensure that the job is done safely. Begin by deciding how the job will be done, what tasks will be involved, and what safety equipment may be needed to complete each task.

Plan

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Keys to Fall Prevention:

- **Provide** fall protection and the right equipment for the job, including the right kinds of ladders, scaffolds, and safety gear.

Keys to Fall Prevention:

- **Train** workers on the specific equipment they will use to complete the job. Employers must train workers in hazard recognition and in the care and safe use of ladders, scaffolds, fall protection systems, and other equipment they'll be using on the job.

Implement Effective Safety and Health Management System

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- Management Leadership & Employee participation
- Workplace Analysis
- Hazard Prevention and Control
- Safety and Health Training for Managers and Employees
- Periodic Review

National Stand-down for Fall Prevention in Construction

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- June 2-6, 2014
- Campaign provides employers with lifesaving information and educational materials on how to:
  - plan ahead to prevent falls,
  - provide the right equipment for their workers
  - and train all employees in the proper use of that equipment.

To learn how to partner with OSHA, visit http://www.osha.gov/StopFallsStandDown/

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- The page provides details on how to:
  - conduct a stand-down;
  - receive a certificate of participation;
  - and access free education and training resources, fact sheets and other outreach materials in English and Spanish.

National Safety

Stand-Down

To Prevent Falls in Construction

JUNE 2 - 6, 2014

Fall Prevention Resources

Employers may distribute pre-printed training materials, e.g., "Safety" Brochures, and OSHA's Fall Prevention Campaign Resources consisting of: OSHA Fall Prevention Facts Sheets, Posters, Wallet Cards, Training Guide, Quick-Cards and Ladder/Safety Guidance materials located in:

- OSHA's Educational Materials and Resources for Workers and Employers
- OSHA's Fall Prevention Training
- OSHA's Falls Prevention Campaign (en español)
- OSHA's Publications
- OSHA's Media Resources

Stand-Down Poster

OSHA's National Safety Stand-Down Poster [1 MB PDF*, 1 page] (en español [1 MB PDF*, 1 page])

Training Materials

OSHA Fall Prevention Training Guide – A Lesson Plan for Employers, includes tool box talks. [PDF* 3.9MB | EPUB* 2.6MB | MOBI* 1.5MB]

CPWR: Stop Construction Falls: contains educational and training tools including the fatality map.

Prevention Videos (v-Tools)

Falls in Construction

- Floor Openings
- Fixed Scaffolds
- Bridge Decking

Additional Resources

To learn more about preventing falls in construction visit:

http://www.osha.gov/stopfalls/

Users: What about anchorage points? Length of lifeline?

Anchorage devices

These devices MUST be checked prior to purchase and prior to use!

1. **If using on a metal deck, does the manufacturer allow this for metal decks?**
2. **How many and what types of screws and/or nails does the manufacturer require? Where in the device are these nails/screws required?**
3. **How many employees per anchorage?**
4. **Has the foreman, crew been made aware of all the specs on these so they use them as mfg requires (i.e. adequately trained?)**

Temporary Horizontal Lifelines (HLL)

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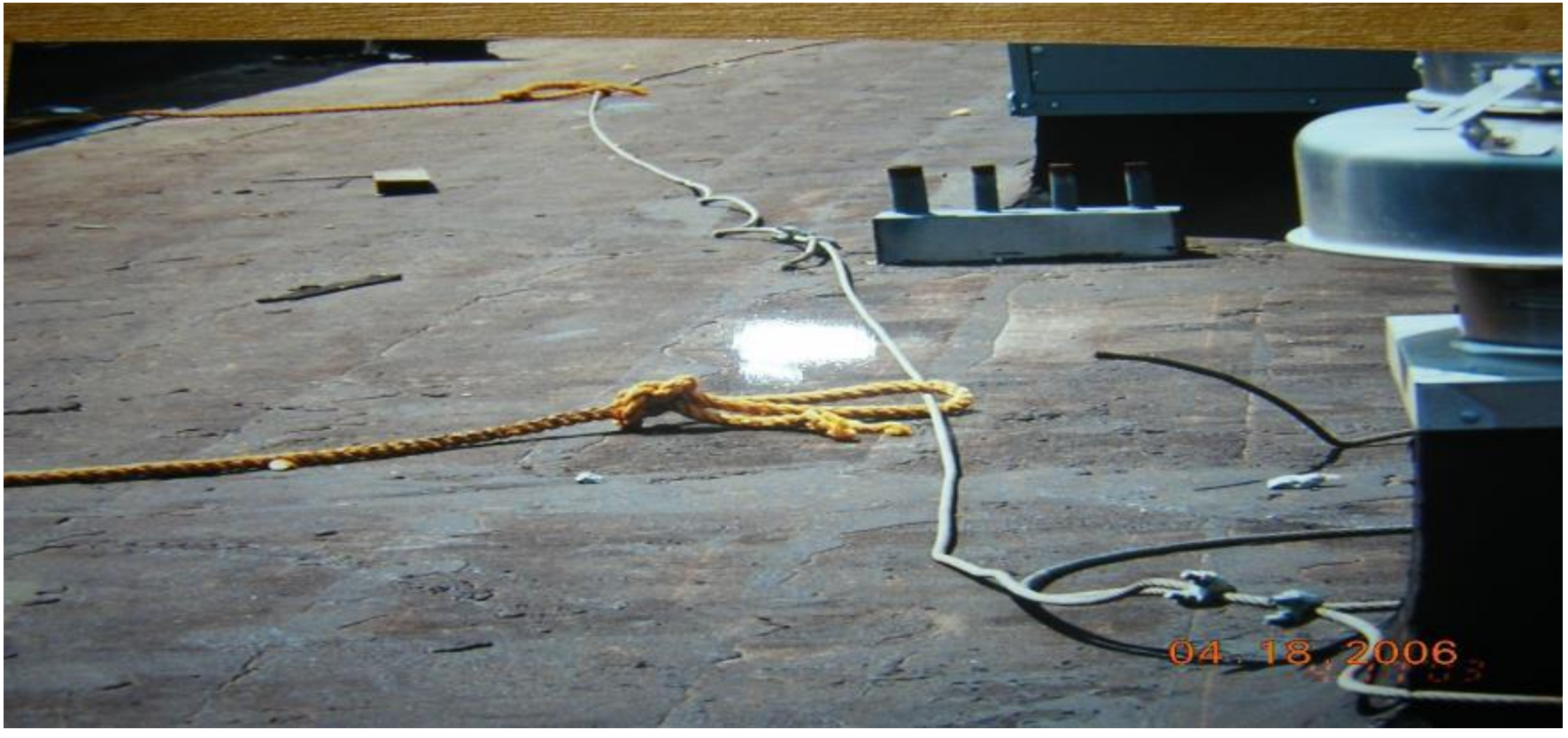
This was a temp HLL being used. Notice splices in wire rope, nylon rope used for lifelines. Fall height to lower level was +-30'. 1926.502(d)(8)—HLLs need to be designed, installed and used under supervision of a QUALIFIED person.



Workers wearing harnesses, **but not** anchored off…

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Qualified powered industrial truck operator? Fall hazard.

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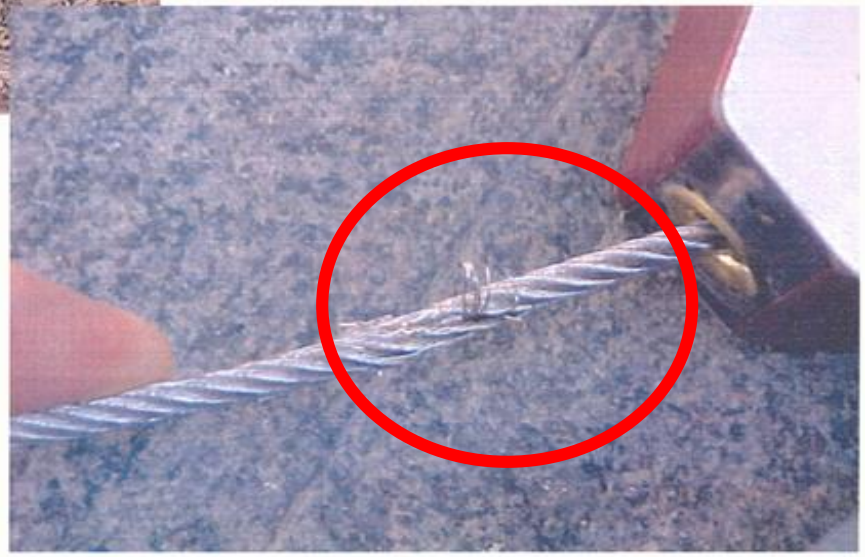
Has forklift manufacturer approved this basket? 1926.451(c)(2)(iv); can't be moved horizontally while occupied. 451(c)(2)(v).

Inspection of all personal fall arrest systems (PFAS) is an important element of fall protection



Always Inspect these devices. “Like a box of chocolates, you never know what you’re gonna get,”

Who determined this was an adequate walking/working surface; potential for fall or for platform to collapse

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1926.501(a)(2)- Employer shall determine if walking working surfaces…have strength and structural integrity to support employees.

1926.501(4)(i)- Holes employees shall be protected from falling through holes (including skylights) more than 6’ above lower levels.

Fall Protection of course applies to scaffolds

And access ladders req'd to prevent falls- 1926.451(e)(1)

Guardrails required when employees +10' above lower level—1926.451(g)(1)

Proper Planning Just Might Prevent Poor Performance!

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There's a better way for the Buddy System when using fall protection!

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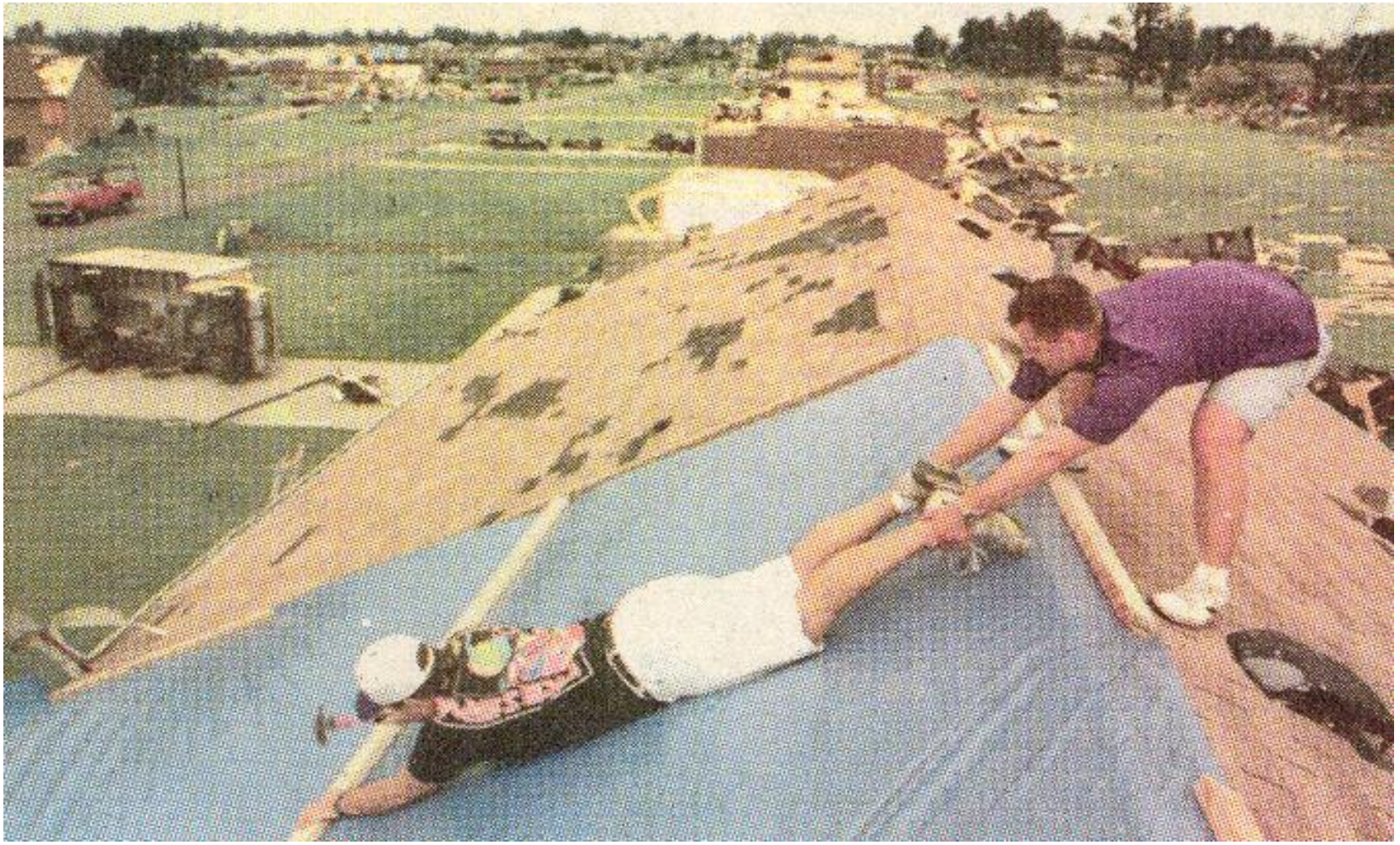

Possible Solutions

- Disclosure: USF Safety Consultation Program does not support or endorse any safety brand, type or company. The following products are only shown to provide possible suggestions and or solutions to fall protection problems.

Effective Fall Protection Basics

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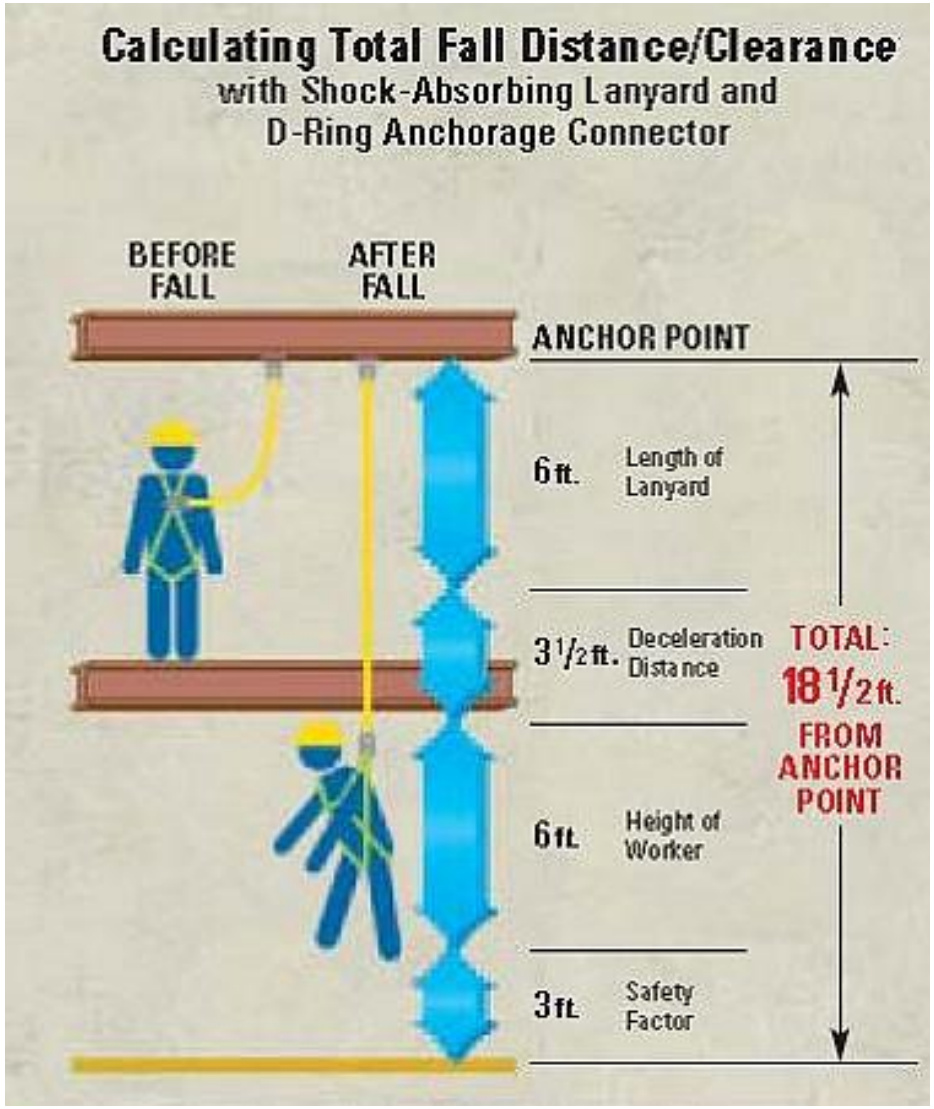
- Training
- Body Harness
- Connectivity
- Anchoring
- Guardrail systems
- Scaffolding

Harness

Lanyards

Fall Distances



Anchor Types (Misc.)

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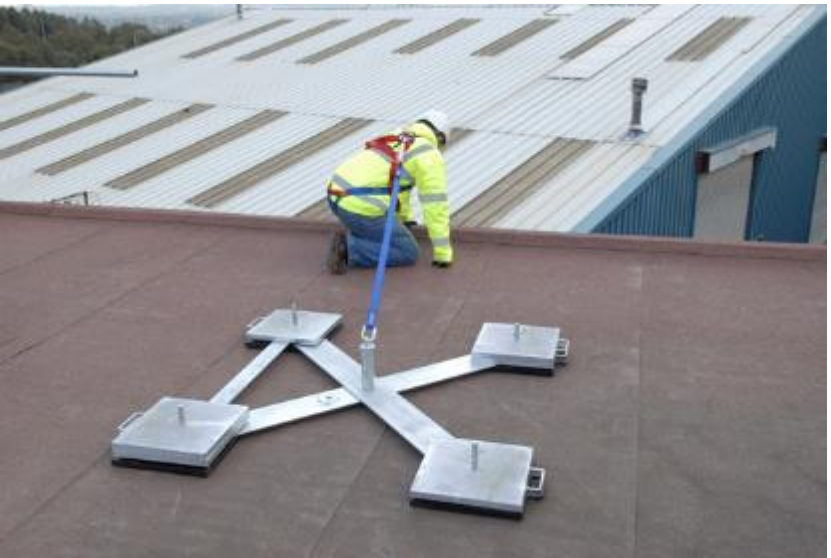

Anchor Types

Anchor Types (For Wood)

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Anchor Types (Planned/Fixed)

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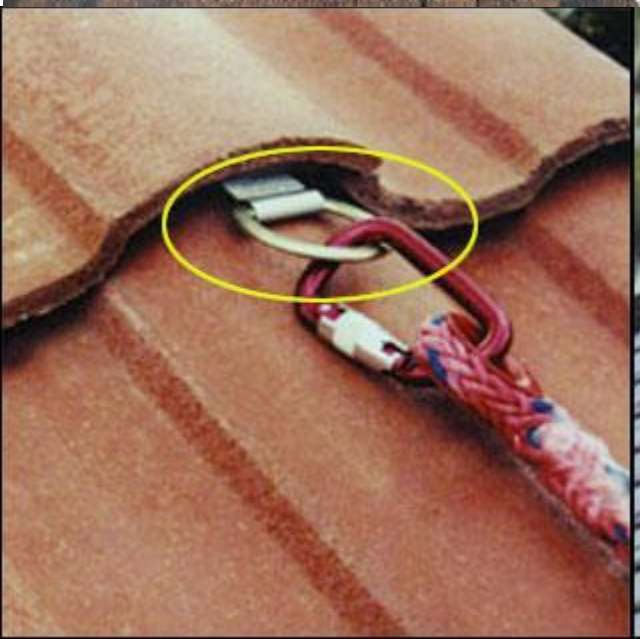

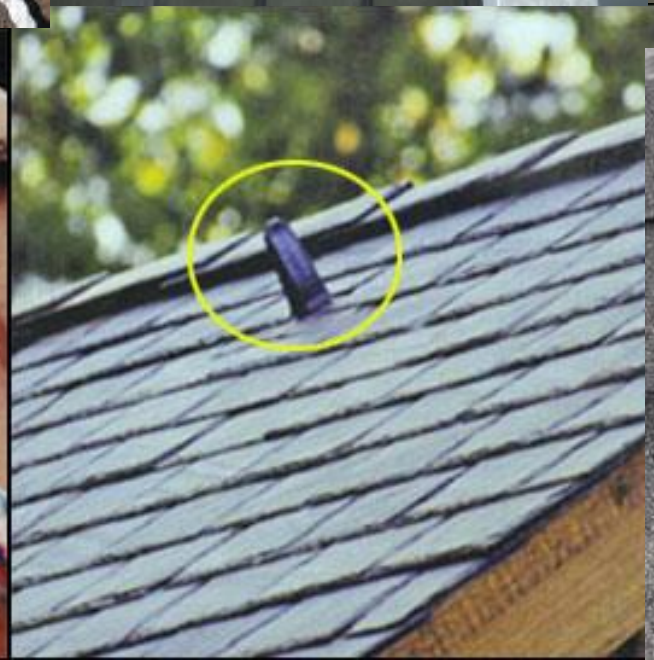

Anchor Types

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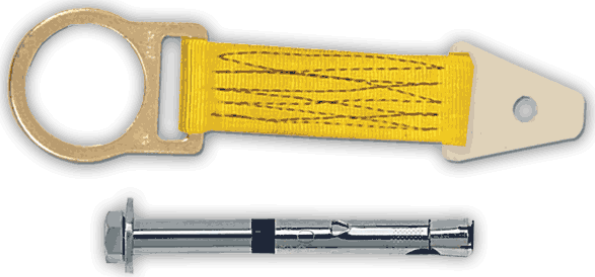

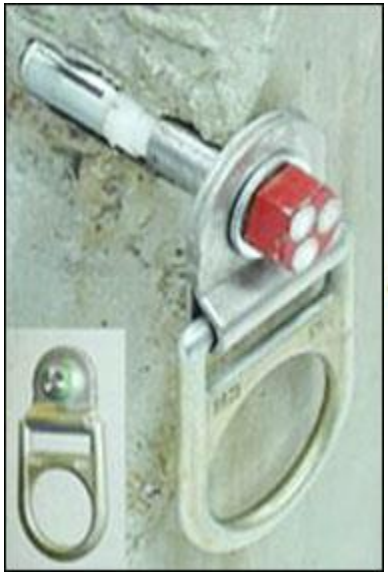

Straps

Mobile Anchors

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Anchors/Lifeline

Lifelines

SALA

Locking
Snap
Hook
Rope
Grab
D-Clip
Lanyard
with Shock
Absorber
Lifeline

Guardrails/Anchor Points

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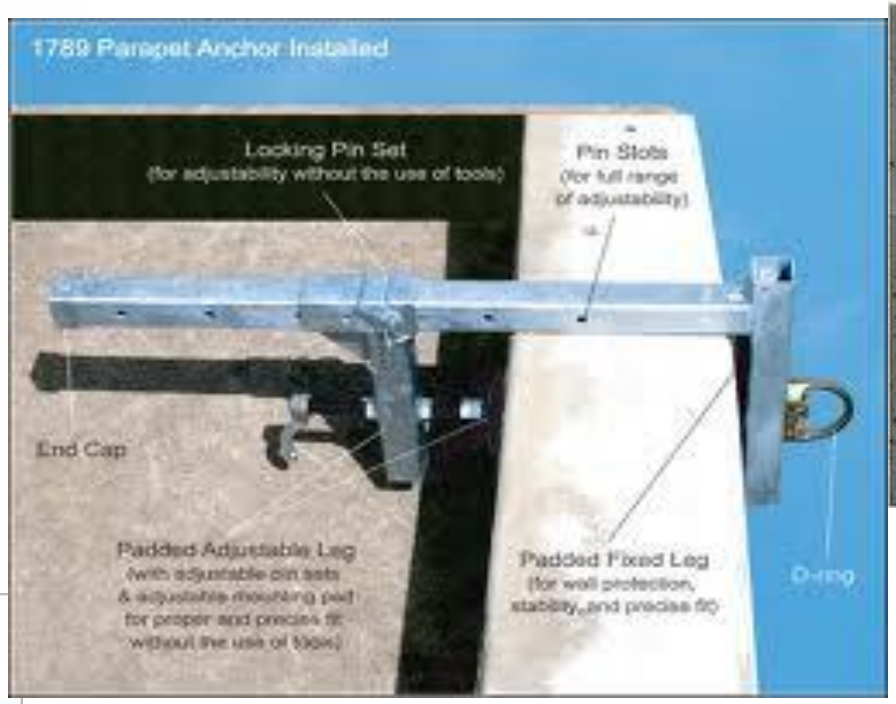

Guardrails

Scaffolding

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Scaffolding

Scaffolds & Guardrails

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In Summary

- Training
- Fall Protection Equipment
- Infeasibility

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- Provide free and confidential on-site consultations upon request
- Assist businesses with identifying hazardous work areas
- Offer guidance to help mitigate hazardous or potentially hazardous areas
- Assist with written safety plans
- Help with safety training and education for management and employees
- Help businesses profit from workplace safety and eliminate workplace hazards that cause injury, illness or death
- Assist small businesses comply with OSHA standards

www.usfsafetyflorida.com

USF OSHA Training Institute Education Center

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- Provide Safety and Health program training to both private and public sector employers and employees.
- Assist OSHA in administering and monitoring the OSHA Outreach Training Program
- Develop and monitor OSHA Authorized Trainer Outreach Training Program Courses
- Develop and train OSHA Authorized Outreach Trainers in construction, general industry, disaster site workers, and the maritime industries
- Over 40 Courses
  - Train the Trainer
  - On Line
  - On Site

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Questions?

Survey!