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**SAFETY PROFESSIONALS**

# **ANSI Z359.2 Overview**

ASSP Bakersfield

Chapter

# Fall Protection History:

Oldest Fall Protection Regulation on Record:

***“When you build a new house, be sure to put a railing round the edge of the roof. Then you will not be responsible if someone falls off and is killed”***

*Moses, Old Testament, Book of Deuteronomy, Various Laws, 22.8*



# What is ANSI?

- “The American National Standards Institute is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems and Personnel in the United States”



# ANSI Z359 'Fall Protection Code'

- ❑ Recognized by OSHA as Best Practice as it relates to a Managed Fall Protection Program
- ❑ Adopted as citable Law by the Army Corps of Engineers under EM-385.1.1
- ❑ Manufacturing Guidelines for Components within a Personal Fall Arrest System

# ANSI Z359 'Fall Protection Code'

- **ANSI Z359.0:** Definitions and Nomenclature Used for Fall Protection and Fall Arrest
- **ANSI Z359.1** Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
- **ANSI Z359.2** Minimum Requirements for a Comprehensive Managed Fall Protection Program **This is our World!**



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# ANSI Z359 'Fall Protection Code'

- ANSI Z359.3 Safety Requirements for Positioning and Travel Restraint Systems
- ANSI Z359.4 Safety Requirements for Assisted-Rescue and Self Rescue Systems, Subsystems and Components
- ANSI Z359.5 Safety Requirements for Personal Fall Arrest System



# ANSI Z359 ‘Fall Protection Code’

- ANSI Z359.12 Requirements for Safety Components
- ANSI Z359.13 Requirements for Lanyards and Energy Absorbers
- ANSI Z359.14 Requirements for Self-Retracting Lifelines





# ANSI Z359 ‘Fall Protection Code’

- ANSI Z359.15 Requirements for Vertical Lifelines
- ANSI Z359.16 Safety requirements for Climbing Ladder Fall Arrest Systems
- ANSI Z359.17 Requirements for Horizontal Lifelines



# ANSI Z359 'Fall Protection Code'

- ANSI Z359.18 Requirements for Anchorage Connectors
- Coming soon .19 Safety Requirements for Rigid Lifelines, just received approval to become sub-committee

# ANSI Z359.2 2023

- Establishes Minimum Criteria for a Managed Fall Protection Program
- Defines Training Requirements and scope of practice of the Competent Person & Authorized User
- Establishes criteria for Qualified Person and Program Administrator
- User focused Standard, applies to all trades, Industrial and Construction.



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# **OSHA Definition of Competent Person, 1926 Subpart M**

- “One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them” [29 CFR 1926.32(f)].

# ANSI Z359.2 2023 Definition of Competent Person

- **3.2.4 Competent Person.**
- **3.2.4.1** The Competent Person shall be responsible for the immediate supervision, implementation, and monitoring of the managed fall protection program



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.2** The competent person shall be knowledgeable through experience and training of applicable fall protection regulations, standards, equipment and systems, and mandatory requirements for fall protection equipment and systems used by their employers.



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.4** The competent person shall identify, evaluate, and impose limits on the workplace activities to control fall hazard exposures and swing falls.
- These limitations shall be communicated to all employees who are authorized to utilize the fall protection system.





# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.6** The competent person shall prepare, update, review and approve written fall protection procedures as directed by the program administrator.





# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- The competent person shall review the procedures as workplace activities change to determine if additional practices, procedures, or training need to be implemented before workplace activities continue. The competent person shall ensure a written rescue plan has been developed.



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.7** The competent person shall specify in written fall protection procedures the fall protection systems, including anchorage locations, connecting means, body supports, and other fall protection equipment that authorized persons are required to use when they are exposed to a fall hazard. The competent person shall ensure a written rescue plan has been developed.



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- Competent Persons in Fall Protection are capable to supervise the selection, installation, use and inspection of non-certified anchorages
- Is the beam anchor in the picture properly placed?





# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.9** The competent person shall verify that fall protection systems have been installed and inspected in compliance with this standard and with all applicable federal, state and local regulations.



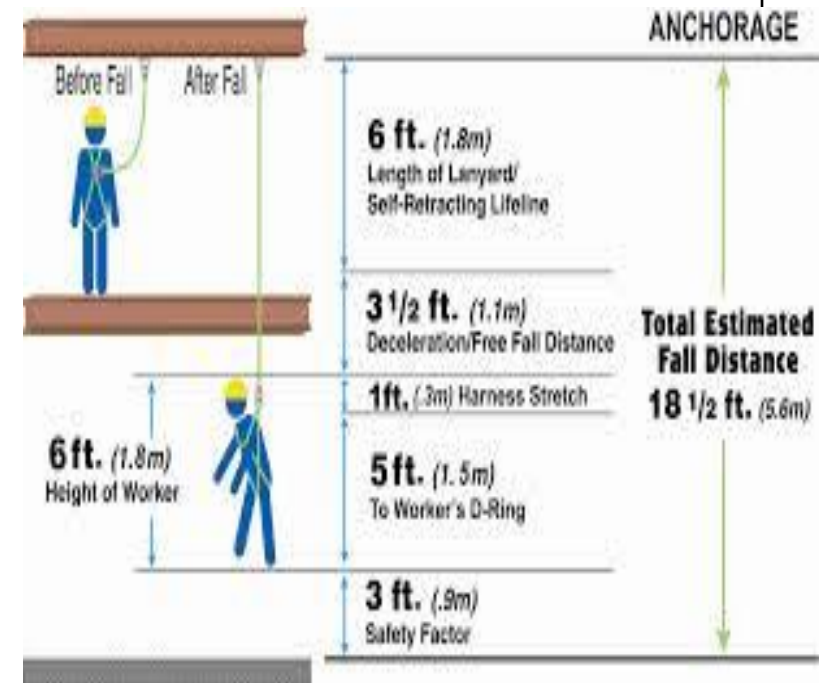
# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.10** The competent person shall verify that authorized persons who work at heights are trained and authorized to do so, and shall review with the authorized persons before work begins the fall protection and rescue procedures for the workplace activities.
- *What Does this Mean for the Competent Person in Fall Protection?*



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.11** The competent person shall establish the *clearance requirements* for each fall protection system and verify that available clearance is adequate before authorized persons are permitted in the workplace.



# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.12** The competent person shall ensure that a prompt rescue of authorized persons can be accomplished by implementing and monitoring their rescue procedures.





# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.13** The competent person shall participate in the investigation of all incidents related to falls from heights.





# ANSI Z359. 2 2023 Definition of Competent Person (continued)

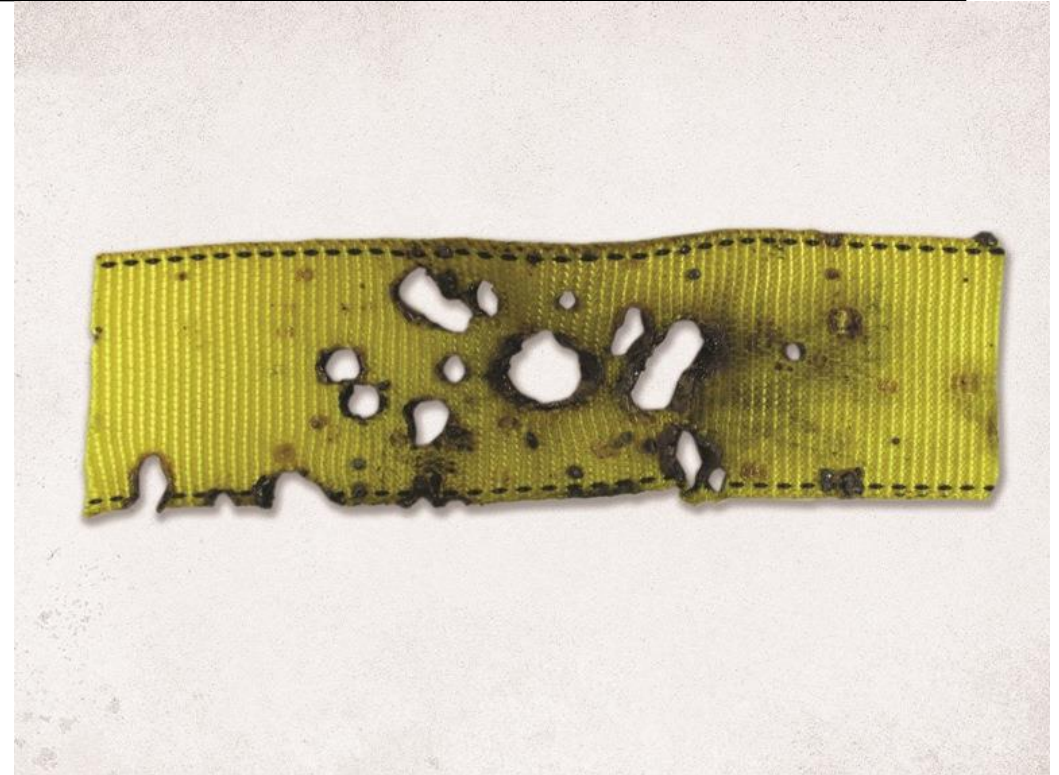
- **3.2.4.14** The competent person shall immediately remove from service all personal fall arrest systems and components that are damaged or subjected to the forces of arresting a fallen authorized person.
- The competent person shall inspect or ensure inspection occurs for damage and follow manufacturer's instruction.

Inspection by a Competent Person is required by Cal OSHA biannually



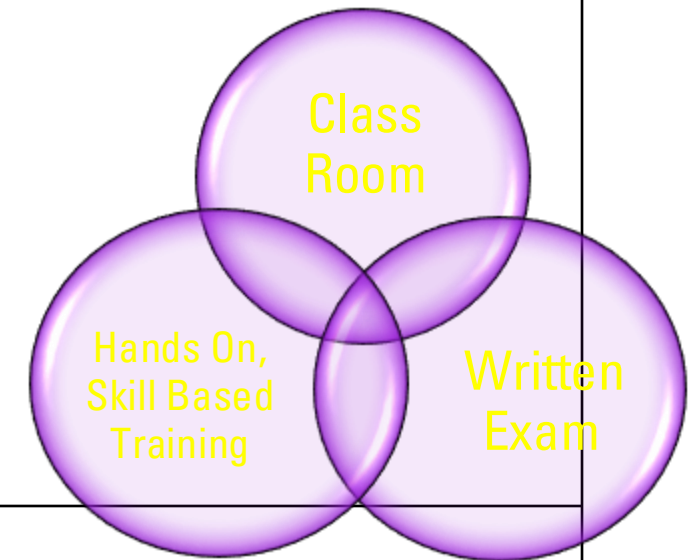
# ANSI Z359. 2 2023 Definition of Competent Person (continued)

- **3.2.4.15** The competent person shall periodically inspect all fall protection equipment at the frequency required by the manufacturer and applicable regulations.



# ANSI Z359.2 2023 Compliant Training Requirements for Authorized Users in Fall Protection (in a Nutshell)

- **3.3.6.4.2** The evaluation of an authorized person shall be performed by a competent person, qualified person, qualified person trainer, or competent person trainer.



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# SAFETY SEMINAR

USE, CARE, MAINTENANCE & INSPECTION OF ALL FALL PROTECTION EQUIPMENT

ATTENDED FALL PROTECTION AWARENESS

NAME OF TRAINEE: \_\_\_\_\_

EMPLOYER NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

EMPLOYER SIGNATURE: \_\_\_\_\_

TRAINER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

This training card certifies that the recipient has received instruction in *basic* Care, Use and Maintenance of PFAS (Personal Fall Arrest Systems). ~~XXXXXX~~ assumes no responsibility nor is it liable for injury due to improper employment of a PFAS or for failure of the user to inspect or understand the correct use of the PFAS. **User must read and understand** all warnings, instructions, manuals, and labels and must inspect all elements of their PFAS **BEFORE EACH USE.**

**Tool Box Awareness  
Talks are Great, but  
does not equate to  
OSHA 1926 Subpart  
M 503 or ANSI  
Z359.2 Compliant  
Fall Protection  
Training**



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- **3.3.6.1** Every authorized person shall receive
- Training from a Competent Person Trainer or Qualified Person Trainer before they are exposed to a fall hazard. When the nature of the work, the workplace, or the methods of control change to an extent that prior training is not adequate, the authorized person shall be retrained
- Retraining is also required when it becomes apparent to their competent person that the authorized person does not have the required level of skill and knowledge or is not following the required means and methods

## **3.3.6 Authorized Person Training**



## 3.3.6 Authorized Person Training

- **3.3.6.2** Training for authorized persons shall in *their working knowledge of personal fall arrest and rescue equipment and procedures through a practical hands-on demonstration of skill*



## 3.3.6 Authorized Person Training

- **E3.3.6.1** Training is a responsibility of the employer, which may be triggered by any of the events listed in this section. The frequency and duration of training that an authorized person requires to remain competent varies with the number and types of fall protection systems that the authorized person utilizes

- ***E3.3.6.2*** *Authorized persons should demonstrate*
- include physical demonstrations by trainees on how to inspect, anchor, assemble, and use the fall protection equipment used in locations where they work.



## 3.3.6 Authorized Person Training

- **3.3.6.3** Authorized person training shall include at
- least the following information:
- • fall hazard recognition;
- • fall hazard elimination and controls methods;
- • applicable fall protection regulations;
- • the responsibilities of designated persons under
- this standard;



## **3.3.6 Authorized Person Training**

- **3.3.6.4.1** If the program administrator determines that training every two years is not beneficial, authorized persons shall be evaluated at least annually to ensure that those individuals remain capable of performing the duties assigned
- This evaluation shall include a written examination and skill-based performance that cover all of the types of fall protection equipment that the person is authorized to operate



# **SRL PRE-USE INSPECTION: A REAL CASE STUDY**



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**THREE SRL-P'S  
FAILED FIELD  
INSPECTION,  
ALWAYS INSPECT  
THE EQUIPMENT  
BEFORE EACH USE!!!**



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# ANSI Z359.14 2021 Self-Retracting Lifelines

- ANSI/ASSP Z359.14-2021 is updated to have three self-retracting lifeline (SRL) categories (Self-Retracting Lifeline) – for standard or [leading edge](#) applications.
- New: SRL-P (Personal SRL) – mounted on a harness and for standard or leading edge applications.
- SRL-R (Retrieval Self-Retracting Lifeline) – SRL with retrieval or rescue functionality.



# ANSI Z359.14 2021 Self-Retracting Lifelines

- Under each SRL category, there are new Class designations. Class A and Class B devices have now been re-designated as Class 1 or Class 2 devices, under the new ANSI Z359.14-2021 standard. SRDs must now show a Class 1 or 2 SRD label on the product in order to designate. Class 1 SRD – must be used with an anchorage point at or above the dorsal D-ring.
- Class 2 SRD – for use with an anchorage either above or below the dorsal D-ring.





## **Summary, ANSI Z359.14 2021 Class 1 and Class 2 SRL's**

- Class 1 Self-Retracting Lifelines can only be anchored at or above the dorsal Dee-ring



## **Summary, ANSI Z359.14 2021 Class 1 and Class 2 SRL's**

- Class 2 Self-Retracting Lifelines can be Anchored at foot level in leading-edge applications



## **What about Lanyards? Standard 6' Shock Absorbing Lanyard**

- Limited to 6' free-fall
- Anchor at dorsal dee-ring or above
- White label with black lettering
- Label will indicate 6' free fall, 900 Lbs. MAF



# What about Lanyards?

## Extended Free-Fall Shock Absorbing Lanyard

- Extends Free-Fall to 12'
- Anchor below Dee-ring, down to foot level.
- Black label, white lettering
- Label will indicate 12 ft., 1,350 MAF

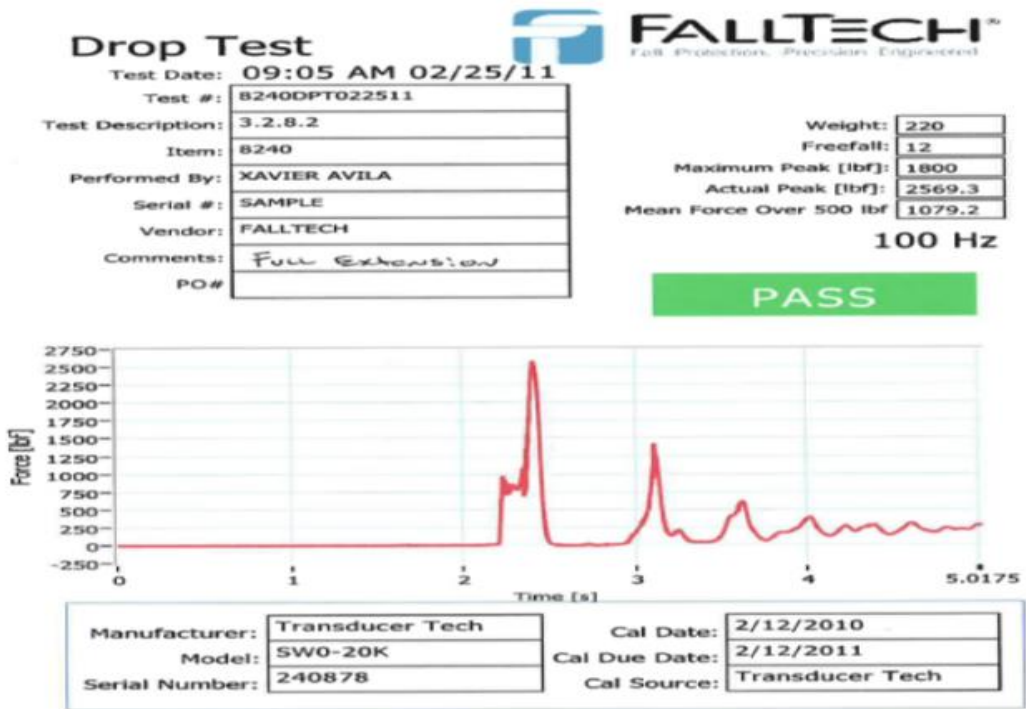


Shock Absorbing Lanyard rated for 6’ Free Fall,  
exposed to 12’ FF with 200 Lb. Weight,  
2,569 Lbs. of MAF!!!

Well above OSHA’s allowable 1,800 Lbs. MAF



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**What does ANSI Z359 recommend for proper connection while in a Mobile Elevated Work Platform?**



# Two Options are Recommended for Connection while in a Mobile Elevated Work Platform

Adjustable Fall Restraint Lanyard



Class 2 Personal Self-Retracting Lifeline

