Ladder Safety Webinar Series: Safety While Climbing







Ladder Safety Webinar Series: Safety While Climbing



Chad D. Lingerfelt National Jobsite Safety & Security Retired USAF



WEAREONE.

Our culture is the foundation for our success. It's the way we work, interact, and win...together.

We compete as a team

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We believe in collaboration and working together to capitalize on the strength of our collective ideas. We are passionate about recruiting, developing, and retaining the most talented and diverse team possible. We put the most skilled, collaborative, engaged team on the field of play every day.

We act with integrity

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We speak openly and honestly. We tell the whole story, not just what is convenient to our individual goals. We win with diversity and inclusion and embrace people from diverse backgrounds, cultures, and ways of thinking. We treat each other with integrity and respect. We always do the right thing, even when no one is watching.

We care for our customer, enduser and the communities we live in

The lives of our end-users depend on the quality of our products/ brands, so excellence and accountability are at the forefront of every decision we make. We are engaged and driven to exceed the expectations of our customers and to give back to the communities we live in.

We believe that innovation and continuous improvement define our future

Innovation is our ultimate competitive differentiator. We pursue out-of-the-box ideas, both big and small, to add value and continuously improve our products, processes, and services. We act with a sense of speed and urgency because we know our teammates, customers and end-users are counting on us. We are high achievers, driven to get better every day and to exceed expectations.

We keep score and play to win

We are results driven and are accountable to each other while delivering short and long term results. We understand that success enables us to continually invest back into our businesses and our people to help them realize their full potential. We earn our shareholder's investment and trust by consistently delivering on our commitments.

WERNER



Ladder Safety While Climbing

Ladder Safety Month

March 2021





Top 10 Violations – 2020

- **1. Fall Protection General Requirements (1926.501)**
- 2. Hazard Communication (1910.1200)
- **3. Respiratory Protection (1910.134)**
- 4. Scaffolding General Requirements (1926.451)
- 5. Ladders (1926.1053)
- 6. Control of Hazardous Energy Lockout/Tagout (1910.147)
- 7. Powered Industrial Trucks (1910.178)
- 8. Fall Protection Training Requirements (1926.503)
- 9. Personal Protective and Lifesaving Equipment Eye and Face Protection (1926.102)
- **10. Machine Guarding- General Requirement (1910.212)**

Where WernerCo Can Help

How to Choose a Ladder? (Mike Melton)



https://www.wernerco.com/climbing-pro

Ladder Inspection and Set Up (Milt DeAsis)





† End Cap's and End Closure's positions differ by ladder models. End Caps - completely cover the rail. End Closures - partially cover the rail, leaving clearance for the mating ladder section.

*Diagram shows typical ladder parts. Parts and features may differ by ladder model.

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Ladder Inspection Form

Download Ladder Inspection Forms from the Werner website:

https://www.wernerco.com/climbing-pro



Ladder Safety – Proper Use While Climbing

- How many points of contact?
- Always face the ladder when climbing and descending
- Walking a ladder
- Don't Reach! Keep belt buckle between rails
- Top 2 steps on Stepladder
- Sitting or standing on top cap
- Avoid setting up a ladder in a doorway or pedestrian path





Ladder Safety – Proper Use While Climbing

- How to properly angle Extension Ladders (4:1 Ratio)
- How many rungs above the roof line?
- Feet are flat/level
- Careful loading and unloading
- Check flippers, rope, pulley, feet
- Secure the ladder to your work surface
- Keep ladder clean of any slippery materials
- Only one person at a time on ladder unless specifically designed for more than one climber





Ladder Safety – Duty Ratings

- Ladders are available in different duty ratings, based on their load capacity
- There are 5 duty ratings recognized by ANSI (used by all manufacturers)
- End user needs to consider not only their weight, but the weight of any materials when considering duty rating Werner uses a color system to simplify proper weight capacity selection
- Never exceed the duty rating of a ladder



200 lbs.*	Economical design for lightweight use	Type III
225 lbs.*	Basic design for simple projects	Type II
250 lbs.*	Designed to handle most projects and jobs	Type I
300 lbs.*	Rugged performance designed with the pro in mind	Type IA
375 lbs.*	Maximum performance and durability for the toughest jobs	Type IAA



Ladder Safety – Duty Ratings

LADDER IDENTIFICATION LABELS

I.D. labels provide important information regarding each ladder's Model Number, Type, Duty Rating, Size, and Highest Standing Level.



Orange Label For Type IA Extra Heavy Duty Gold Label For Type IAA Special Duty



Combined weight of user and material should not exceed duty rating

APPROXIMATE MATERIAL WEIGHTS

70 lbs.
70 lbs.
60 lbs.
35 lbs.
20 lbs.
30 lbs.
80 lbs.
40 lbs.
60 lbs.
80 lbs.
80 lbs.

Ladder Safety – 5 Most Common Causes of Ladder Incidents

1. Missing the last step of the ladder when climbing down.

Exercise caution when climbing down a ladder. Always face the ladder when climbing up or down, and don't skip steps!

2. Overreaching while on the ladder.

When working from a ladder, keep your center of gravity and body between the side rails. If you can't easily reach the project area once you have ascended the ladder, climb down the ladder and move the ladder closer to your project area.

3. The ladder was not the right size for the job.

One of the factors in determining the right ladder for the job is length. A good rule of thumb when selecting a ladder is to calculate a person's maximum reach height, which is approximately four feet higher than the height of the ladder.

https://blog.ansi.org/ali/common-causes-ladder-incidents/#gref





Ladder Safety – 5 Most Common Causes of Ladder Incidents

4. The ladder was not on firm, level ground.

Clear trash, construction materials and other obstructions away from the base and top of the ladder. The base of the ladder should be safely secured to prevent accidental movement. You can also use a ladder with non-slip feet or add levelers to the bottom of an extension ladder to increase the footprint.

5. Three points of contact were not used when climbing the ladder.

Always maintain three points of contact – two hands and a foot, or two feet and a hand – when climbing up or down a ladder. This allows you to maintain your balance.

https://blog.ansi.org/ali/common-causes-ladder-incidents/#gref



Any Questions?

Ladder Safety Webinar Series

Choosing Your Ladder On-Demand

Safety Before the First Step (Inspection and Set Up) On-Demand

Safety While Climbing Tuesday, March 16 | 1:00 PM CT

Safety at the Top Tuesday, March 23 | 1:00 PM CT

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