

# Ladder Inspection Meeting Kit



## WHAT'S AT STAKE

Let's talk about ladder inspections and why they're so important. When you're working at height, a ladder is often your direct support, and if it fails, the consequences can be really serious. We're talking about falls that can lead to broken bones, sprains, strains, head injuries, and even fatalities.

Think about it: a cracked rung could give way under your weight, a loose step might cause you to lose your balance, or damaged side rails could lead to the whole ladder collapsing. Regular inspections are all about catching these potential problems before they cause an accident.

## WHAT'S THE DANGER

Consider the potential hazards when using a ladder that hasn't been properly inspected or is damaged.

### Structural Failure Leading to Falls

The most immediate danger is the ladder itself failing under your weight or the stress of use. This can happen due to:

- Rungs, steps, side rails, or braces that are damaged can give way unexpectedly, causing a sudden loss of support and a fall.
- Loose rungs or steps can shift or detach, leading to instability and loss of balance. Missing parts can compromise the ladder's structural integrity.
- Over time, materials like metal or wood can weaken due to rust, rot, or other forms of degradation, making the ladder unsafe.

### Instability and Loss of Balance

Even if a ladder doesn't suffer a complete structural failure, existing defects can severely compromise its stability. This significantly increases the likelihood of a loss of balance and a subsequent fall. Damaged or worn components, such as feet or leg levelers, can prevent the ladder from achieving a firm and level stance on the ground.

This can manifest as a noticeable wobble or an increased tendency for the ladder to tip to one side while in use. Furthermore, the presence of slippery substances on the rungs or steps creates a direct hazard to your footing. Accumulated dirt, grease, or

spilled paint can make it far easier for a foot to slip unexpectedly.

## HOW TO PROTECT YOURSELF

A meticulous inspection of any ladder before each and every use is the most critical step. This allows you to identify potential hazards before they can lead to an accident.

### Deep Dive into Structural Checks

- **Material-Specific Issues:**

- **Wood Ladders:** Pay close attention to the grain of the wood. Look for splits or cracks that run along the grain, as these significantly weaken the ladder. Check for signs of rot or insect infestation, especially in areas that might have been exposed to moisture. Also, be aware of warping or twisting of the side rails or rungs.
- **Metal Ladders (Aluminum/Fiberglass):** Inspect for dents, bends, or crimps in the side rails or rungs. These can compromise structural integrity. Look for signs of corrosion, especially around joints and fasteners. On fiberglass ladders, check for blooming (a white powdery residue) or fiber damage, which can indicate weakening of the material.
- **Joint Integrity:** Carefully examine all points where rungs, steps, or braces are connected to the side rails. Look for any movement, looseness, or gaps. Ensure that rivets are tight and not sheared, and that bolts and screws are securely fastened. Welded joints should be free of cracks or signs of failure.
- **Load-Bearing Components:** Pay extra attention to components that bear the primary load, such as the main side rails and the points where the rungs attach. Any damage to these areas is particularly critical.

### Functionality and Safety Mechanisms in Detail: Extension Ladder Specifics

- Check the rope for fraying, cuts, or excessive wear. Ensure the pulley turns freely and is securely attached.
- Operate the locking mechanisms to ensure they engage firmly and prevent the ladder sections from slipping. Inspect the pawls (the locking hooks) for wear, bending, or damage.
- Make sure the rail guides allow the sections to move smoothly without binding and prevent excessive wobble between sections.
- Verify that when the ladder is extended for use, the minimum required overlap between the sections is maintained according to the manufacturer's instructions (often marked on the ladder).

### Documentation and Training:

Okay, so when it comes to ladder inspections, some places keep a record of when ladders were checked before. If you see a tag, give it a quick look, but still do your check! More importantly, make sure you know how to check a ladder properly and what to look for. Being trained to spot problems and knowing you can say "no" to a dodgy ladder is key to staying safe up there

## FINAL WORD

Remember this: your pre-climb inspection is your first and best defense. Take that minute to really look over things. If anything seems off – a wobble, a crack, a loose rung – don't risk it. Find a safe ladder. It's a small step that can prevent a big

fall.

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