

Extension ladders

Explain dangers

Extension ladders can be dangerous tools. Workers have been killed and injured from falls and powerline contact.

Identify controls

- Choose the right ladder for the job. On a construction project, it must meet the requirements of a Grade 1, Grade 1A, or Grade 1AA ladder under CSA Z11-12: *Portable Ladders*. Also, it must be long enough to:
 - be set up at a safe angle (see image below)
 - extend 90 cm (3 ft) beyond the top landing.
 - A two-section extension ladder should be no longer than 15 m (50 ft); a three-section ladder should be no longer than 20 m (66 ft).
 - Check the ladder for damage or defects:
 - before you set it up
 - after it has been used somewhere else by other workers
 - after it has been left somewhere for a long time.
 - Set the ladder on a firm, level base. If the base is made of soft, loose, or wet material, clear it away or stand the ladder on a mud sill.
 - Never erect extension ladders on boxes, carts, tables, or other unstable objects. Never stand them up against flexible or movable surfaces.
 - Set the ladder up at a safe angle—one foot out for every three or four feet up, depending on length.
 - When the ladder is set up, there should be a clear space of at least 15 cm (6 in) behind each rung for the front of your foot to fit.
 - When the ladder is fully extended, sections must overlap at least 90 cm (3 ft).
 - Stand no higher than the fourth rung from the top.
 - Don't carry tools, equipment, or material in your hands while climbing. Use a hoist line or gin wheel for lifting and lowering.
- Tie off or otherwise secure the top and bottom of the ladder. Keep areas at the top and bottom clear of debris, scrap, material, and other obstructions.
 - Clean mud, snow, and other slippery substances off your boots before climbing.
 - When climbing up or down, always face the ladder and maintain 3-point contact.
 - Be very careful when erecting extension ladders near live overhead powerlines. Never use metal or metal-reinforced ladders near electrical wires or equipment.
 - Wherever possible, use extension ladders only for access—not as work platforms.
 - When you must work from a ladder more than 3 m (10 ft) off the ground, wear a safety harness and tie off to a well-anchored lifeline or other support—not to the ladder.

Demonstrate

Use an extension ladder to demonstrate the controls to your crew as you talk.

