



Fall Protection Program

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DEFINITIONS

Anchor: secure fall protection points of attachment for lifelines, lanyards or deceleration devices; designed to hold fast under the forces generated during a fall.

Back pad: in case of suspension trauma, pads can be added to a full body harness to alleviate the effects of blood pooling in the veins of the legs.

Chafing pad: used around sharp edged structures to prevent cutting action against safety lanyards or lifelines.

“D”ring: Dorsal D-Rings are an essential piece of any harness used by workers for fall protection. They get their name from generally being D-Shaped, though their shapes can vary. D-Rings are tie-down rings that act as anchors on harnesses used to hold workers tightly with a rope or cord to prevent falling.

EHS&RM: Environmental, Health, Safety & Risk Management

Excavation: any man-made cut, cavity, trench, or depression in an earth surface, formed by earth removal.

Guard rail: A bar or series of bars that prevent objects or people from falling from a raised platform. Guardrails shall be 2 x 4 inches or the equivalent. The top edge height of top rails, or equivalent guardrail system members, are 42 inches (107 cm), plus or minus 3 inches (8 cm), above the walking-working surface.

Hole: a hollow place in a solid body or surface.

Lanyard: Part of a fall arrest or fall restraint system which connects the “D” rings on a harness to an “O” ring on a rope grab. Essentially there are three types of lanyards: shock-absorbing lanyards, self-retracting lanyards (or SRLs), and positioning lanyards.

Leading edge: any unprotected edge of a platform, floor, or other construction point where the elevation between the next level or the ground is greater than six feet.

Pendulum: a body suspended from a fixed point so as to swing freely to and fro under the action of gravity and commonly used to regulate movements.



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Safety nets: used at high-rise construction sites for preventing accidental fall of people or objects from the site.

Static load: a mechanical force applied slowly to an assembly or object. Static loads do not change over time but remain constant, allowing tests to be conducted to determine the maximum loads that can be withstood by structures.

Toe board: a protective barrier installed on the edges of work platforms or other raised areas to prevent objects from falling to a lower level and potentially harming someone or causing damage to property.

Stanchion: an upright bar, post, or frame forming a support or barrier.

Unprotected edge: any side or edge (except at entrances to points of access) of a walking/working surface, e.g. floor, roof, ramp, or runway where there is no wall or guardrail system, at least 39 inches (1.0 m) high.

Warning line: a flagged line set up around the perimeter of a roof designed to alert workers that they are approaching an unprotected edge.

Webbing: strong, closely woven fabric used for straps, belts, etc.

RESPONSIBILITIES

Environmental, Health, Safety & Risk Management (EHS&RM) has the primary responsibility for the implementation of the Fall Protection Program (FPP) and is responsible for the following:

- Developing, implementing, and evaluating the Fall Protection Program to ensure compliance.
- Reviewing Hazards and incidents associated with fall protection equipment.
- Assisting supervisors with employee training.

Supervisors

Supervisors are responsible for providing the necessary direction and support to ensure the effective implementation of the Fall Protection Program for their work areas. Supervisors are responsible for the following:

- Comply with all Fall Protection Program procedures.
- Identify all fall hazards and activities in their workplace and implement preventative measures for these hazards.
- Ensure all affected employees attend and complete required training.
- Ensure that all personal fall arrest or restraint systems are maintained in accordance with the manufacturer's specifications.
- Hands on training of all fall protection equipment is required.
- Ensure employees are using all fall protective equipment in accordance with OSHA regulations



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Employees

Affected employees are responsible for the following:

- Comply with all Fall Protection Program procedures.
- Maintain all Personal Protective Equipment (PPE) required to work at heights.
- Inspect all fall protection equipment prior to use.
- Attend and complete all training requirements.
- Immediately report all damaged or defective fall protection equipment to the supervisor
- Use all fall protection equipment in accordance with OSHA regulations.

PROGRAM

General Industry

All employees will be protected from falling when working on a surface that has an unprotected side, edge, etc., or elevated work platforms at a height of 4 feet or more above an adjacent lower level.

Construction Industry

All employees performing construction type activities will be protected from falling from a surface 6 feet or more above a lower level. Scaffolds used during construction type activity requires fall protection to be used at 10 feet or more above a lower level.

Fall hazards must be evaluated to determine the preferable method to protect the employee. When considering what type of fall protection to use, the following solutions should be considered:

- Elimination of the fall hazard by bringing the work down to ground level
- Use of passive fall protection systems such as guard rails
- Fall restraint to prevent a person reaching a fall hazard
- Fall arrest which utilizes equipment to stop a fall after it occurs
- Use administrative controls which use work practices to signal or warn an employee of a fall hazard

General Industry Fall Hazards

The following are identified as general industry fall hazards:

Loading Docks

Loading docks and other open sided floors greater than 4 feet above the ground must be protected. The approved method of protection is the installation of a standard guardrail system. The guardrail may have removable sections to provide access for loading but rails must remain in place when access is not required.

Floor and Wall Openings and Holes

For stairway openings, standard railings shall be provided on all exposed sides except at the stairway entrance. Where an employee can accidentally walk into a floor hole opening measuring 12 inches but more than 1 inch in its least dimension, shall be guarded by either a standard railing



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with toe board, or a floor hole cover of strength and construction to support required load. A wall opening of 4 feet or more above an adjacent surface shall be guarded.

Open Sided Floors or Platforms

An open sided floor or platform or a runway that is 4 feet or more above the ground level or above the adjacent floor shall be guarded by a standard railing on all open sides except for the entrance (to a ramp, stairway, or ladder). If equipment or materials could fall and create a hazard, then the railing system must include a toe board on each side.

Skylights

Skylights are considered an opening when present on a roof. A standard guardrail or skylight screen capable of supporting at least 200 pounds must be provided around the opening to prevent employees from falling through to the surface below.

Open Pits, Tanks, or Spillways

Protect employees from hazards of open pits, tanks, and spillways by using covers and/or guardrails

Construction Industry Fall Hazards

The following are identified construction industry fall hazards.

Aerial Lifts and Self-Powered Work Platforms

Body harnesses must be worn with a lanyard, not to exceed 3 feet in length, or a self-retracting lifeline when working from all elevated mobile work platforms. The point of attachment must be the anchor point of installation and designated by the equipment manufacturer.

Scissor lifts and telescoping lifts that can only move vertically do not require the use of a harness and lanyard as long as the work platform is protected by a proper guardrail system and occupants do not stand on or above guardrail system.

An employee cannot move an aerial lift while the boom is in an elevated working position and the operator is inside of the lift platform.

Covers

Covers located in roadways and vehicular aisles shall be capable of supporting, without failure, at least twice the maximum axle load of the largest vehicle expected to cross over the cover.

All other covers shall be capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time.

All covers shall be secured when installed so as to prevent accidental displacement by the wind, equipment, or employees.



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Dangerous Equipment

Each employee less than 6 feet above dangerous equipment shall be protected from falling into or onto the dangerous equipment by guardrail systems or by equipment guards.

Each employee 6 feet or more above dangerous equipment shall be protected from fall hazards by guardrail systems, personal fall arrest systems, or safety net systems.

Excavations

Each employee at the edge of an excavation 6 feet or more in depth shall be protected from falling by guardrail systems, fences, or barricades when the excavations are not readily seen because of plant growth or other visual barrier. Each employee at the edge of a well, pit, shaft, and similar excavation 6 feet or more in depth shall be protected from falling by guardrail systems, fences, barricades, or covers.

Holes

Each employee on walking/working surfaces shall be protected from falling through holes (including skylights) more than 6 feet above lower levels by personal fall arrest systems, covers, or guardrail systems erected around these areas.

Each employee on a walking/working surface shall be protected from tripping in or stepping into or through holes (including skylights) by placing covers over the holes.

Each employee on a walking/working surface shall be protected from objects falling through holes (including skylights) by placing covers over the holes.

Leading Edge

Each employee who is constructing a leading edge 6 feet or more above levels shall be protected from falling by guardrails systems, safety net systems, or fall arrest systems.

Exception: when the supervisor can demonstrate that it is infeasible or creates a greater hazard to use these systems, the supervisor shall develop and implement a fall protection plan which meets the requirements of OSHA 1926.502 (k).

Each employee on a walking/working surface 6 feet or more above a lower level where leading edges are under construction, but who is not engaged in the leading edge work, shall be protected from falling by a guardrail system, safety net system, or personal fall arrest system.

Protection from Falling Objects

When an employee is exposed to falling objects, the supervisor shall have each employee wear a hard hat and shall implement one of the following measures:

- Erect toe boards, or guardrail systems to prevent objects from falling from higher levels.
- Erect a canopy structure and keep potential fall objects far enough from the edge of the higher level so that those objects would not go over the edge if they were accidentally



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displaced.

- Barricade the area to which objects could fall, prohibit employees from entering the barricaded area, and keep objects that may fall far enough away from the edge of a higher level so that those objects would not go over the edge if they were accidentally displaced.

Roofing Work or Low-Slope Roofs

Each employee engaged in roofing activities on low-slope roofs, with unprotected sides and edges 6 feet or more above lower levels shall be protected from falling by guardrail systems, safety net systems, personal fall arrest systems, or a combination of warning line system and guardrail system, warning line system and safety net system, or warning line system and personal fall arrest system, or warning line system and safety monitoring system. Or, on roofs 50 feet or less in width the use of a safety monitoring system alone is permitted.

Steep Roofs

Each employee on a steep roof with unprotected sides and edges 6 feet or more above lower levels shall be protected from falling by guardrail systems with toe boards, safety net systems, or personal fall arrest systems.

Unprotected Sides and Edges

Each employee on a walking/working surface (horizontal and vertical surface) with an unprotected side or edge which is 6 feet or more above a lower level shall be protected from falling by the use of guardrail systems, safety net systems, or personal fall arrest systems.

Wall Openings

Each employee working on, at, above, or near wall openings (including those with chutes attached) where the outside bottom edge of the wall opening is 6 feet or more above lower levels and the inside bottom edge of the wall opening is less than 39 inches above the walking/working surface, shall be protected from falling by the use of a guardrail system, a safety net system, or a personal fall arrest system.

Fall Protection Systems

One of the following systems shall be in place whenever an employee is exposed to a fall hazard.

Guardrail Systems

The use of guardrail systems is considered a passive method of fall protection and is actually the preferred method for eliminating fall hazards.

- Guardrails are needed at the edge of work areas 6 feet or more in height to protect employees from falling. This includes the edge of excavations greater than six feet in depth. Guardrail systems need to meet the following criteria:
- Top rail is 42 inches, +/- 3 inches above the walking/working level
- Mid rail is located midway between the top rail and the walking/working level



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- It is important to remember that the working level is that level where the work is being done. Someone working on a stepladder next to an edge may raise his/her working surface well above the walking surface.
- Both top and mid rails should be constructed of materials at least one-quarter inch in thickness or diameter. If wire rope is used for top rails, it needs to be flagged with a high-visibility material at least every 6 feet and can have no more than 3” of deflection
- The top rail needs to withstand a force of 200 pounds when applied in any downward or outward direction.
- The mid rail needs to withstand a force of 150 pounds applied in any downward or outward direction.
- Toe boards are required for all guardrails on elevated walking or working platforms where employees working below are exposed to falling objects. Toe boards must be four inches in height and must be securely fastened.
- The system should be smooth to prevent punctures, lacerations or snagging of clothing.
- The ends of the top rail shouldn’t overhang the terminal posts, except when such overhang does not present a projection hazard.
- When a hoisting area is needed, a chain, gate or removable guardrail section must be placed across the access opening when hoisting operations are not taking place.

Safety Nets

Safety nets shall be installed as close as practical under the walking/working surface on which employees are working, but in no case more than 30 feet (9.1 m) below such level. When nets are used on bridges, the potential fall area from the walking/working surface to the net shall be unobstructed.

Safety nets shall extend outward from the outermost projection of the work surface as follows:

Vertical Distance from Working Level to Horizontal Plane of Net	Minimum Required Horizontal Distance of Outer Edge of Net from the Edge of the Working Surface
Up to 5 feet (1.5 meters)	8 feet (2.4 meters)
More than 5 feet (1.5 meters) up to 10 feet (3 meters)	10 feet (3 meters)
More than 10 feet (3 meters)	13 feet (3.9 meters)

Safety nets shall be installed with sufficient clearance under them to prevent contact with the surface or structures below when subjected to an impact force equal to the drop test of this section.



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Safety nets and their installations shall be capable of absorbing an impact force equal to that produced by the drop test specified in this section. Safety nets and safety net installations shall be drop-tested at the jobsite after initial installation and before being used as a fall protection system, whenever relocated, after major repair, and at six month intervals if left in one place. The drop-test shall consist of a 400-pound bag of sand dropped into the net from the highest walking/working surface at which employees are exposed to fall hazards, but not from less than 42 inches above that level.

A drop test is not needed when: the supervisor can demonstrate that it is unreasonable to perform the drop-test required by this section, the supervisor (or a designated competent person) shall certify that the net and net installation is in compliance with the provisions of this section by preparing a certification record prior to the net being used as a fall protection system.

Safety nets shall be:

- Inspected at least once a week for wear, damage, and other deterioration.
- Defective components shall be removed from service.
- Safety nets shall also be inspected after any occurrence which could affect the integrity of the safety net system.

Materials, scrap pieces, equipment, and tools which have fallen into the safety net shall be removed as soon as possible from the net and at least before the next work shift.

The maximum size of each safety net mesh opening shall not exceed thirty-six (36) square inches nor be longer than 6 inches on any side, and the opening, measured center-to-center of mesh ropes or webbing, shall not be longer than 6 inches. All mesh crossings shall be secured to prevent enlargement of the mesh opening.

Each safety net (or section of it) shall have a border rope for webbing with a minimum breaking strength of 5,000 pounds.

Connections between safety net panels shall be as strong as integral net components and shall be spaced not more than 6 inches apart.

Personal Fall Arrest Systems

When an employee is requiring the use of personal fall protection equipment they shall employ another employee to render assistance when and if required.

There are three main components to the personal fall arrest system. This includes the personal protective equipment the employee wears, the connecting devices, and the anchorage point. Prior to tying off to perform the work a means of rescue in the event of a fall must be immediately available. All personal fall arrest system components must meet the requirements of the OSHA 29 CFR 1910.



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The system needs to meet the following criteria for each component.

Personal Protective Equipment

Full body harnesses are required. The use of body belts is prohibited.

- The attachment point of the body harness is the center D-ring on the back.
- Employees must always tie off at or above the D ring of the harness except when using lanyards 3 feet or less in length.
- Harnesses or lanyards that have been subjected to an impact load shall be destroyed.
- Load testing shall not be performed on fall protection equipment.

Connecting Devices

This device can be a rope or web lanyard, rope grab or retractable lifeline.

- Only locking snap hooks may be used.
- Horizontal lifelines will be designed by a qualified person and installed in accordance with the design requirements.
- Lanyards and vertical lifelines need a minimum breaking strength of 5,000 pounds.
- The length of a single lanyard shall not exceed six feet.
- The use of steel lanyards is prohibited.
- Lanyards may not be clipped back to itself (e.g. around an anchor point) unless specifically designed to do so.
- If vertical lifelines are used, each employee will be attached to a separate lifeline.
- Lifelines need to be protected against being cut or abraded

Anchorage

Secure anchor points are the most critical component when employees must use fall arrest equipment. Campus buildings may have existing structures (e.g., steel beams that may meet the criteria for a secure anchor point). Other work locations and assignments may require the installation of a temporary or permanent anchor. As a minimum, the following criteria must be considered for each type of anchor point.

- Structure must be sound and capable of withstanding a 5000 lb. static load.
- Structure/anchor must be easily accessible to avoid fall hazards during hook up.
- Direct tying off around sharp edged structures can reduce breaking strength by 70% therefore; chafing pads or abrasion resistant straps must be used around sharp edged structures to prevent cutting action against safety lanyards or lifelines.
- Structures used as anchor points must be at the worker's shoulder level or higher to limit free fall to 6 feet or less and prevent contact with any lower level (except when using a self-retracting lifeline or 3 foot lanyard).
- Choose structures for anchor points that will prevent swing fall hazards. Potentially dangerous "pendulum" like swing falls can result when a worker moves horizontally away from a fixed anchor point and falls. The arc of the swing produces as much energy as a vertical free fall and the hazard of swinging into an obstruction becomes a major factor. Raising the height of the



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anchor point can reduce the angle of the arc and the force of the swing. Horizontal lifelines can help maintain the attachment point overhead and limit the fall vertically. A qualified person must design a horizontal lifeline.

Permanent Anchor Requirements

In addition to all the criteria listed above, the following points must be considered.

- Environmental factors and dissimilarity of materials can degrade exposed anchors.
- Compatibility of permanent anchors with employee's fall arrest equipment.
- Inclusion of permanent anchors into a Preventive Maintenance Program with scheduled annual re-certification.
- Visibly label permanent anchors.
- Roof anchors must be immediately removed from service and re-certified if subjected to fall arrest forces.

Reusable Temporary Anchors

Reusable temporary roof anchors must be installed and used following the manufacturer's installation guidelines.

- Roof anchors must be compatible with employee's fall arrest equipment.
- Roof anchors must be removed from service at the completion of the job and inspected prior to reuse following the manufacturer's inspection guidelines.
- Roof anchors must be immediately removed from service and disposed of if subjected to fall arrest forces.

Complete System

If a fall occurs, the employee should not be able to free fall more than 6 feet nor contact a lower level.

- To ensure this, add the height of the worker, the lanyard length and an elongation length of 5.5 feet. Using this formula, a six-foot worker would require a tie-off point at least 15.5 feet above the next lower level.
- A personal fall arrest system that was subjected to an impact needs to be removed from service immediately.
- Personal fall arrest systems need to be inspected prior to each use and damaged or deteriorated components removed from service.
- Personal fall arrest systems should not be attached to guardrails or hoists.

Warning Line System

The warning line shall be erected around all sides of the roof work area.

When mechanical equipment is not being used, the warning line shall be erected not less than 6 feet from the roof edge.



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When mechanical equipment is being used, the warning line shall be erected not less than 6 feet from the roof edge which is parallel to the direction of mechanical equipment operation, and not less than 10 feet from the roof edge which is perpendicular to the direction of mechanical equipment operation.

Points of access, materials handling areas, storage areas, and hoisting areas shall be connected to the work area by an access path formed by two warning lines.

When the path to a point of access is not in use, a rope, wire, chain, or other barricade, equivalent in strength and height to the warning line, shall be placed across the path at the point where the path intersects the warning line erected around the work area, or the path shall be offset such that a person cannot walk directly into the work area.

Warning lines shall consist of ropes, wires, or chains, and supporting stanchions erected as follows.

1. The rope, wire, or chain shall be flagged at not more than 6 foot intervals with high-visibility material.
2. The rope, wire, or chain shall be rigged and supported in such a way that its lowest point (including sag) is no less than 34 inches from the walking/working surface and its highest point is no more than 39 inches from the walking/working surface.
3. After being erected, with the rope, wire, or chain attached, stanchions shall be capable of resisting, without tipping over, a force of at least 16 pounds applied horizontally against the stanchion, 30 inches above the walking/working surface, perpendicular to the warning line, and in the direction of the floor, roof, or platform edge.
4. The rope, wire, or chain shall have a minimum tensile strength of 500 pounds, and after being attached to the stanchions, shall be capable of supporting, without breaking, the loads applied to the stanchions.
5. The line shall be attached at each stanchion in such a way that pulling on one section of the line between stanchions will not result in slack being taken up in adjacent sections before the stanchion tips over.

No employee shall be allowed in the area between a roof edge and a warning line unless the employee is performing roofing work in that area.

Mechanical equipment on roofs shall be used or stored only in areas where employees are protected by a warning line system, guardrail system, or personal fall arrest system.

Inspection

The employee shall inspect the entire personal fall arrest system prior to every use. The competent person will inspect the entire system in use at the initial installation and weekly thereafter. The visual inspection of a personal fall arrest system shall follow the manufacturer's recommendations. Any components of a personal fall arrest system noted to be damaged shall be removed from service immediately.



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Webbing

Inspect the entire surface of webbing for damage. Beginning at one end, bend the webbing in an inverted “U”. Holding the body side of the belt toward you, grasp the belt with your hands six to eight inches apart. This surface tension makes the damaged fibers or cuts easier to see. Watch for frayed edges, broken fibers, pulled stitches, cuts, burns, and chemical damage.

“D” Rings/Back Pads

Check “D” rings for distortion, cracks, breaks, and rough or sharp edges. The “D” ring should pivot freely. “D” ring back pads should also be inspected for damage.

Attachment of Buckles

Note any unusual wear, frayed or cut fiber, or distortion of the buckles.

Tongue/Grommet

The tongue receives heavy wear from repeated buckling and unbuckling. Inspect for loose, distorted or broken grommets. The webbing should not have any additional punched holes.

Tongue Buckle

Buckle tongues should be free of distortion in shape and motion. They should overlap the buckle frame and move freely back and forth in their socket. The roller should turn freely on the frame. Check for distortion or sharp edges.

Friction and Mating Buckles

Inspect the buckle for distortion. The outer bars and center bars must be straight. Pay special attention to corners and attachment points of the center bar.

Lanyard Inspection Hardware

- Snaps: Inspect closely for hook and eye distortions, cracks, corrosion, or pitted surfaces. The keeper (latch) should seat into the nose without binding and should not be distorted or obstructed. The keeper spring should exert sufficient force to firmly close the keeper. Keeper locks must prevent the keeper from opening when the keeper closes.
- Thimbles: The thimble must be firmly seated in the eye of the splice, and splice should have no loose or cut strands. The edges of the thimble must be free of sharp edges, distortion, or cracks.

Web Lanyard

While bending the webbing over a curved surface such as a pipe, observe each side of the webbed lanyard. This will reveal any cuts or breaks. Examine the webbing for swelling, discoloration, cracks, or burns. Observe closely for any breaks in the stitching.

Rope Lanyard

Rotation of the rope lanyard while inspecting from end to end will bring to light any fuzzy, worn, broken or cut fibers. Weakened areas from extreme loads will appear as a noticeable change from



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the original diameter. The rope diameter should be uniform throughout, following a short break-in period. Make sure the rope has no knots tied in it. Knots can reduce the strength of the rope by up to 60%.

Shock-absorbing Lanyard

Shock-absorbing lanyards should be examined as a web lanyard. However, also look for signs of deployment. If the lanyard shows signs of having been put under load (e.g. torn out stitching), remove it from service.

Self-Retracting Lanyard/Lifeline

- The lanyard housing must be inspected to ensure that casing bolts are tight and that there are no loose fasteners, missing parts, cracks or excessive wear or corrosion.
- Webbing must be inspected for cuts, nicks or tears as well as for any broken fibers, stitching or fraying.
- Steel lanyards should be inspected for cuts, fraying, broken wires and overall deterioration and excessive wear.
- Fittings are to be inspected for wear or cracks and obvious damage.
- Follow manufacturer's recommendations for additional inspection tasks and for any requirements that the unit be sent in to the manufacturer for periodic inspection.

Storage of Fall Protection Equipment

Fall protection equipment must be appropriately stored to prevent damage or aging of material.

Ladders

- All ladders in use by employees will meet the following requirements:
- Wooden Ladder are not to be used on the campus of Norfolk State University.
- Ladders should be stored in such a way as to prevent damage from sagging, weather conditions, excessive heat, etc.
- If a ladder is found to be damaged and is deemed unsafe, it shall be tagged "out of service", made inoperable, or removed from the jobsite.
- Ladders shall not be left unattended in the upright position and should be removed once the worker has ascended the ladder.
- When setting up a portable ladder, be sure to set the ladder at the proper angle to the building (usually about 25% of the ladder's vertical height).
- Never lean a ladder against cables or wires of any type.
- Use the help of another worker to extend the ladder to the proper height and positioning.
- Be sure the locks are secure.
- When a climber is ascending the ladder, another worker should be used to stabilize the ladder by holding the sides and supporting the feet of the ladder.
- The climber should use the three-point method when climbing a ladder. This means that two hands and one foot or two feet and one hand should be in contact with the ladder at all times during the climb.



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- Never carry tools up the ladder in one hand. Always use two hands to climb.
- Never climb a ladder from the side or underside.
- Never “walk” or “shift” a ladder while standing on it.

Education and Compliance

- Each employee who may be exposed to fall hazards must be trained to recognize the hazards and the procedures to follow to minimize the hazards. Training should consist of the following.
- Review of OSHA requirements for fall protection;
- Fall hazards in the work area;
- Correct procedures for erecting, using, maintaining, disassembling, and inspecting the fall prevention and protection systems;
- The proper use and care of fall protection equipment;
- Limitations of fall protection equipment;
- Providing emergency assistance

Contractors

Contractors performing work on state property shall follow all OSHA guidelines for fall protection as applicable in 29 CFR 1926.500.