

SAFETY AWARENESS

Brief Topic Safety Refresher Training For Associates

2024

ABCs of Personal Fall Arrest Systems

Falls are some of the most common types of accidents in the workplace. When working at heights, an accident can result in serious injuries. As such, it's important to take precautions and utilize fall protection systems.

Personal fall arrest systems consist of three separate elements that work together to ensure safety by catching falling workers. The three pieces of fall arrest systems include an anchorage, a body harness and connecting devices. Remember them by thinking of systems as having A, B and C.

Anchorage

In personal fall arrest systems, anchorages are true to their name in that they act as the fall arrest system's anchor point. Anchorages must be fixed to structurally strong materials, as anchors are not effective if they are attached to weak materials.

Under OSHA standards, a qualified employee is required to oversee the design, installation and utilization of anchorages. Anchorages must be strong enough to support at least double the amount of expected impact load or 5,000 pounds per attached employee. If there is any doubt that an anchorage is safe, a qualified employee should inspect and evaluate it.

Body Harnesses

Body harnesses and body belts are not the same thing. Body harnesses provide far more safety than belts. In fact, body belts are not allowed to be used in fall arrest systems and should be used only as positioning devices. One of the primary advantages of a body harness is that it decreases injury risk when an employee is caught in the midst of a fall, by dispersing the impact across a larger portion of the body as opposed to it all being concentrated around the waist.

In order for a harness to be effective, it must fit properly. Be sure to check your harness every time you put it on, and make sure of a snug fit. While standing up straight, there should be no slack. You should be able to fit an open hand, but not a closed fist, between the strap and your body. Check that the D-ring is centered between your shoulder blades, and be sure to tuck in all straps once they are properly fitted.

Connecting Devices

While connecting devices are one of three primary elements that go into a personal fall arrest system, there are many smaller pieces that make up this part of the puzzle. Snaphooks, lanyards, lifelines and deceleration devices are all connecting devices.

When assembling a personal fall arrest system, it is important that all of the connecting devices are the correct choices. When selecting the proper connecting devices, consider the following tips:

- Limit the maximum possible arresting force on an employee to 1,800 pounds.
- Employees should not be able to fall more than 6 feet or contact a lower level before being caught.
- Deceleration devices should not extend more than 3 ½ feet.
- Snaphooks must lock and not be able to disengage from any other connecting device of the system.

