

## Tool Box Talk-Fall Protection Clearance Distance

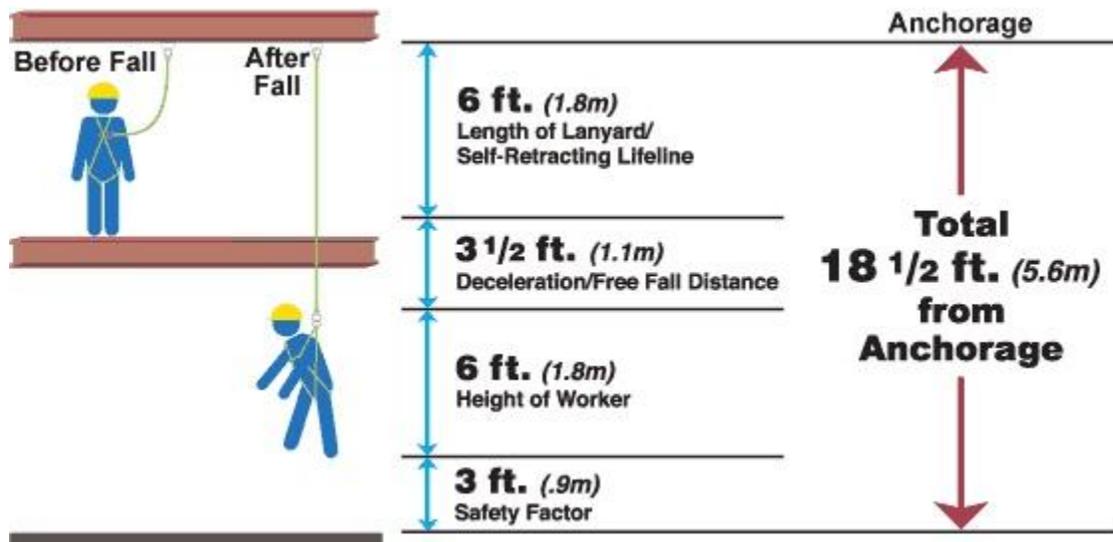
### Calculating PFAS Clearance Distance

Personal Fall Arrest Systems (PFAS) must be used in accordance with the following OSHA requirements:

*OSHA Construction Standard 1926.501 (b)(1) "Each employee on a walking/working surface (horizontal and vertical surface) with an unprotected side or edge which is 6 feet (1.8 m) 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."*

*OSHA Construction Standard 1926.502 (d)(16) "Personal fall arrest systems, when stopping a fall, shall: limit maximum arresting force on an employee to 1,800 pounds when used with a body harness; be rigged such that an employee can neither free fall more than 6 feet, nor contact any lower level; bring an employee to a complete stop and limit maximum deceleration distance an employee travels to 3.5 feet; and, have sufficient strength to withstand twice the potential impact energy of an employee free falling a distance of 6 feet, or the free fall distance permitted by the system, whichever is less."*

It is important that employees be trained in calculating PFAS clearance distance. In the event of a fall it is important to ensure that the worker will not free fall more than 6 feet. Free falling more than 6 feet has broken workers necks from impact force. If workers contact lower levels the PFAS is useless. Use a deceleration device to ensure forces do not exceed 1,800 pounds. Use this chart from when calculating PFAS clearance distance.



**Questions to start discussion:**

- 1) What could happen if you free fall more than 6 feet?
- 2) How do you know if you will contact a lower level in the event of a fall?
- 3) How do you calculate clearance distance when the anchor is at my feet?

*Photo Courtesy of: <https://www.millerfallprotection.com/smart-solutions/connecting-devices/calculating-fall-clearance-3>*

This toolbox topic was reviewed by \_\_\_\_\_ on  
\_\_\_\_\_ with the following employees: