







Fall Protection

Susan Harwood Grant Training Program 2019 Concrete Fall Protection





- Understand the OSHA requirements for fall protection during concrete operations
- Identify best practices for protecting workers from falls performing concrete operations



Rebar Protection





Caps can pop

2x4 mount cap



OK

- Caps must protect from injury, especially impalement.
- Mushroom caps are not allowed on low vertical bars.





Potential Rebar Impalement





- Workers must be prevented from falling onto vertical rebar.
- Rebar must be protected from potential impalement.



Multiple Rebar Shields





• Shields can be effective.



 Rebar spacing and mounting of supports must meet manufacturers requirements



Boxing Column Dowels



 Boxes are constructed on 2nd floor and carried floor to floor







Working on Rebar Wall Cages

 Workers must be protected above 6 feet when working on ALL rebar assemblies







Fall Protection on Vertical Forms





- Workers must be protected when 6' or higher.
- They must position off before working on column and wall forms.
- If the vertical form is near an edge, the employee must establish fall protection before he climbs the form.







- These are good examples of a form scaffolds with proper guardrails.
- This access bridge must be at least 18" wide. The bridge should be protected if there is a fall hazard of over 6 feet.







Construction of Shored Forming

- Employees are exposed to major falls while constructing form work around perimeter columns.
- Workers must utilize fall protection
- This worker is tied off to column behind the edge.









- Workers who must work at open edges more than 6 feet above lower levels must tie off as these employees are doing.
- They can tie to pre-set anchors, the columns behind or other suitable anchorages.







Column Forms



- Fall hazards?
- Scaffolds or lifts help reduce fall exposures.











- Safety straps are effective, simple anchors in concrete construction.
- They slip over rebar and are then embedded in the concrete.









Install Proper Guards









Potential Trip Hazards



- There are potential trip hazards on reinforced floors.
- Temporary walkways are a good hazard control.







Protection During the Pour





 Floor perimeters must be fully protected by proper guardrails and all holes must be covered



Pre-Cast Concrete Erection Controlled Access Zones



- Employees may work in a CAZ under a qualified fall plan when it can be shown that standard fall protection is infeasible.
- Plan must be site specific.
- All employees must be trained in the safe erection of pre-cast concrete.
- A safety monitor must oversee the fall safety.
- Warning lines must be set along the edges and guardrails installed as soon as possible.







• Do not allow workers to walk beams without proper fall protection





Setting & Receiving Planks



- Approach the plank when it is waist high.
- Restraint should always be used.
- The Safety Monitor oversees the safety of the setting process if working under a plan.









- Warning lines should protect all perimeters during setting operations.
- Workers can only be outside perimeters when setting precast under a properly established plan



Guardrails should be installed as soon as possible.