Job hazard analysis (JHA): Rebar placement

Task: Rebar placement	**Site or job:**
Crew:	**Date:**
Supervisor:	

No.	Job step	Hazard	Controls (most effective first)
1	Plan the placement and receive the delivery	Bundle slips or swings while being unloaded	**Eliminate:** Have bars delivered cut and bent to shape, and bundled for the crane, to cut down on handling on site. **Engineering control:** Inspect the rigging used to hoist bundles before use on each shift, and remove any defective rigging from service. (29 CFR 1926.251(a)(1)) **Administrative control:** Keep workers out from under the load and use tag lines to steer it. **PPE:** Wear gloves, a hard hat and safety-toe boots at the delivery.
2	Stage the bundles	Stacks shift, roll or collapse	**Engineering control:** Stack, block, interlock or otherwise secure materials stored in tiers to prevent sliding, falling or collapse. (29 CFR 1926.250(a)(1)) **Engineering control:** Inside a building under construction, keep stored bars at least 6 feet from hoistways and floor openings, and 10 feet from an exterior wall that does not extend above the stack. (29 CFR 1926.250(b)(1)) **Administrative control:** Stage bars close to where they will be placed so crews do not carry them far.
3	Cut and bend the bars	Cuts, flying pieces and tool hazards	**Engineering control:** Use powered bar cutters and benders with their guards in place when the tool is designed to take guards. (29 CFR 1926.300(b)(1)) **Administrative control:** Keep hand and power tools in safe condition. **Administrative control:** Use double-insulated or properly grounded electric tools. (29 CFR 1926.302(a)(1)) **PPE:** Wear eye protection when cutting or bending. (29 CFR 1926.102(a)(1))
4	Carry and set the bars	Back strain, hand cuts and strains	**Substitute:** Use two-person carries, a cart or a lift assist for long or heavy bars. **Administrative control:** Plan a clear path and keep rebar from being dragged across other trades. **PPE:** Wear the protective equipment the hazards call for, such as cut-resistant gloves, long sleeves and safety-toe boots. (29 CFR 1926.95(a))

No.	Job step	Hazard	Controls (most effective first)
5	Carry and set the bars	Falls from a bar mat or form edge	**Engineering control:** Provide fall protection for employees on the face of formwork or reinforcing steel 6 feet or more above a lower level. (29 CFR 1926.501(b)(5)) **Administrative control:** Lay planks or a walkway over mats so crews do not walk on top of the bars. **PPE:** Use a personal fall arrest system, safety net or positioning device system where the face of the formwork or rebar is 6 feet or more above a lower level. (29 CFR 1926.501(b)(5))
6	Tie the bars	Repetitive strain from stooping and twisting tying tools	**Substitute:** Use a powered rebar tying tool or a long-handled tool to reduce bending. **Administrative control:** Rotate tasks and take stretch breaks. **PPE:** Wear padded gloves and knee protection.
7	Cap and guard the ends	Falling on protruding bars	**Engineering control:** Guard all protruding reinforcing steel onto and into which employees could fall, so impalement is eliminated. (29 CFR 1926.701(b)) **Engineering control:** Use impact-rated rebar caps or wooden troughs over the ends, and replace damaged caps. **Administrative control:** Check every cap before the crew works above the bars.
8	Coordinate with the pour and clean up	Loose bars and tie wire become trip hazards	**Administrative control:** Clear scrap, tie wire and trimmings from the work area. **Administrative control:** Verify cover, spacing and ties with the inspector before concrete placement, and keep the mats protected from the pump hose.

Required PPE

- Cut-resistant gloves (29 CFR 1926.95(a))
- Hard hat (29 CFR 1926.100(a))
- Safety glasses (29 CFR 1926.102(a)(1))
- Safety-toe boots
- Long sleeves
- Knee pads

OSHA sections

29 CFR 1926.251 Rigging equipment for material handling; 29 CFR 1926.250 General requirements for storage; 29 CFR 1926.300 General requirements; 29 CFR 1926.302 Power-operated hand tools; 29 CFR 1926.102 Eye and face protection; 29 CFR 1926.95 Criteria for personal protective equipment; 29 CFR 1926.501 Duty to have fall protection; 29 CFR 1926.701 General requirements; 29 CFR 1926.100 Head protection

Reviewed with the crew. Names and signatures

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