Job hazard analysis (JHA): Roofing

Task: Roofing	**Site or job:**
Crew:	**Date:**
Supervisor:	

No.	Job step	Hazard	Controls (most effective first)
1	Plan the roof work and fall protection	No plan for edges, holes and anchor points	**Eliminate:** Do work from the ground or a lift where possible, such as prefabricating or staging materials off the roof. **Engineering control:** On steep roofs, use guardrails with toeboards, safety nets or a personal fall arrest system. (29 CFR 1926.501(b)(11)) **Administrative control:** Write a site-specific fall protection plan and walk the roof for edges, skylights, vents and weak decking. **Administrative control:** Train every worker on the fall hazards and the systems in use before the first climb. (29 CFR 1926.503(a)(1))
2	Get on and off the roof	Falling from the ladder or at the roof edge	**Engineering control:** Extend the ladder rails at least 3 feet above the eave. Tie the top off as good practice. (29 CFR 1926.1053(b)(1)) **Engineering control:** Use a scaffold stair tower or lift for steep or tall roofs. **Administrative control:** Keep the ladder area clear of tools and debris. (29 CFR 1926.1053(b)(9)) **PPE:** Wear boots with soles that grip when wet or dusty.
3	Install edge protection and anchors	Fall from an unprotected edge	**Engineering control:** Erect a guardrail with a top rail 42 inches high, plus or minus 3 inches, where the plan calls for it. (29 CFR 1926.502(b)(1)) **Engineering control:** On a low-slope roof, erect a warning line not less than 6 feet from the edge when no mechanical equipment is in use. (29 CFR 1926.502(f)(1)(i)) **Engineering control:** Install anchors that are independent of anything holding up a platform and strong enough for the system. (29 CFR 1926.502(d)(15)) **PPE:** Wear a full-body harness, rigged so you cannot free fall more than 6 feet or hit a lower level. (29 CFR 1926.502(d)(16)(iii))
4	Cover holes and skylights	Falling through a skylight, vent or deck opening	**Engineering control:** Cover or guard each hole, including skylights, that is more than 6 feet above a lower level. (29 CFR 1926.501(b)(4)(i)) **Engineering control:** Secure covers so wind, equipment and workers cannot displace them. (29 CFR 1926.502(i)(3)) **Engineering control:** Mark covers with the word HOLE or COVER or color code them. (29 CFR 1926.502(i)(4)) **Administrative control:** Tell the whole crew where covers are before work starts.

No.	Job step	Hazard	Controls (most effective first)
5	Hoist and stage materials	Struck by falling material or overloaded roof	**Engineering control:** Use a conveyor or hoist so crew do not carry bundles up a ladder. **Administrative control:** Place bundles over framing, spread them out and keep them away from edges. **Administrative control:** Use or store mechanical equipment on the roof only in areas protected by a warning line, guardrail or personal fall arrest system. (29 CFR 1926.502(f)(4)) **Administrative control:** Barricade the area below and use a spotter on the ground. **PPE:** Wear hard hats on the ground and gloves when handling.
6	Tear off and install roofing	Slip, trip and nail gun or knife injuries	**Substitute:** Use a roofing system or tool with fewer cuts and sharp edges where available. **Administrative control:** Sweep debris often and keep hoses and cords out of walkways. **Administrative control:** Keep the safety tip engaged and fingers off triggers when moving. **PPE:** Wear cut-resistant gloves, safety glasses and hearing protection.
7	Tear off and install roofing	Heat exhaustion on the roof surface	**Administrative control:** Schedule hard work early, provide water and shade, and rotate the crew. **PPE:** Wear light, breathable clothing and sun protection.
8	Clean up and take down protection	Debris, loose fasteners and removing protection too early	**Administrative control:** Magnet-sweep fasteners, bag debris and lower it by chute, not by tossing. **Administrative control:** Take down guardrails and warning lines last, only after the final walk with the competent person.

Required PPE

- Hard hat
- Full-body harness and lanyard where a personal fall arrest system is used (29 CFR 1926.501(b)(11))
- Safety glasses
- Gloves
- Slip-resistant boots
- Sun protection

OSHA sections

29 CFR 1926.501 Duty to have fall protection; 29 CFR 1926.503 Training requirements; 29 CFR 1926.1053 Ladders; 29 CFR 1926.502 Fall protection systems criteria and practices

Reviewed with the crew. Names and signatures

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