JOB HAZARD ANALYSIS (JHA)

Business name

Document: JHA-001 Rev 1
Prepared: Nov 9, 2026
Review by: Dec 9, 2026
Highest risk after controls: Medium

1. BUSINESS AND JOB DETAILS

Job	Install smoke detectors	**Start date**	Nov 9, 2026
Working hours	7:00 am to 3:30 pm	**Trade**	Electrical

2. JOB STEPS, HAZARDS AND CONTROLS

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
1	Plan alarm locations and let the occupants know	Working in an occupied home or building	**Medium Possible / Recordable / lost time**	1.1 Plan noisy, dusty or risky work for when the building is empty. [Elimination] 1.2 Close off the work area with barriers, plastic sheeting or locked doors, and put up signs. [Engineering (guarding)] 1.3 Keep fire exits and paths clear at all times. [Administrative] 1.4 Tell occupants before you turn off power, water or gas, and before noisy or dusty work. [Administrative] 1.5 Lock away tools, chemicals and materials each day, out of reach of children. [Administrative] 1.6 Clean up dust and debris at the end of each day. [Administrative]	**Low Rare / Recordable / lost time**	Site supervisor
2	Isolate the circuit for hard wired alarms, apply lockout/tagout and prove dead	Electric shock from live wiring Rules: 29 CFR 1926 Subpart K	**Critical Possible / Fatality**	2.1 Isolate the power before any work. Do not work live. [Elimination] 2.2 Lock out and tag the disconnecting means with your own personal lock and tag so the circuit cannot be energized (29 CFR 1926.417). [Engineering (guarding)] 2.3 Test before you touch: prove dead at the point of work with a tested voltage tester. [Engineering] 2.4 Only qualified persons work on or near exposed energized parts. [Administrative] 2.5 Check for back feeds from solar, batteries and generators that can keep a circuit live after the main switch is off. [Administrative] 2.6 If energized work cannot be avoided, use an energized work permit, a safety observer and insulated tools, following NFPA 70E. [Administrative] 2.7 Wear insulated gloves, arc-rated clothing and a face shield when testing or working near live parts. [PPE]	**Medium Rare / Fatality**	Site supervisor
3	Set up a platform ladder and cut ceiling holes, wearing glasses and a dust mask	Falling from a ladder General dust Eye injuries	**High Possible / Serious injury**	3.1 Use a platform ladder, mobile scaffold or aerial lift for longer jobs instead of a straight ladder. [Substitution] 3.2 Use Type I, IA or IAA ladders in good condition. Tag and remove any damaged ladder. [Engineering]	**Medium Unlikely / Serious injury**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
		Rules: 29 CFR 1926 Subpart X		3.3 Set extension ladders at a 4 to 1 angle on firm, level ground, secured, and reaching 3 feet above the landing. [Engineering] 3.4 Use ladders only for short, light work. Do not carry heavy or awkward loads up a ladder. [Administrative] 3.5 Keep three points of contact and your belt buckle between the stiles. Do not overreach. [Administrative] 3.6 Use low-dust products, such as dust-reduced or pre-mixed compounds. [Substitution] 3.7 Seal off the work area with plastic sheeting in occupied buildings. [Engineering (guarding)] 3.8 Use tools with dust extraction and a vacuum for clean up. [Engineering] 3.9 Lightly mist the area with water to keep dust down, away from anything electrical. [Engineering] 3.10 Never dry sweep or blow dust off with compressed air. [Administrative] 3.11 Use tool guards and screens to stop flying particles. [Engineering] 3.12 Use dust extraction and water to keep dust out of the air. [Engineering] 3.13 Keep others out of the area when cutting, grinding or chipping. [Administrative] 3.14 Keep an eye wash station or eye wash bottles on site. [Administrative] 3.15 Wear safety glasses at all times, goggles for dust and chemicals, and a face shield for grinding. [PPE]		
4	Run cable in the ceiling space, staying on joists	Falling through a floor opening or void Heat stress Rules: 29 CFR 1926 Subpart M; OSH Act Section 5(a)(1) General Duty Clause; state heat rules where they apply (Cal/OSHA T8 3395, WA WAC 296-62-095, OR OAR 437-002-0156, MD COMAR 09.12.32)	**Critical Possible / Fatality**	4.1 Cover every hole with a secured cover marked "HOLE" or "COVER" that can hold twice the weight it may carry. [Engineering (guarding)] 4.2 Put guardrails with toe boards around stairwells, elevator shafts, floor holes and open edges. [Engineering (guarding)] 4.3 Install stairs early and fit temporary handrails as soon as they go in. [Engineering] 4.4 Never remove a cover or guardrail without approval. Put it back straight away. [Administrative] 4.5 Inspect covers and barriers daily and after other trades have been through. [Administrative] 4.6 Keep lighting good enough to see openings, especially on lower floors and in the evening. [Administrative] 4.7 Use a harness clipped to a rated anchor when working right next to an open void. [PPE] 4.8 Schedule heavy work for the cooler part of the day. [Elimination] 4.9 Provide shade over work and rest areas, and fans or cooling in attics. [Engineering] 4.10 Supply cool drinking water close by and drink a cup every 15 to 20 minutes. [Administrative] 4.11 Take regular rest breaks in the shade, more often as it	**Medium Unlikely / Serious injury**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
				gets hotter. [Administrative] 4.12 Let new and returning workers build up to full work in the heat over about a week. [Administrative] 4.13 Watch each other for dizziness, headache, confusion or stopping sweating. Stop work, cool down and get help. [Administrative] 4.14 Have a hot weather plan, including when work stops. [Administrative] 4.15 In California, Washington, Oregon and Maryland, follow the state heat illness rule: written plan, shade, water, rest and high-heat procedures. [Administrative] 4.16 Wear light, loose, long-sleeved clothing, a hat or brim, and sunscreen. [PPE]		
5	Connect and test every alarm, then clean up	Electric shock from live wiring Poor housekeeping and waste Rules: 29 CFR 1926 Subpart K	**Critical Possible / Fatality**	5.1 Electric shock from live wiring: see step 2 for the full controls [Administrative] 5.2 Order materials to size and send packaging back where you can. [Elimination] 5.3 Put dumpsters and waste chutes close to the work. [Engineering] 5.4 Clean as you go, and do a full clean up at the end of each day. [Administrative] 5.5 Keep exits, stairs and walkways clear at all times. [Administrative] 5.6 Stack materials neatly on level ground, away from edges. [Administrative] 5.7 Wear gloves when handling waste. [PPE]	**Medium Rare / Fatality**	Site supervisor

Risk key: risk = likelihood x consequence on a 5 x 5 matrix. Low, Medium, High, Critical. Work must not start while the risk after controls is high or above. Controls are listed in order of the hierarchy of controls: Elimination, Substitution, Engineering (guarding), Engineering, Administrative, PPE.

3. PPE AND PERMITS

Required PPE	Permits and plans
Safety-toe boots (ASTM F2413) Safety glasses (ANSI Z87.1) N95 respirator Rubber insulating gloves Arc flash PPE (NFPA 70E) Hard hat (ANSI Z89.1) Safety goggles (ANSI Z87.1) Face shield (ANSI Z87.1) Sun protection (sunscreen, hat, long sleeves) Work gloves	Lockout/tagout (1926.417)

4. PLANT AND EQUIPMENT

Plant / equipment	License or training needed	Inspection needed	Rego / ID	Last inspected	Certificate / report
Platform ladder		Inspected by a competent person for visible defects periodically and after any event that could affect safe use (29 CFR 1926.1053(b)(15))			
Power drill		Visual check of cord, plug and guards before each day's use; if you run an assured equipment grounding program instead of GFCIs, test every 3 months (29 CFR 1926.404(b)(1))			
Electrical test meter		Rated for the voltage and category (CAT III or IV), inspected before each use, and checked on a known source before and after testing (NFPA 70E)			
Hand tools					

5. TRAINING REQUIRED FOR THIS WORK

- Qualified person training for work on or near exposed energized parts (29 CFR 1926.416, NFPA 70E)
- Ladder safety training by a competent person (29 CFR 1926.1060)
- Fall protection training by a competent person, with a written certification record (29 CFR 1926.503)

6. CREW TRAINING AND CERTIFICATIONS

Crew listed at sign-on below, with ticket and licence numbers.

7. EMERGENCY ARRANGEMENTS

Emergency number	911	**First aid kit**	In the work vehicle
Fire extinguisher	In the work vehicle	**Alarm and evacuation**	Shout for help and stop work. Make the area safe and go to the assembly point. Call the emergency number and send someone to meet the ambulance.
Reporting incidents	Report a fatality to OSHA within 8 hours, and an in-patient hospitalization, amputation or eye loss within 24 hours.		

8. MONITORING, REVIEW AND LEGAL BASIS

A competent person inspects the job site, materials and equipment before work each day and as conditions change (29 CFR 1926.20(b)(2)). Any time this JHA is revised, the affected crew is re-briefed and signs again.

Legal basis: OSH Act Section 5(a)(1) and 29 CFR 1926, Safety and Health Regulations for Construction (incl. 1926.20 and 1926.21). OSHA requires employers to find and fix hazards and to train workers on them. A JHA breaks the job into steps, lists the hazards in each step and the controls that protect the crew. General contractors often require one before you start.

Keep this JHA on site during the job, and keep it with the training and inspection records for at least 1 year after the job (longer if your state plan or general contractor requires it). OSHA does not set a retention period for JHAs themselves.

9. REVISION HISTORY

Rev	Date	By	What changed
1	Nov 9, 2026		First issue

10. SIGN-OFF

	Name	Signature	Date	
Prepared by				
Supervisor				
General contractor review				Accepted for use: Yes / No

By signing below, each crew member confirms they were trained on the hazards and controls in this JHA before work started, and will follow it. Stop work and tell the supervisor if conditions change.

Name	Role / company	Tickets / licences	Signature	Date

Name	Role / company	Tickets / licences	Signature	Date