



BOISE STATE UNIVERSITY
ENVIRONMENTAL HEALTH, SAFETY
AND SUSTAINABILITY

Electrical Safety

[Idaho Division of Building Safety](#)
General Health and Safety Standards 150
[OSHA 1910.1030](#)

Revision, July 15, 2015

The facility will have an Electrical Safety Assessment inspection performed every three years by a licensed electrician or a qualified electrical engineer. The following checklist will be used and completed during the inspection and given to the facilities maintenance manager the completion of the inspection. Items from the checklist that need repaired will be assigned to be repaired or brought up to standard by the qualified electrical worker for the area where the item is located.

Electrical Safety Assessment Checklist

Please note that this document is intended to provide an initial snapshot of a site's electrical safety activities.

It is not intended to be an all-inclusive checklist for compliance with Electrical Regulations.

		Y	N	N/A	Comments
	<u>Equipment</u>				
1.	Is the manufacturer's data plate on equipment? 1910.303(e)				
2.	Are all electrical disconnects and circuit breakers labeled to indicate; Voltage (as necessary) and, Equipment controlled (required). E.g. 480 volts, Motor No. 1. 1910.303(e & f)				
3.	Is non-portable electrical equipment permanently wired with wires in conduit? (Exception: equipment that moves more frequently than 30 to 60 days and requires flexible wiring)? 1910.305(a)(1) 1910.308(a)(1)				
4.	Is all portable electrical equipment with power cords and plugs in good repair? 1910.334(a)(2)(ii)				
5.	Are there any broken conduit, missing conduit junction box caps or covers, conduit pulled away from junctions, etc.? 1910.303(b)(1)				
6.	Are all ground conductors color-coded according to the National Electric Code? (CSA in Canada) 1910.305(f)				



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7.	Are all electrical wires in conduit if they pass through walls, floor openings, or within walls and floors? 1910.305(a)(4)(iv)				
8.	Temporary wiring. Are flexible cords and wiring protected from: Sharp corners & projections, and Where passing through doorways and other pinch points. Note: Passing temporary wiring through doorways is discouraged. 1910.305(a)(2)(iii)(G) .				
9.	Are electrical cabinets and panels kept closed and secured with all of the supplied fasteners? 1910.303(g)(2)(i)				
10.	Are doors to electric rooms, and motor control centers containing exposed live parts or conductors kept locked and open outward with panic hardware? (Unless under the observation of a qualified person at all times) 1910.303(h)(2)				
11.	Are there any exposed electrical wires or access points to conductors? (E.g. open knockouts, missing breakers, etc.)				
12.	Are barricades and safety signs used to prevent or limit employee access to work areas with un-insulated energized electrical equipment? 1910.335(b)(2)				



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13.	Does the site have an assured grounding program for extension cords? NEC 527.6(b)(2), and NFPA 70E, 2-2.4.2.2.2				
14.	Are doors to electrical rooms containing live parts that are not enclosed within grounded, metal-enclosed equipment - labeled to indicate "access only by authorized persons?" 1910.303(g)(2)(iii) and 1910.269(u)(4)				
15.	Is correct Personal Protective Equipment (PPE) being used when working on energized equipment/circuit parts? 1910.335(a)(2)(ii) NFPA 70E, Table 3-3.9.2.				
16.	Is work on energized electrical parts conducted only after confirming that de-energizing: a) Creates additional hazards, or b) Is in feasible due to equipment design or operational limitations. 1910.333(a)(1)				
17.	Are insulated tools or handling equipment (rated for voltage) used when working on energized equipment or parts? 1910.335(a)(2)(i)				
18.	When circuit breakers trip, are safety checks conducted to determine what caused the trip, prior to manually re-energizing the equipment? 1910.334(b)(2)				
19.	Are minimum working clearances maintained to permit safe operation and maintenance of electrical equipment with exposed energized parts? See tables (attached): S-1, 1910.303(g)(1)(i).				



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	S-2, 1910.303(h)(3)(i) and S-3, 1910.303(h)(3)(iii)				
20.	Are electrical panel working clearances maintained? Marking of the floor in front of the service panel? Condition (1) 0-600 V 36" clearance from the panel and 30" wide or the width of the panel. Condition (2) 0-150-V 36" clearance from the panel and 30" wide or the width of the panel, whichever is greater. 151-600V 42" clearance from the panel and 30: wide or the width of the panel, whichever is greater.				
21.	Is the location of all underground electrical power lines and cables determined before digging, drilling or other similar work? 1926.416(a)(3)				
22.	Are employees prohibited from working alone when performing specific tasks on energized lines or equipment over 600 volts? Example: Installation, removal or repair of equipment that exposes the employee to contact with energized parts. 1910.269(l)(1)(i)				
23.	Are employees who are exposed to the hazards of electric arcs, prohibited from wearing clothing made from the following types of material; Acetate, Rayon, nylon, Polyester? 1910.269(l)(6)(iii)				



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		Y	N	N/A	Comments
	Training:				
24.	<u>Are qualified individuals identified and trained as required by:</u> <u>1910.269(a)(2)(ii)</u> 1910.331 , 1910.332 , 1910.333 , 1910.334 , 1910.335 , and NFPA 70E, 2000 edition.				
25.	Are authorized individuals identified and trained as required by: 1910.269(a)(2)(i)				