

Electrical Systems – General Requirements

Audited by:

Check the box under Y for “yes” or N for “no” to determine if each item is within compliance.

- ☐ ☐ 1. Is electric equipment free from recognized hazards that are likely to cause death or serious physical harm to employees? 1910.303(b)(1)
- ☐ ☐ 2. Is listed or labeled equipment installed and used in accordance with any instructions included in the listing or labeling? 1910.303(b)(2)
- ☐ ☐ 3. Are completed wiring installations free from short circuits and from grounds? 1910.303(b)(3)
- ☐ ☐ 4. Does equipment intended to interrupt current at fault levels have an interrupting rating sufficient for the nominal circuit voltage and the current that is available at the line terminals of the equipment? 1910.303(b)(4)
- ☐ ☐ 5. Does equipment intended to interrupt current at other than fault levels have an interrupting rating at nominal circuit voltage sufficient for the current that must be interrupted? 1910.303(b)(4)
- ☐ ☐ 6. Unless identified for use in the operating environment, are no conductors or equipment located in damp or wet locations, where exposed to gases, fumes, vapors, liquids, or other agents that have a deteriorating effect on the conductors or equipment or where exposed to excessive temperatures? 1910.303(b)(6)
- ☐ ☐ 7. Is electric equipment installed in a neat and workmanlike manner? 1910.303(b)(7)
- ☐ ☐ 8. Are unused openings in boxes, raceways, auxiliary gutters, cabinets, equipment cases, or housings effectively closed to afford protection substantially equivalent to the wall of the equipment? 1910.303(b)(7)(i)
- ☐ ☐ 9. Are conductors racked to provide ready and safe access in underground and subsurface enclosures that persons enter for installation and maintenance? 1910.303(b)(7)(ii)
- ☐ ☐ 10. Is electric equipment firmly secured to the surface on which it is mounted? 1910.303(b)(8)(i)

- ☐ ☐ 11. Are internal parts of electrical equipment, including busbars, wiring terminals, insulators, and other surfaces, not damaged or contaminated by foreign materials such as paint, plaster, cleaners, abrasive, or corrosive residues? 1910.303(b)(7)(iii)
- ☐ ☐ 12. Are there no damaged parts that may adversely affect safe operation or mechanical strength of the equipment, such as parts that are broken, bent, cut, or deteriorated by corrosion, chemical action, or overheating? 1910.303(b)(7)(iv)
- ☐ ☐ 13. Is electric equipment that depends on the natural circulation of air and convection principles for cooling of exposed surfaces installed so that room airflow over such surfaces is not prevented by walls or by adjacent installed equipment?
1910.303(b)(8)(ii)
- ☐ ☐ 14. For equipment designed for floor mounting, is clearance between top surfaces and adjacent surfaces provided to dissipate rising warm air? 1910.303(b)(8)(ii)
- ☐ ☐ 15. Is electric equipment provided with ventilating openings installed so that walls or other obstructions do not prevent the free circulation of air through the equipment?
1910.303(b)(8)(iii)

- ☐ ☐ 16. Are devices such as pressure terminal or pressure splicing connectors and soldering lugs identified for the material of the conductor and properly installed and used?
1910.303(c)(1)(i)
- ☐ ☐ 17. Are conductors of dissimilar metal not intermixed in a terminal or splicing connector where physical contact occurs between dissimilar conductors (such as copper and aluminum, copper and copper-clad aluminum, or aluminum and copper-clad aluminum) unless the device is identified for the purpose and conditions of use?
1910.303(c)(1)(ii)

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Y N Marking

- ☐ ☐ 27. Is electric equipment not used unless marked with the manufacturer's name, trademark, or other descriptive marking by which the organization responsible for the product may be identified and other markings giving voltage, current, wattage, or other ratings as necessary?
1910.303(e)(1)(ii)
- ☐ ☐ 28. Is the marking of sufficient durability to withstand the environment involved?
1910.303(e)(2)
- ☐ ☐ 29. Is each disconnecting means for motors and appliances legibly marked to indicate its purpose, unless located and arranged so the purpose is evident? 1910.303(f)(1)
- ☐ ☐ 30. Is each service, feeder, and branch circuit, at its disconnecting means or overcurrent device, legibly marked to indicate its purpose, unless located and arranged so the purpose is evident? 1910.303(f)(2)
- ☐ ☐ 31. Is each disconnecting mean capable of being locked in the open position?
1910.303(f)(4)
- ☐ ☐ 32. Where circuit breakers or fuses are applied in compliance with the series combination ratings marked on the equipment by the manufacturer, are the equipment enclosures legibly marked in the field to indicate that the equipment has been applied with a series combination rating?
1910.303(f)(5)(i)
- ☐ ☐ 33. Is the marking readily visible and does it state "Caution -- Series Combination System Rated ____Amperes. Identified Replacement Component Required?"
1910.303(f)(5)(ii)

600 volts or less

- ☐ ☐ 34. Is there sufficient access and working space provided and maintained about all electric equipment to permit ready and safe operation and maintenance of such equipment? 1910.303(g)(1)

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- ☐ ☐ 44. For equipment rated 1200 amperes or more and over 1.83 m (6.0 ft) wide, containing overcurrent devices, switching devices, or control devices, is there one entrance not less than 610 mm (24 in.) wide and 1.98 m (6.5 ft) high at each end of the working space, except where the location permits a continuous and unobstructed way of exit travel, one means of exit is permitted? 1910.303(g)(1)(iv) & (g)(1)(iv)(A)
- ☐ ☐ 45. For equipment rated 1200 amperes or more and over 1.83 m (6.0 ft) wide, containing overcurrent devices, switching devices, or control devices, is there one entrance not less than 610 mm (24 in.) wide and 1.98 m (6.5 ft) high at each end of the working space? (Exception: Where the working space is doubled, only one entrance to the working space is required, however, the entrance must be located so that the edge of the entrance nearest the equipment is the minimum clear distance given in Table S-1 away from such equipment.) 1910.303(g)(1)(iv) & (g)(1)(iv)(B)
- ☐ ☐ 46. Is illumination provided for all working spaces about service equipment, switchboards, panelboards, and motor control centers installed indoors? 1910.303(g)(1)(v)
- ☐ ☐ 47. In electric equipment rooms, is the illumination by a means other than only automatic means? 1910.303(g)(1)(v)
- ☐ ☐ 48. Is the minimum headroom of working spaces about service equipment, switchboards, panelboards, or motor control centers for installations built before August 13, 2007, 1.91 m (6.25 ft)? 1910.303(g)(1)(vi)(A)
- ☐ ☐ 49. Are sitchboards, panelboards, and distribution boards installed for the control of light and power circuits, and motor control centers located in dedicated spaces and protected from damage? 1910.303(g)(1)(vii)

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- ☐ ☐ 57. Are live parts of electric equipment operating at 50 volts or more guarded against accidental contact by use of approved cabinets or other forms of approved enclosures or by location in a room, vault, or similar enclosure that is accessible only to qualified persons, by suitable permanent, substantial partitions or screens arranged so that only qualified persons will have access to the space within reach of the live parts, by placement on a suitable balcony, gallery, or platform so elevated and otherwise located as to prevent access by unqualified persons or by elevation of 2.44 m (8.0 ft) or more above the floor or other working surface? 1910.303(g)(2)(i)(A), (g)(2)(i)(B), (g)(2)(i)(C) & (g)(2)(i)(D)
- ☐ ☐ 58. In locations where electric equipment is likely to be exposed to physical damage, are enclosures or guards arranged and strong enough to prevent such damage? 1910.303(g)(2)(ii)
- ☐ ☐ 59. Are entrances to rooms and other guarded locations containing exposed live parts marked with conspicuous warning signs forbidding unqualified persons to enter? 1910.303(g)(2)(iii)

- ☐ ☐ 60. Are electrical installations in a vault, room, or closet or in an area surrounded by a wall, screen, or fence, access to which is controlled by lock and key or other approved means, considered to be accessible to qualified persons only? 1910.303(h)(2)(i)
- ☐ ☐ 61. For installations other than outdoor enclosed equipment accessible to unqualified employees, is a wall, screen, or fence used to enclose an outdoor electrical installation to deter access by persons who are not qualified? 1910.303(h)(2)(ii)

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- ☐ ☐ 62. Are fences not less than 2.13 m (7.0 ft) in height or made of a combination of 1.80 m (6.0 ft) or more of fence fabric and a 305-mm (1-ft) or more extension utilizing three or more strands of barbed wire or equivalent? 1910.303(h)(2)(ii)
- ☐ ☐ 63. For indoor installations that are accessible to other than qualified persons, are the installations made with metal-enclosed equipment or enclosed in a vault or in an area to which access is controlled by a lock? 1910.303(h)(2)(iii)(A)
- ☐ ☐ 64. For indoor installations that are accessible to other than qualified persons, are metal-enclosed switchgear, unit substations, transformers, pull boxes, connection boxes, and other similar associated equipment marked with appropriate caution signs? 1910.303(h)(2)(iii)(B)
- ☐ ☐ 65. For indoor installations that are accessible to other than qualified persons, are openings in ventilated dry-type transformers and similar openings in other equipment designed so that foreign objects inserted through these openings will be deflected from energized parts? 1910.303(h)(2)(iii)(C)
- ☐ ☐ 66. Are outdoor electrical installations having exposed live parts accessible to qualified persons only? 1910.303(h)(2)(iv)
- ☐ ☐ 67. For outdoor enclosed equipment accessible to unqualified employees, are ventilating or similar openings in equipment designed that foreign objects inserted through these openings will be deflected from energized parts? 1910.303(h)(2)(v)(A)
- ☐ ☐ 68. For outdoor enclosed equipment accessible to unqualified employees, when exposed to physical damage from vehicular traffic, are suitable guards provided? 1910.303(h)(2)(v)(B)

- ☐ ☐ 69. Are nonmetallic or metal-enclosed equipment located outdoors and accessible to the general public designed so that exposed nuts or bolts cannot be readily removed, permitting access to live parts? 1910.303(h)(2)(v)(C)
- ☐ ☐ 70. Where nonmetallic or metal-enclosed equipment is accessible to the general public and the bottom of the enclosure is less than 2.44 m (8.0 ft) above the floor or grade level, is the enclosure door or hinged cover kept locked? 1910.303(h)(2)(v)(D)
- ☐ ☐ 71. Where nonmetallic or metal-enclosed equipment is accessible to the general public and the bottom of the enclosure is less than 2.44 m (8.0 ft) above the floor or grade level, is the enclosure door or hinged cover kept locked except for underground box covers that weigh over 45.4 kg (100 pounds), doors and covers of enclosures used solely as pull boxes, splice boxes, or junction boxes when locked, bolted, or screwed on? 1910.303(h)(2)(v)(E)
- ☐ ☐ 72. Is sufficient space provided and maintained about electric equipment to permit ready and safe operation and maintenance of such equipment? 1910.303(h)(3)
- ☐ ☐ 73. Where energized parts are exposed, is the minimum clear work space not less than 1.98 m (6.5 ft) high (measured vertically from the floor or platform) or less than 914 mm (3.0 ft) wide (measured parallel to the equipment)? 1910.303(h)(3)
- ☐ ☐ 74. Is the work space adequate to permit at least a 90-degree opening of doors or hinged panels? 1910.303(h)(3)
- ☐ ☐ 75. Is at least one entrance not less than 610 mm (24 in.) wide and 1.98 m (6.5 ft) high provided to give access to the working space about electric equipment? 1910.303(h)(4)(i)

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- ☐ ☐ 76. On switchboard and control panels exceeding 1.83 m (6.0 ft) in width, is there one entrance at each end of such boards unless the location of the switchboards and control panels permits a continuous and unobstructed way of exit travel, or unless the work space is doubled?
1910.303(h)(4)(i)(A)
- ☐ ☐ 77. Where one entrance to the working space is permitted, is the entrance located so that the edge of the entrance nearest the switchboards and control panels is at least the minimum clear distance given in Table S-2 away from such equipment?
1910.303(h)(4)(i)(B)
- ☐ ☐ 78. Where bare energized parts at any voltage or insulated energized parts above 600 volts, nominal, to ground are located adjacent to such entrance, are they suitably guarded? 1910.303(h)(4)(i)(C)
- ☐ ☐ 79. Are permanent ladders or stairways provided to give safe access to the working space around electric equipment installed on platforms, balconies, mezzanine floors, or in attic or roof rooms or spaces?
1910.303(h)(4)(ii)
- ☐ ☐ 80. Is the minimum clear working space in the direction of access to live parts of electric equipment not less than specified in Table S-2? 1910.303(h)(5)(i)
- ☐ ☐ 81. Are distances measured from the live parts, if they are exposed, or from the enclosure front or opening, if they are enclosed? 1910.303(h)(5)(i)
- ☐ ☐ 82. If switches, cutouts, or other equipment operating at 600 volts, nominal, or less, are installed in a room or enclosure where there are exposed live parts or exposed wiring operating at over 600 volts, nominal, is the high-voltage equipment effectively separated from the space occupied by the low-voltage equipment by a suitable partition, fence, or screen?
1910.303(h)(5)(ii)

- ☐ ☐ 83. Are switches or other equipment operating at 600 volts, nominal, or less, and serving only equipment within the high-voltage vault, room, or enclosure installed in the high-voltage enclosure, room, or vault if accessible to qualified persons only? 1910.303(h)(5)(ii)
- ☐ ☐ 84. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are the entrances kept locked unless they are under the observation of a qualified person at all times? 1910.303(h)(5)(iii)(A)
- ☐ ☐ 85. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are permanent and conspicuous warning signs provided, reading "DANGER -- HIGH VOLTAGE -- KEEP OUT?" 1910.303(h)(5)(iii)(B)
- ☐ ☐ 86. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, is illumination provided for all working spaces about electric equipment? 1910.303(h)(5)(iv)
- ☐ ☐ 87. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are the lighting outlets arranged so that persons changing lamps or making repairs on the lighting system will not be endangered by live parts or other equipment? 1910.303(h)(5)(iv)(A)
- ☐ ☐ 88. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are the points of control located so that persons are prevented from contacting any live part or moving part of the equipment while turning on the lights? 1910.303(h)(5)(iv)(B)

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- ☐ ☐ 89. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are unguarded live parts above working space maintained at elevations not less than specified in Table S-3? 1910.303(h)(5)(v)
- ☐ ☐ 90. For entrances to buildings, rooms, or enclosures containing exposed live parts or exposed conductors operating at over 600 volts, nominal, are pipes or ducts that are foreign to the electrical installation and that require periodic maintenance or whose malfunction would endanger the operation of the electrical system not located in the vicinity of service equipment, metal-enclosed power switchgear, or industrial control assemblies? 1910.303(h)(5)(vi)
- ☐ ☐ 91. Is protection provided where necessary to avoid damage from condensation leaks and breaks in such foreign systems? 1910.303(h)(5)(vi)

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