

**\*\*\* EXAMINATION \*\*\***

**OSHA STANDARDS -- ELECTRIC CODES**

- 1. Responsibility for keeping electrical equipment free**
  - a) from hazards is the employer's responsibility
  - b) from hazards is the employee's responsibility
  - c) from hazards is OSHA's responsibility
  - d) None of the above
  
- 2. Installation, interrupting rating, and mounting are all:**
  - a) OSHA procedures
  - b) OSHA inspections
  - c) safety considerations
  - d) None of the above
  
- 3. Arcing parts, marking, and cooling are all:**
  - a) OSHA procedures
  - b) OSHA inspections
  - c) safety considerations
  - d) HVAC design considerations
  
- 4. Normal front working space for a switchboard is:**
  - a) 2 feet
  - b) 3 feet
  - c) 4 feet
  - d) 5 feet
  
- 5. Minimum headroom for working spaces is:**
  - a) 2 feet
  - b) 3 feet
  - c) 4 feet
  - d) 6 feet 3 inches
  
- 6. Live parts of electric equipment shall be guarded**
  - a) if the voltage exceeds 30 volts
  - b) if the voltage exceeds 50 volts
  - c) if the voltage exceeds 110 volts
  - d) if the voltage exceeds 230 volts

7. **Live parts of electric equipment may be guarded by:**
  - a) elevating the equipment 8 feet or more
  - b) partitions
  - c) limited access rooms
  - d) Any of the above
  
8. **Concrete, brick, or tile as a part of a wall are considered**
  - a) to be grounded surfaces
  - b) to be construction materials for electric switch enclosures
  - c) to be suitable for encasing electrical cables
  - d) None of the above
  
9. **An assured equipment grounding conductor program includes:**
  - a) all equipment not available to employees
  - b) building receptacles
  - c) all cord sets
  - d) None of the above
  
10. **All equipment shall be tested:**
  - a) before first use
  - b) after repair
  - c) at intervals less than 3 months
  - d) All of the above
  
11. **All test reports on equipment shall include:**
  - a) each receptacle
  - b) each cord set
  - c) the date of the test
  - d) All of the above
  
12. **Outlet devices shall have an ampere rating of:**
  - a) 10
  - b) 20
  - c) either a or b
  - d) higher than the load to be served
  
13. **Open conductors shall have a clearance of:**
  - a) minimum 10 feet for pedestrians
  - b) minimum 20 feet for cars
  - c) minimum 30 feet for trucks
  - d) All of the above
  
14. **Conductors above the top level of a window shall have**
  - a) a clearance of 3 feet
  - b) a clearance of 4 feet
  - c) a clearance of 5 feet
  - d) None of the above

15. **Lamps for outdoor lighting shall be located:**
  - a) at the same height as the live conductors
  - b) below all live conductors
  - c) above all live conductors
  - d) Any of the above
16. **Circuit breakers shall clearly indicate whether they are:**
  - a) new or used
  - b) exceed 600 volts
  - c) on or off
  - d) None of the above
17. **Breakers in 120-volt, fluorescent lighting circuits,**
  - a) shall be marked 'Off'
  - b) shall be marked 'On'
  - c) shall be marked 'SWD'
  - d) shall be marked '120 volts'
18. **The grounding path from circuits shall be:**
  - a) indirect
  - b) permanent and continuous
  - c) not protected
  - d) All of the above
19. **Fixed equipment which may become energized shall be**
  - a) grounded when in electrical contact with metal
  - b) grounded when in a hazardous location
  - c) grounded when located in a wet location
  - d) All of the above
20. **A made electrode should be free from:**
  - a) paint
  - b) insulators
  - c) wire
  - d) None of the above
21. **Pole-mounted distribution apparatus do not need to be grounded**
  - a) if over 5 feet high
  - b) if over 8 feet high
  - c) if over 10 feet high
  - d) if over 15 feet high
22. **Upon completion of construction, temporary wiring should be**
  - a) removed within 2 days
  - b) removed within 7 days
  - c) removed immediately
  - d) None of the above

23. **Ducts used to transport dust may include wiring systems:**
- a) insulated with extra tape
  - b) insulated by at least one inch of styrofoam
  - c) insulated by fiber optic quality insulation
  - d) Never
24. **Portable electric lighting used in wet locations should be**
- a) operated at less than 12 volts
  - b) operated at less than 24 volts
  - c) operated at less than 36 volts
  - d) operated at less than 48 volts
25. **Flexible cords passing through doorways should be:**
- a) removed
  - b) protected from damage
  - c) raised to pass above all moving doors
  - d) None of the above
26. **Temporary wiring over 600 volts should be guarded to protect**
- a) from the public
  - b) from authorized personnel
  - c) from OSHA employees
  - d) from electrical construction inspectors
27. **The following should have covers:**
- a) pull boxes
  - b) junction boxes
  - c) fittings
  - d) All of the above
28. **Knife switches should open:**
- a) left to right
  - b) right to left
  - c) top to bottom
  - d) bottom to top
29. **A safety design consideration for conductors for**
- a) general wiring is voltage
  - b) general wiring is operating temperature
  - c) general wiring is location of use
  - d) All of the above
30. **The type of insulated conductors should be distinguished by:**
- a) size
  - b) width
  - c) color
  - d) length

31. **Cords passing through holes in outlet boxes should be**
- a) protected by electrical tape
  - b) protected by bushings
  - c) protected by piping
  - d) protected by fans
32. **All appliances shall be marked with:**
- a) its rating in volts and amperes
  - b) its rating in joules
  - c) its rating in amperes per external voltage
  - d) None of the above
33. **Transformers should be stored in a vault if operating at:**
- a) 15 kV or more
  - b) 25 kV or more
  - c) 35 kV or more
  - d) 45 kV or more
34. **All conduits shall be:**
- a) threaded
  - b) wrench-tight
  - c) joined by a bonding jumper where threaded joint tight are impractical.
  - d) All of the above
35. **Fused cutouts shall be:**
- a) painted red
  - b) marked with their age
  - c) readily accessible for fuse replacement
  - d) None of the above
36. **Collector ring assemblies on revolving-type machines shall be:**
- a) painted red
  - b) guarded
  - c) visible
  - d) None of the above
37. **Intervals for grounding metal pipes and rails in tunnels**
- a) shall not exceed 1000 feet
  - b) shall not exceed 3000 feet
  - c) shall not exceed 5280 feet
  - d) shall not exceed 7000 feet
38. **Antenna lead-ins from an outdoor antenna shall be provided with:**
- a) a voltmeter
  - b) a ohm meter
  - c) an antenna discharge unit
  - d) None of the above

39. **The clearance between lead-in conductors and any lightning**
- a) protection is 2 feet minimum
  - b) protection is 6 feet minimum
  - c) protection is 9 feet minimum
  - d) None of the above
40. **Jack-hammer operators who may contact an underground line should:**
- a) use high-end rubber bits
  - b) use electric power
  - c) use gas power with spark arrestors
  - d) use insulated protective gloves
41. **Facilities for quick drenching of the eyes shall be provided**
- a) within 10 feet of the battery handling areas
  - b) within 25 feet of the battery handling areas
  - c) within 40 feet of the battery handling areas
  - d) within 60 feet of the battery handling areas
42. **Easily ignitable fibers and flyings include:**
- a) rayon
  - b) cotton
  - c) hemp
  - d) All of the above
43. **A device that governs the delivery of electric power**
- a) to an apparatus is a controller
  - b) to an apparatus is an arrestor
  - c) to an apparatus is an insulator
  - d) None of the above
44. **A case surrounding an installation to prevent contacting**
- a) energized parts is a box
  - b) energized parts is an arrestor
  - c) energized parts is an enclosure
  - d) None of the above
45. **Any shaftway, hatchway, or well hole are examples of:**
- a) hoistways
  - b) tunnels
  - c) partitions
  - d) Any of the above
46. **Anything not readily accessible to persons is:**
- a) guarded
  - b) isolated
  - c) unavailable
  - d) blinded

47. **The greatest root-mean-square potential difference**

- a) between 2 conductors is amperage
- b) between 2 conductors is voltage
- c) between 2 conductors is the mean potential
- d) between 2 conductors is the amount of joules

48. **Anything provided with a means to permit air circulation is:**

- a) unisolated
- b) available
- c) ventilated
- d) None of the above

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