

ARAMCO INTERVIEW QUESTIONS

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1. What is the purpose of a Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD)?

- A. To prevent overcurrent
- B. To prevent short circuits
- C. To protect personnel from electrocution (ground faults)
- D. To increase voltage

Correct Answer: C

2. What must be done immediately before working on any electrical circuit?

- A. Remove the fuse
- B. Ensure the circuit is de-energized, isolated, and locked out (LOTO)
- C. Put on rubber boots
- D. Call the electrician

Correct Answer: B

3. What type of protective equipment must be worn when working on or near exposed, energized electrical conductors?

- A. Leather gloves
- B. Arc Rated (AR) clothing
- C. Standard cotton coveralls
- D. A safety helmet only

Correct Answer: B

4. When using portable electric tools, what is the maximum permissible length for an extension cord?

- A. 15 meters (50 ft)
- B. 30 meters (100 ft)
- C. 45 meters (150 ft)
- D. No limit

Correct Answer: B

5. Which type of ladder is prohibited for use when working near energized electrical equipment?

- A. Fiberglass ladders
- B. Wooden ladders
- C. Aluminum ladders
- D. Plastic ladders

Correct Answer: C

6. What is required at the point of use for all temporary electrical power on a job site?

- A. A large transformer
- B. A Ground Fault Circuit Interrupter (GFCI/RCD)
- C. A fire extinguisher
- D. A warning sign only

Correct Answer: B

7. What must be done with flexible cords passing through doorways or walkways?

- A. Tape them to the floor
- B. Protect them from damage and trip hazards
- C. Run them through the ceiling
- D. Coil them neatly

Correct Answer: B

8. Who is authorized to perform maintenance or repair work on energized electrical equipment?

- A. Any trained worker
- B. Only Qualified Electrical Workers (QEW)
- C. The nearest supervisor
- D. The Permit Issuer

Correct Answer: B

9. Before removing a temporary ground lead after LOTO, who must be notified?

- A. The nearest security guard
- B. All affected personnel
- C. The site manager
- D. The contractor foreman

Correct Answer: B

10. What is the first step in the isolation of an electrical circuit?

- A. Test for voltage
- B. Open the disconnecting device (breaker/switch)
- C. Apply the lock and tag
- D. Remove the wire insulation

Correct Answer: B

11. What is the minimum safe distance for non-qualified personnel and equipment from an overhead power line rated at 13.8 kV?

- A. 1.5 meters (5 ft)
- B. 3 meters (10 ft)
- C. 6 meters (20 ft)
- D. 9 meters (30 ft)

Correct Answer: B

12. If a Hot Work Permit is issued for electrical work, what activity is likely involved?

- A. Using a battery-operated flashlight
- B. Using non-rated energized electrical devices in a classified area
- C. Turning off the main power switch
- D. Inspecting the breaker box

Correct Answer: B

13. What must be provided for all electrical circuits to allow for safe isolation?

- A. A spare fuse
- B. A clear means of disconnecting and isolating the circuit
- C. A red warning light
- D. A sign with the voltage

Correct Answer: B

14. What is the condition of an electrical tool that has a missing grounding pin?

- A. It can be used if it is double insulated
- B. It must be immediately removed from service
- C. It can be used if taped
- D. It is safe if the voltage is low

Correct Answer: B

15. How should damaged insulation on a power cord be handled?

- A. Ignore it if the tool works
- B. Tape it with electrical tape
- C. Remove the cord from service immediately
- D. Ask the supervisor to check it later

Correct Answer: C

16. What must be done after applying LOTO, and before starting work on an electrical circuit?

- A. Check the schedule
- B. Test the circuit to confirm it is de-energized
- C. Clean the area
- D. Call the Permit Issuer

Correct Answer: B

17. What type of power distribution system is required for lighting in vessels or tanks (Confined Spaces)?

- A. 110 Volt AC
- B. 220 Volt AC
- C. Low Voltage (12 V or less)
- D. High voltage DC

Correct Answer: C

18. What is required if an electrical circuit cannot be fully de-energized for repair?

- A. A full LOTO procedure must be applied regardless
- B. A documented Energized Work Permit must be issued
- C. Work must be postponed
- D. The worker must wear all rubber PPE

Correct Answer: B

19. What is the requirement for all temporary power panels used on the job site?

- A. They must be mounted on wooden supports
- B. They must be grounded and rain-tight
- C. They must be painted red
- D. They must be portable

Correct Answer: B

20. What is the minimum required safe distance from an energized electrical panel or equipment?

- A. The space must be kept clear
- B. 1.0 meter (3 ft)
- C. 1.5 meters (5 ft)
- D. 2.0 meters (6 ft)

Correct Answer: A

21. What must be ensured regarding electrical extension cords on the job site?

- A. They are heavy duty and rated for the load
- B. They are very long
- C. They are cheap
- D. They are colored orange

Correct Answer: A

22. What is the hazard associated with flexible cords that are spliced together?

- A. They are prone to overheating and fire
- B. They are too long
- C. They are messy
- D. They are difficult to unplug

Correct Answer: A

23. What must be clearly marked on electrical disconnect switches?

- A. The date of purchase
- B. The equipment they control
- C. The name of the supervisor
- D. The price

Correct Answer: B

24. What is the function of a Temporary Ground Lead applied after LOTO?

- A. To connect the system to the nearest pipe
- B. To ensure the circuit remains at zero potential (grounded)
- C. To provide temporary power
- D. To allow the circuit to be tested

Correct Answer: B

25. What must be done to prevent electrical hazards when excavation is near a known power cable?

- A. Call the fire watch
- B. Expose the cable carefully by hand digging
- C. Dig with a machine quickly
- D. Use a metal rod to probe the area

Correct Answer: B

26. What type of electrical hazards are workers exposed to when not wearing Arc Rated PPE?

- A. Noise exposure
- B. Thermal burns from arc flash
- C. Chemical exposure
- D. Ergonomic injury

Correct Answer: B

27. What is required on the Arc Flash Label on electrical equipment?

- A. Contact information for the nearest hospital
- B. The required Arc Flash Boundary and PPE level
- C. The name of the manufacturer
- D. The installation date

Correct Answer: B

28. What is the maximum allowed voltage for portable hand lamps?

- A. 240 Volts
- B. 110 Volts
- C. 24 Volts
- D. 12 Volts

Correct Answer: D

29. What is the rule regarding the use of single-pole switches as a means of LOTO?

- A. They are acceptable
- B. They are prohibited; only multi-pole switches can be used
- C. They can be used if they are large
- D. They are only for lighting circuits

Correct Answer: B

30. What is required for the use of generators on the job site?

- A. They must be connected to the grid
- B. They must be properly grounded and bonded
- C. They must be covered with a tarp
- D. They must be turned off when not in use

Correct Answer: B

31. What must be done to prevent water from accumulating near temporary electrical equipment?

- A. Allow it to evaporate
- B. Relocate the equipment or drain the water
- C. Cover it with sand
- D. Wrap the equipment in plastic

Correct Answer: B

32. What must be confirmed by the Qualified Electrical Worker (QEW) before applying temporary grounds?

- A. That the circuit is energized
- B. That all workers are watching
- C. That the circuit is de-energized and tested at zero potential
- D. That the ground leads are old

Correct Answer: C

33. What is required for the installation of new electrical equipment?

- A. It must be painted yellow
- B. It must comply with Saudi Aramco and NEC/IEC standards
- C. It must be installed quickly
- D. It must be installed by a non-qualified person

Correct Answer: B

34. What is the hazard of an overloaded electrical circuit?

- A. The lights will dim
- B. The circuit wiring may overheat and cause a fire
- C. The tool will stop working
- D. The wire will change color

Correct Answer: B

35. Who is responsible for inspecting temporary electrical installations before first use?

- A. The supervisor
- B. The Qualified Electrical Worker (QEW)
- C. The cleaning crew
- D. The security guard

Correct Answer: B

36. What is the required color code for temporary electrical wiring in Saudi Aramco?

- A. Yellow
- B. Green
- C. It must be readily distinguishable from permanent wiring
- D. Red

Correct Answer: C

37. What must be done to prevent unauthorized tampering with LOTO on electrical equipment?

- A. Use a small lock
- B. Use a personal safety lock and tag that cannot be easily cut
- C. Use a plastic tie wrap
- D. Leave the key nearby

Correct Answer: B

38. What must be provided for all workers using electrical tools in wet or damp locations?

- A. A dedicated rubber mat
- B. GFCI/RCD protection
- C. A dehumidifier
- D. Extra gloves

Correct Answer: B

39. If a substation contains exposed live parts, what access restriction is required?

- A. A chain only
- B. A locked fence or enclosure
- C. A warning sign only
- D. A security camera

Correct Answer: B

40. What is the requirement for electrical cords and cables when not in use?

- A. They must be thrown on the ground
- B. They must be coiled and stored properly
- C. They must be left plugged in
- D. They must be buried

Correct Answer: B

41. What must be done with electrical cables near sources of heat or fire?

- A. Cover them with tape
- B. Route them away from heat sources
- C. Spray them with water
- D. Insulate them with cardboard

Correct Answer: B

42. What is the primary danger associated with using damaged electrical cords?

- A. Electrocution and fire
- B. Noise pollution
- C. The cord will break
- D. The tool will slow down

Correct Answer: A

43. When should a supervisor perform an inspection of the electrical work site?

- A. Only at the start of the project
- B. Daily or more frequently to ensure safety and compliance
- C. Only when a problem is reported
- D. Only when the weather is good

Correct Answer: B

44. What must be done to prevent an electrical hazard from overhead lines when operating a crane?

- A. Post a warning sign
- B. Maintain the required minimum safe distance and use a spotter
- C. Spray the lines with water
- D. Use a smaller crane

Correct Answer: B

45. What type of fire extinguisher is required near electrical equipment?

- A. Water-based extinguisher
- B. Type C (for electrical fires) or multi-purpose dry chemical
- C. Foam extinguisher
- D. Wet chemical extinguisher

Correct Answer: B

46. What is the maximum allowed current draw from a single duplex (double) receptacle on a temporary power source?

- A. 10 Amps
- B. 15 Amps
- C. 20 Amps
- D. 30 Amps

Correct Answer: C

47. What must be confirmed about electrical plug and receptacle ratings?

- A. That they are manufactured in the same country
- B. That they are rated for the voltage and current of the system
- C. That they are the same color
- D. That they are new

Correct Answer: B

48. What is required to be posted in electrical substations for quick isolation in an emergency?

- A. A list of workers
- B. Updated single line drawings
- C. A list of spare parts
- D. The security guard's phone number

Correct Answer: B

49. What must be worn when testing for zero voltage on a live circuit?

- A. Standard work gloves
- B. Arc Rated clothing and other necessary PPE
- C. A rain jacket
- D. A full-face shield only

Correct Answer: B

50. What must be done to temporary electrical equipment before it is energized for the first time?

- A. Washed with water
- B. Inspected and tested by a Qualified Electrical Worker
- C. Painted yellow
- D. Left out in the sun

Correct Answer: B

51. What is the main purpose of an Arc Flash Boundary?

- A. To mark the limit where workers must wear AR PPE
- B. To mark the distance where an arc flash could cause second-degree burns
- C. To mark the limit where Hot Work is allowed
- D. To mark the limit where noise levels are too high

Correct Answer: B

52. What is the requirement for all unused openings in electrical enclosures (e.g., junction boxes)?

- A. They must be covered with tape
- B. They must be closed and sealed
- C. They can be left open for ventilation
- D. They must be painted blue

Correct Answer: B
