

answers to electrical questions

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Intro

Electrical comprehension tests are used to assess your competence in the use of electrical concepts.

SAMPLE QUESTION: What does the following symbol represent?

In the following circuit, what happens if the switch remains open?

In the following circuit, if switch A closes and switch B remains open, what will happen?

In the following circuit, with switch A open, which bulbs are illuminated (if any)?

If switch B remains open, what will happen? 12 V Battery

In the following electrical circuit, if switch A closes and switch B and switch C remain open, what will happen?

In the following circuit, how many bulbs will illuminate if switch 3 closes?

In the following circuit, how many bulbs will illuminate if switches 1 and 5 close?

Which of the following symbols represents a speaker? TIMER

Which of the following symbols represents a heating element?

Which of the following symbols represents a variable TIMER

ELECTRONIC CIRCUIT SYMBOLS

Which type of electrical device only allows current in one direction?

What is covered on wires to guard the

Try another one...

What does the DC stand for in the term 'DC electricity'?

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Intro

Tell me about yourself why you will make a good Electrical Engineer for our company? Thank you for inviting me to be interviewed for this position today. I would like to think I am a safety-focused, results-driven and professional electrical engineer who can be relied upon to carry out my tasks competently within strict rules and procedures in a fast and efficient manner.

Q. What skills are needed to become a competent Electrical Engineer in this role?

Q. As an Electrical Engineer, how would you develop professional relationships?

I believe it's important to build strong relationships as an electrical engineer for two main reasons. Firstly, it can help you to complete tasks quickly and more effectively, if you can call on people for help advice, or support.

21 Electrical Engineer Interview Questions & Answers

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Intro

Star Delta Starter

RCcb

Series Motor

Universal Motor

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Intro

Jules Law

Voltage Drop

Capacitance

Horsepower

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Definitions

Identify the relay?

Series & Parallel Circuit

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The pit area in commercial garages, repair and storage areas is classified as Class 1. Division 2 if there is mechanical ventilation providing a minimum of ___ air changes per hour

Flexible Metal Conduit (FMC) must be secured within other termination: A 15 in

If space limitations prevent_of space from the pool, underground wiring must be installed in a complete raceway system

The maximum approval electrical trade size of IMC is

A branch circuit for an appliance that's a continuous load must be rated not less than___of the marked ampere ratings of the appliance

The overcurrent protection device of non-motor appliances must not exceed overcurrent device rating is not marked: A 20A

For equipment rated 800 A or more personnel doors located less than ___ from the nearest edge of the working space must open in the direction of egress and have listed panic hardware

A flexible cord is permitted for an in-sink waste disposal if the cord length is no longer than

Receptacles not supplying loads directly related to circulation systems must be located not less than_from the inside walls of the pool

Load where the maximum current is expected to exist for continuous load

The minimum lighting load for industrial commercial buildings is ___volt amperes per square foot

All_125V receptacle outlets that are not a part of the permanent wiring of the building used by personnel must be GFCI protected: A. All the options are correct

Overhead conductors rating 600V or less, except for the conductors that supply the amusement ride or attractions, must have a clearance of_ from portable amusement structures

Grounding type receptacles shall be used on which of the following branch circuits

Paddle fans over

The conductors between the service equipment, a separately derived system, or other power supply and the final branch circuit overcurrent device: A Service drop

Maximum distance to any receptacles shall be ___along the floor line of any wall space measured horizontally A 12

If internal combustion engines are used as the prime mover, an onsite fuel supply must be provided for not less than —of full demand operation of the system

Maximum overcurrent protection for 12 AWG copper conductor is

If installed horizontally, metal wireways must be supported at each end and at intervals not exceeding

Power limited fire alarm circuit conductors must be separated by not less than insulated conductors of electric light, power or Class 1 circuits

Overhead communications cables must have a vertical clearance of at least of roots above which they pass

A cord no longer than with an attachment plug and containing a copper equipment grounding conductor not smaller than 12 AWG is permitted for pool motors

The ampacity adjustment factors don't apply to conductors installed in surface metal raceways if the cross sectional area of the raceway exceeds $Asqin$

circuit breakers or sets of fuses are acceptable as overcurrent device to provide overload protection in one family dwellings

Splices and taps must be accessible and must not fill raceway to more than of its cross-sectional area

The overhead service conductors above a roof with a slope of at least 4.in in 12. in have a minimum clearance of

Flexible cords is permitted to be run through holes in walls, structural ceilings, suspended or dropped

ceilings or floors: A True B. False

The feeder circuit for a mobile or a mobile or manufactured home must be rated at not less than at 120/240V

is the maximum approved electrical trade size for PVC conduit

Receptacles must be mounted

The ground detection sensing equipment must be connected as close as practicable to where the system receives its power supply A False B True

GFCI protection is required for ___ 125, general purpose receptacles located in dirt confinement areas for livestock A 15A

A two pole circuit breaker or fusible switch shall be considered as

Except for storable pools, fixed or stationary equipment other than an underwater luminaire cord

At least_ of free conductor, measured from the point in the box where it emerges from its raceway or cable sheath shall be left at each outlet, junction and switch point

A switch or circuit breaker enclosure may be used as a raceway if the conductor fill does not exceed

A portable generator is required to be grounded if the generator only supplies receptacles mounted on the generator A True

Cables listed for information technology equipment can be used to interconnect information technology equipment without the_ cable length limited A 12 foot

Ceiling grid which supports the wires may be permitted to support raceways

The coupling means of the Electric Vehicle supply equipment must be stored or located not less

The portion of the grounding electrode conductor that is the sole connection to one or more ground rod is not required to be larger than_

A vertically mounted luminaire weighting no more than — can be supported to a device box or plaster ring secured to a device box

If multiple power sources supply portable structures, the circuit equipment grounding conductors at each portable structures must be bonded together for all portable structures separated by less than

Cord and plug equipment not fastened in place cannot be rated more than circuit rating

Electrical nonmetallic tubing must be secured within ___ of every box, cabinet or temperature fitting such as a conduit body

All fixed metal parts must be bonded to the equipment grid is located more than___horizontally from the inside walls of the pool structure

Type NMC cable installed in shallow chases in masonry, concrete or adobe must be protected against nails or screws by a steel plate not less than in thick and covered with adobe or similar finish

Feeder tap conductors in a circuit up to protection at the tap location

For appliances rated at not over the branch eircuit overcurrent device such as plug fuse or circuit breaker can serve as the appliance disconnect: A 1/8 hp

Type NM cable must be secured within feet

Boxes for a luminaire in a ceiling must be designed to support a luminaire weighting a minimum of

A common grounding electrode conductor must not be smaller than

Grounding electrode must have atleast_ length in contact with the earth

Metal parts of electrical raceways, cables, enclosures and equipment must be connected to the supply source via an effective ground fault path

A branch circuit for an appliance that is a continuous load must be rated less than marked ampere rating of the appliance

Fault Finding Testing for Insulation Resistance. Low Reading Insulation Resistance Fault - Fault

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Intro

What are the types of Induction Motor?

What is Slip in an Induction Motor?

What is meant by Crawling in Induction Motor?

What is meant by Cogging in Induction Motor?

What is the advantage of skewed stator slots in rotor of Induction motors?

What are the various methods of speed control in three phase Induction motors?

What are the tests of Induction Motor?

What is the Working Principle of Transformer?

What are the Main Constructional Parts of Transformer?

What are the Conditions for Parallel Operation of Transformers?

What is meant by Ideal Transformer?

What are the Losses in Transformer?

What are the different types of Transformer?

What are the different types of connection of 3 Phase Transformers?

What is meant by Auto Transformer?

What is meant by Instrument Transformer?

What are the types of Instrument Transformer?

What is Current Transformer?

What is Potential Transformer?

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Does MCB operate during human Electric shock?

What is Megger?

Basic difference between fuse and circuit breaker?

Difference between mm cables and imperial cables like 7/0.029 or 7/0.036 etc?

Difference between Earthing and Ground?

What is star Delta starter?

how much Friction losses exists in a Electrical transformer?

What is the effect of frequency in transformer?

which electric motor is most power full AC motor or DC motor?

Which fire extinguisher is used for electrical fire?

Why stones are used on the floor of grid station yard?

what is power factor?

Why 50Hz frequency is used in Pakistan and India instead of 60Hz?

Why transformer's rating is always in KVA?

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What Is Ac Sr Cable and Where We Use It

What Is Meant by Armature Reaction

What Is the Principle of Motor

What Is Marc Circuit

.How Can You Start Up the 40 Watt Tube Light with 230 Volts of Ac / Dc without Using any Choke or Coil

What Is Electric Attraction

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