

Electrician Assistant Job Interview Questions And Answers



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Electrician Assistant Interview Questions And Answers Guide.

Question - 1:

What is slip in an induction motor?

Ans:

Slip can be defined as the difference between the flux speed (N_s) and the rotor speed (N). Speed of the rotor of an induction motor is always less than its synchronous speed. It is usually expressed as a percentage of synchronous speed (N_s) and represented by the symbol 'S'.

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Question - 2:

What are the various kind of cables used for transmission?

Ans:

Cables, which are used for transmitting power, can be categorized in three forms:

- * Low-tension cables, which can transmit voltage upto 1000 volts.
- * High-tension cables can transmit voltage upto 23000 volts.
- * Super tension cables can transmit voltage 66 kV to 132 kV.

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Question - 3:

How can you relate power engineering with electrical engineering?

Ans:

Power engineering is a sub division of electrical engineering. It deals with generation, transmission and distribution of energy in electrical form. Design of all power equipments also comes under power engineering. Power engineers may work on the design and maintenance of the power grid i.e. called on grid systems and they might work on off grid systems that are not connected to the system.

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Question - 4:

Why star delta starter is preferred with induction motor?

Ans:

Star delta starter is preferred with induction motor due to following reasons:

- Starting current is reduced 3-4 times of the direct current due to which voltage drops and hence it causes less losses.
- Star delta starter circuit comes in circuit first during starting of motor, which reduces voltage 3 times, that is why current also reduces up to 3 times and hence less motor burning is caused.
- In addition, starting torque is increased and it prevents the damage of motor winding.

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Question - 5:

Explain State Thevenin's Theorem:

Ans:

According to thevenin's theorem, the current flowing through a load resistance

Connected across any two terminals of a linear active bilateral network is the ratio open circuit voltage (i.e. the voltage across the two terminals when RL is removed) and sum of load resistance and internal resistance of the network. It is given by $V_{oc} / (R_i + R_L)$.

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Question - 6:

Tell me What are the different methods for the starting of a synchronous motor?

Ans:



Starting methods: Synchronous motor can be started by the following two methods:

- By means of an auxiliary motor: The rotor of a synchronous motor is rotated by auxiliary motor. Then rotor poles are excited due to which the rotor field is locked with the stator-revolving field and continuous rotation is obtained.
- By providing damper winding: Here, bar conductors are embedded in the outer periphery of the rotor poles and are short-circuited with the short-circuiting rings at both sides. The machine is started as a squirrel cage induction motor first. When it picks up speed, excitation is given to the rotor and the rotor starts rotating continuously as the rotor field is locked with stator revolving field.

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Question - 7:

Why are you leaving your current job as Electrician Assistant?

Ans:

If you are currently employed and are seeking a job, then you will probably hear this question. Be honest, but be careful to say anything that might indicate that you may have problems getting along with your coworkers. Don't make negative comments about particular individuals or indicate personality problems with coworkers. Focus on work-related reasons for leaving.

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Question - 8:

Explain State Norton's Theorem?

Ans:

The Norton's theorem explains the fact that there are two terminals and they are as follows:

- One is terminal active network containing voltage sources
- Another is the resistance that is viewed from the output terminals. The output terminals are equivalent to the constant source of current and it allows giving the parallel resistance.

The Norton's theorem also explains about the constant current that is equal to the current of the short circuit placed across the terminals. The parallel resistance of the network can be viewed from the open circuit terminals when all the voltage and current sources are removed and replaced by the internal resistance.

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Question - 9:

Tell me What is your work experience as Electrician Assistant?

Ans:

Employers are looking for steady work employment and not short term assignments and big gaps between jobs. You should be prepared to explain any gaps between jobs. Another piece of advice is to focus on work experience relevant to the position you are currently applying for as well as your most recent work history.

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Question - 10:

Explain advantages of storage batteries?

Ans:

Few advantages of storage batteries are mentioned below:

- Most efficient form of storing energy portably.
- Stored energy is available immediately because there is no lag of time for delivering the stored energy.
- Reliable source for supply of energy.
- The energy can be drawn at a fairly constant rate.

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Question - 11:

Why are you interested in this particular aspect of the field as Electrician Assistant?

Ans:

Depending on they type of job you are interviewing for, either industrial, residential or commercial, you might be asked why you are interested in that field and not one of the others.

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Question - 12:

How does Zener phenomenon differ from Avalanche breakdown?

Ans:

The phenomenon when the depletion region expands and the potential barrier increases leading to a very high electric field across the junction, due to which suddenly the reverse current increases under a very high reverse voltage is called Zener effect. Zener-breakdown or Avalanche breakdown may occur independently or both of these may occur simultaneously. Diode junctions that breakdown below 5v are caused by Zener Effect. Junctions that experience breakdown above 5v are caused by avalanche-effect. The Zener-breakdown occurs in heavily doped junctions, which produce narrow depletion layers. The avalanche breakdown occurs in lightly doped junctions, which produce wide depletion layers.

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Question - 13:

Name some types of motors used in vacuum cleaners, phonographic appliances, vending machines, refrigerators, rolling mills, lathes, power factor improvement and cranes?

Ans:

Following motors are used: -



- Vacuum cleaners- Universal motor.
- Phonographic appliances - Hysteresis motor.
- Vending machines - Shaded pole motor.
- Refrigerators - Capacitor split phase motors.
- Rolling mills - Cumulative motors.
- Lathes - DC shunt motors.
- Power factor improvement - Synchronous motors

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Question - 14:

What are your qualifications for this job as Electrician Assistant?

Ans:

Employer will want to know if you have the right skills and credentials for the job. Mention your education, any relevant certifications, and experience from previous jobs that specifically pertain to an electrician's job.

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Question - 15:

Explain the forward resistance, static resistance and dynamic resistance of a pn junction diode?

Ans:

- Forward Resistance: Resistance offered in a diode circuit, when it is forward biased, is called forward-resistance.
- DC or Static Resistance: DC resistance can be explained as the ratio of the dc-voltage across the diode to the direct current flowing through it.
- AC or Dynamic Resistance: It can be defined as the reciprocal of the slope of the forward characteristic of the diode. It is the resistance offered by a diode to the changing forward current.

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Question - 16:

Why AC systems are preferred over DC systems?

Ans:

Due to following reasons, AC systems are preferred over DC systems:

- a. It is easy to maintain and change the voltage of AC electricity for transmission and distribution.
- b. Plant cost for AC transmission (circuit breakers, transformers etc) is much lower than the equivalent DC transmission
- c. From power stations, AC is produced so it is better to use AC then DC instead of converting it.
- d. When a large fault occurs in a network, it is easier to interrupt in an AC system, as the sine wave current will naturally tend to zero at some point making the current easier to interrupt.

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Question - 17:

Explain thin film resistors and wire-wound resistors?

Ans:

- a. Thin film resistors- It is constructed as a thin film of resistive material is deposited on an insulating substrate. Desired results are obtained by either trimming the layer thickness or by cutting helical grooves of suitable pitch along its length. During this process, the value of the resistance is monitored closely and cutting of grooves is stopped as soon as the desired value of resistance is obtained.
- b. Wire wound resistors - length of wire wound around an insulating cylindrical core are known as wire wound resistors. These wires are made of materials such as Constantan and Manganin because of their high resistivity, and low temperature coefficients. The complete wire wound resistor is coated with an insulating material such as baked enamel

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Question - 18:

Telephonic Electrician assistant interview questions:

Ans:

- * Can you describe a time when your work was criticized?
- * Tell me about an important issue you encountered recently.
- * What are the qualities of a good leader?
- * How well did your college experience prepare you for this job?
- * What are three positive character traits you don't have?

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Question - 19:

Communication skills Based Electrician assistant interview questions:

Ans:

- * What have you done to support diversity in your unit?
- * What support training would you require to be able to do this job?
- * What type of work environment do you prefer?
- * What do you think this position involves.
- * What irritates you about other people?

Answer as sincerely as possible. Don't lie as if you are discovered, it shall be very bad situation.

Answer Electrician assistant interview questions pertaining to job qualifications and skill sets honestly. Make sure your eye contact with the interviewers during the interview.



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Question - 20:

Situational Electrician assistant interview questions:

Ans:

- * How do you evaluate your ability to handle conflict?
 - * What attracted you to this company?
 - * What have you been doing since your last job?
 - * What parts of your education do you see as relevant to this position?
 - * What is the difference between a good position and an excellent one?
- Never interrupt - even where the question is obvious, wait for the interviewer to finish before your reply. Make sure the experience is relevant. Be sure to discuss a very specific example.

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Question - 21:

Video Based Electrician assistant interview questions:

Ans:

- * Situation in which you had to arrive at a compromise.
- * What were the responsibilities of your last position?
- * What negative thing would your last boss say about you?
- * Where do you see yourself in five years time?
- * What would you say are your strong points?

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Question - 22:

Behavioral Electrician assistant interview questions:

Ans:

- * What can you do for us that other candidates cant?
- * How do you keep track of things you need to do?
- * What kinds of situations do you find most stressful?
- * How do you decide what gets top priority when scheduling your time?- Give examples of ideas you've had or implemented.

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Question - 23:

Competency Based Electrician assistant interview questions:

Ans:

- * How would you describe the experience of working here?
 - * How do you react to instruction and criticism?
 - * When given an important assignment, how do you approach it?
 - * What were your annual goals at your most current employer?
 - * What are three positive things your last boss would say about you?
- Be prepared to discuss in detail and with examples your five or six main attributes. Just try to stay focused on the job you're interviewing for. Give an example that relates to the type of position applied for.

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Question - 24:

Strengths and Weaknesses Based Electrician assistant interview questions:

Ans:

- * Your greatest weakness in school or at work?
- * When was the last time you were in a crises?
- * Tell me about a time when you successfully handled a situation?
- * Would you rather write a report or give it verbally?
- * What do you believe are your key strengths?
- *

Never use any adjectives for these sort of Electrician assistant interview questions. Don't talk about previous experience that is not related to the position in question. Your answer should be focused on what you can bring to the role that will be of benefit to the company.

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Question - 25:

Basic Electrician assistant interview questions:

Ans:

- * A team experience you found disappointing.
- * How would you describe your work style?
- * Do you think you are overqualified for this position?
- * How did you prepare for this work?
- * Do you prefer to work independently or on a team?

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**Question - 26:**

Explain and Compare JFET's and MOSFET's?

Ans:

Comparison of JFET's and MOSFET's:

- JFET's can only be operated in the depletion mode whereas MOSFET's can be operated in either depletion or in enhancement mode. In a JFET, if the gate is forward-biased, excess-carrier injection occurs and the gate-current is substantial.
- MOSFET's have input impedance much higher than that of JFET's. Thus is due to negligible small leakage current.
- JFET's have characteristic curves more flat than that of MOSFET is indicating a higher drain resistance.
- When JFET is operated with a reverse-bias on the junction, the gate-current I_G is larger than it would be in a comparable MOSFET.

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Question - 27:

Explain CMRR, and what is a differential amplifier?

Ans:

Differential Amplifier: The amplifier, which is used to amplify the voltage difference between two input-lines neither of which is grounded, is called differential amplifier. This reduces the amount of noise injected into the amplifier, because any noise appearing simultaneously on both the input-terminals as the amplifying circuitry rejects it being a common mode signal.

CMRR: It can be defined as the ratio of differential voltage-gain to common mode voltage gain. If a differential amplifier is perfect, CMRR would be infinite because in that case common mode voltage gain would be zero.

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Question - 28:

Explain the application of storage batteries?

Ans:

Storage batteries are used for various purposes, some of the applications are mentioned below:

- For the operation of protective devices and for emergency lighting at generating stations and substations.
- For starting, ignition and lighting of automobiles, aircrafts etc.
- For lighting on steam and diesel railways trains.
- As a supply power source in telephone exchange, laboratories and broadcast stations.
- For emergency lighting at hospitals, banks, rural areas where electricity supplies are not possible.

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Question - 29:

WHAT EXPERIENCE DO YOU HAVE FOR ASSISTANT ELECTRICIAN POSITION?

Ans:

Speak about specifics that relate to the position you are applying for. If you do not have specific experience, get as close as you can.

If you are being asked this question from your employer then you can explain your experience. Tell the employer what responsibilities you were performing during your job. You can tell what programs you developed and what modules you worked on. What were your achievements regarding different programs.

I have been working with computers since 2001. I also have a degree in network support/computer repair. I have built my last 3 computers, have work with Dell as an employee. So I have around 15 years experience working with computers.

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Question - 30:

Why should we hire you as Electrician Assistant?

Ans:

You'll find this question near the end of the interview. If you feel you have something special to offer that didn't get mentioned or prompted in the interview then say it here. Avoid using cliched buzzwords like "hard-working" and "fast learner" and "gets along well with others"; the employer wants to hear something different and unique, so think about this question the most. Use it as your opportunity to really sell yourself to the hiring manager.

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Question - 31:

Tell Me WHAT SHOULD BE THE QUALITIES OF ASSISTANT ELECTRICIAN?

Ans:

In order to score in this interview question, a efficient way is to give a list of qualities and skills that is suitable with an admin assistant position. You can start with "Firstly, an admin must have effective methods, secondly, give job the priority, thirdly, create a good team work" etc. Remember that the duty of an admin assistant is to communicate with several of people, so excellent communication skills and a good personality are required.

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Question - 32:

State the difference between generator and alternator?

Ans:

Generator and alternator are two devices, which converts mechanical energy into electrical energy. Both have the same principle of electromagnetic induction, the only difference is that their construction. Generator persists stationary magnetic field and rotating conductor which rolls on the armature with slip rings and brushes riding against each other, hence it converts the induced emf into dc current for external load whereas an alternator has a stationary armature and rotating magnetic field for high voltages but for low voltage output rotating armature and stationary magnetic field is used.

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**Question - 33:**

Why are you interested in the electrician trade?

Ans:

If you are new to the electrical trade or are applying for an apprenticeship, you will probably be asked this question. Employers ask this question because they want to hear your motivations and goals so that can be sure that you really have an interest in the field.

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Question - 34:

Explain State Maximum power transfer theorem?

Ans:

The Maximum power transfer theorem explains about the load that a resistance will extract from the network. This includes the maximum power from the network and in this case the load resistance is being is equal to the resistance of the network and it also allows the resistance to be equal to the resistance of the network. This resistance can be viewed by the output terminals and the energy sources can be removed by leaving the internal resistance behind.

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Question - 35:

Why back emf used for a dc motor? highlight its significance?

Ans:

The induced emf developed when the rotating conductors of the armature between the poles of magnet, in a DC motor, cut the magnetic flux, opposes the current flowing through the conductor, when the armature rotates, is called back emf. Its value depends upon the speed of rotation of the armature conductors. In starting, the value of back emf is zero.

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Question - 36:

What salary are you expecting from this job as Electrician Assistant?

Ans:

Be prepared to quote a realistic salary expectation for the position that you are applying for. Use your knowledge about the profession and the company to make a request that meets your needs while also being reasonable.

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Question - 37:

Do you specialize in any particular areas of electrician work?

Ans:

Along with qualifications, an employers will want to know if you have any particular specializations. For example, some electricians specialize in electrical systems and controls, wiring, or electro-mechanical repairs. Others may have particular expertise in reading blueprints or general troubleshooting.

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