

Elevator Technician Interview Questions And Answers Guide.



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Elevator Technician Job Interview Preparation Guide.

Question # 1

Tell me why did you want to get into elevator construction?

Answer:-

I knew that I wanted to work outside, and do something with my hands. But with this apprenticeship, the hands-on work and classroom training are perfectly suited to the novice. The timing was perfect for me actually. I got out of the Army in August 2013, and a few weeks later there was an interview at the union, which hadn't happened for a long time.

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Question # 2

Do you know when does my residential elevator or lift need to be serviced and inspected?

Answer:-

Your home elevator or wheelchair lift is an investment. In order to keep your equipment reliable and running as intended, we recommend you schedule an annual service visit. Annual service visits can prevent down time and accessibility issues. Most manufacturer warranties require an annual service by a licensed elevator mechanic.

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Question # 3

What is counterweight Drive?

Answer:-

This drive system utilizes an overhead machine drive that connects a stack of counterweights to the sling and cab assembly by way of 2 #60 roller chains.

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Question # 4

What is gate?

Answer:-

The gate is a door that attaches to the outer edge of the elevator or dumbwaiter car. It prevents objects inside the car from coming into contact with objects outside of the car during travel. Gate styles include: accordion for elevators and bi-part and roll top gates for dumbwaiters.

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Question # 5

What is service Disconnect?

Answer:-

Located near the controller in the machine room, the service disconnect is the main power switch to the elevator.

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Question # 6

What is winding Drum Elevator?

Answer:-

This drive system utilizes wire ropes that wind onto a rotating drum.

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Question # 7

Tell me how extensive is your testing after installing a new elevator?

Answer:-

Testing an elevator that has been newly installed would require, an extreme amount of testing. We want to make sure that the job we have completed is to code, and is



safe and reliable, without any faults what so ever.

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Question # 8

Tell me what is the work/life balance like?

Answer:-

I work in new installation, so I work four days, 10 hours a day. So for me, having a three-day weekend every weekend is awesome. And if you do get overtime, it ends up being double-time, and well worth working on the weekend. Each union can cover a lot of territory, so you may spend months out of town, four days a week, and home for a three-day weekend. This can be hard for some people, depending on your situation. While you are an apprentice for the first 5 years, you get 3 weeks of paid vacation per year. After you make mechanic, you get 1 month of paid vacation per year.

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Question # 9

What is automatic Gate Operator?

Answer:-

Automatic Gate Operator is an electromechanical device that opens and closes the car gate automatically.

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Question # 10

What is electromechanical Interlock?

Answer:-

Often referred to as EMI, is an electromechanical safety lock that prevents the hoistway door (hall door) from opening if the elevator is not at that landing.

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Question # 11

What is muntz?

Answer:-

Muntz is the name given to the bronze tone finish on the hall stations and car operating panel.

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Question # 12

What is weight Capacity?

Answer:-

Is the total amount of weight that can be added to the elevator. For safety purposes, never exceed the elevator car's weight capacity.

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Question # 13

Tell me do you have experience repairing elevators?

Answer:-

Respect to elevators managment position.

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Question # 14

Tell us what's the biggest misconception people have about your job?

Answer:-

Most people don't think elevators are built by specially trained mechanics. And as long as they are working, they don't give an elevator much thought. But like any machine, it needs to be built and maintained over the life of the equipment, like a car would.

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Question # 15

What is G.A.L.?

Answer:-

Mechanical locking device located on the door at each floor level. Uses an arm to positively lock and open the door.

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Question # 16

What is C.O.P.?

Answer:-

The Car Operating Panel (C.O.P.) is the control panel inside the elevator that houses the floor buttons, the light switch, the alarm button, the emergency stop switch and optional key lock.

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Question # 17

Tell us what's the best part of your job?

Answer:-

Transforming an empty, hollow hoistway to a working elevator in a matter of weeks. Pay is also really good, even when you are just starting out. And the benefits are top notch. They contribute to an annuity, for every hour you work, and it adds up quick. And it is one of the few remaining jobs that still has a pension when you are done. The union is full of a bunch of hard-working blue collar guys, and most are always willing to help you out either at work, or in your personal life.

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Question # 18

Tell us can you define elevator mechanics for us a little bit?

Answer:-

There are two types of elevators: traction and hydraulic. Traction is more for taller buildings, over six floors or so. Ropes, traction electric motors, and counter-weights move the elevator up and down. Hydraulic elevators are for buildings that are up to five floors or so, due to the limited distance the jacks can reach. Hydraulic fluid goes through a submersible motor, and either pumps fluid into the jacks raising the elevator, or drains it into the tank lowering it. Complex electrical systems control the elevator, from the push buttons in the lobby, inside the car, fire safety, telecommunications, and so on. Of course this is a brief general description!

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Question # 19

What is car (or Cab)?

Answer:-

The elevator car transports passengers from one floor to another. These come pre-finished or can be left unfinished to accept your design.

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Question # 20

What is hydraulic (Roped)?

Answer:-

This drive system utilizes a hydraulic jack and a wire rope to raise and lower the passenger car.

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Question # 21

What is sling?

Answer:-

The sling is an L-shaped steel support that holds the elevator car and is attached to the rail system.

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Question # 22

What is hall Station?

Answer:-

The Hall Station refers to the panel located outside the elevator doorway in the hallway that houses the call button.

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Question # 23

What is backup Battery?

Answer:-

An emergency power source that will allow you to lower the elevator to the next lower level in the event of a power failure.

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Question # 24

Explain me how do you find work as an elevator mechanic? What's the job market like?

Answer:-

You want to be in the highest paying trade in the country? There are 66 local elevator unions across the United States, in most major cities. Contact your closest union hall, and inquire about the next application period. Growth is estimated at 25% until 2022, and the average pay is \$76,650 per year (\$38.65/hr). Getting in can be difficult. First is the application, then a mechanical aptitude exam.

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Question # 25

What is controller?

Answer:-

The controller houses the electrical control circuits of the elevator. This is the brain of the elevator system.

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**Question # 26**

What is gearless Drive?

Answer:-

This drive system utilizes a small gearless, overhead motor that attaches to the sling assembly with a set of wire cables.

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Question # 27

What is sheave?

Answer:-

Elevator term for a pulley.

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Question # 28

What is counterweight?

Answer:-

A series of weights stacked on top of each other to offset the cab weight. Used to increase efficiency.

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Question # 29

What areas you have worked on with elevator installations?

Answer:-

I am a five year indentured apprentice with Otis.

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Question # 30

Tell us what's the worst part of your job?

Answer:-

Being in construction, the job is cyclical with the economy. Getting laid off is a real concern. The first year is a trial, and you will be tested, with your mind and body. And it is dangerous. Heights, high-voltage electricity, and moving mechanical parts are all potential hazards.

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Question # 31

Tell me how often should my elevators be maintained?

Answer:-

- * * High traffic hydraulic elevators should be serviced at least once per month.
- * * High traffic traction elevators should be serviced at least twice per month depending on how much it is used.
- * * For all freight elevators, it is best to service once a month.
- * * Industrial Rack-and Pinions should be serviced once a month except during outages which should then be performed once a week.

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Question # 32

Explain me a little bit about a normal workday?

Answer:-

Be prepared to end up covered in dirt, concrete and sheetrock dust, and soaked in sweat, when all is said and done. A typical day, if you are building new installation elevators, will be on, surprise, a construction site. Hours for me are usually Monday through Thursday, 7:00-5:30. You and your mechanic will unload the truck full of pallets, rails, and the controller. Most all parts weigh north of 100lbs, and must be moved mostly by hand from outside to the hoistway inside.

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Question # 33

What is dumbwaiter?

Answer:-

Is a self contained car that is lowered and raised on a vertical path. Dumbwaiters can carry loads from 50 lbs. to 500 lbs. depending on the model chosen. Load examples may be fireplace wood, grocery bags, laundry and paperwork.

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Question # 34

What is drive System?

Answer:-

The drive system is the power and strength behind lifting the elevator car and its passenger(s)

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Question # 35



Elevator Technician Interview Questions And Answers

What is machine Room-less?

Answer:-

Used when located on top of the rail in the hoistway and the Control box is located nearby but does not require a separate room.

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Question # 36

What is landing?

Answer:-

A term used to describe each floor on which the elevator will open.

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Question # 37

What is call Button?

Answer:-

Pressing the call button in the hallway will call the elevator to your level.

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Question # 38

What is machine Room?

Answer:-

The machine room is a small adjacent room that houses the drive system and electrical controls.

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Question # 39

What is hoistway Doors?

Answer:-

The hoistway door allows access to the hoistway and is prevented from opening unless the elevator is stopped and waiting at that particular landing.

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Question # 40

What is rail?

Answer:-

The rail is the steel track that guides the elevator when it travels up and down the hoistway. Depending on the model there may be one or two rails.

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Question # 41

What is pit?

Answer:-

The pit provides clearance for the support components that are below the floor of the elevator car allowing the elevator floor to level with the lowest landing floor.

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Question # 42

What is jack?

Answer:-

The Jack utilizes hydraulic power to lift or lower the passenger car.

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Question # 43

What is hoistway?

Answer:-

The hoistway is the enclosed space in which the elevator travels.

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