

Aviation Interview Questions And Answers Guide.



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Aviation Job Interview Preparation Guide.

Question # 1

What is stress analysis?

Answer:-

People working on these areas as an aerospace engineer should have familiarity and exposure to NASTRAN and MATLAB with knowledge on space environment and modeling of flexible dynamics. These aerospace engineers will be responsible to conduct stress analysis on metallic and composite structures. NASTRAN, IDEAS, Oracle, and PATRAN proficiency level is required. Their duties also include on aircraft, which are metallic and composite structures. This includes and understanding of control surface stiffness and load calculations, finite element modeling (FEM), fatigue testing requirement and analysis.

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Question # 2

How important is to get the passengers switch off the mobile phones and laptop?

Answer:-

It is very important to check if laptop and mobile phones are switched off or not, as the consequences can be bad, because interference of air craft communication devices and electronic devices interfere with each other and there could be a chance of not proper landing. So, it is highly recommended that all electronic and communication devices should be switched off during take off and landing.

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Question # 3

Tell me why you want to join aviation?

Answer:-

Aviation industry is one of the fastest growing industry. Moreover it is also challenging. And you get chance to meet different people from different countries and from my childhood my interest is towards aviation industry only.

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Question # 4

What types of emergency landings are there?

Answer:-

There are three types of emergency landings like:

- * Forced landing
- * Precautionary landing
- * Ditching

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Question # 5

What is forced landing?

Answer:-

This is a situation where Air Craft engine fails and Pilot is forced to land the plane in the nearest airport.

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Question # 6

What is precautionary landing?

Answer:-

This is used when Pilot faces a problem due to severe weather conditions, or being lost in the air space traffic or due to lack of fuel or expecting an engine trouble.

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Question # 7



What is ditching?

Answer:-

This is when where Pilot cannot avoid this situation but to just land on water, which is safer than air bound.

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Question # 8

If your captain is not following the instructions properly what would you do?

Answer:-

Refer to your plane manual and discuss the same with your client and ensure you make him understand the procedures and rules. If he does not respond, you will call your concerned aircraft officer at the airport and escalate and make sure your voice frequency is recorded.

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Question # 9

What is the minimum descent rate you can descend the plane without air traffic control?

Answer:-

A Pilot can descend up to 500, bare minimum, without informing the ATC (Air Traffic Controller) and this is only during an exceptional cases. However, it's always better to be in regular touch with the Air Traffic Controller and to keep him informed about the descent rate. This will not have any traffic problems during landing in the runway.

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Question # 10

Tell me are you prepared for unexpected turbulence?

Answer:-

Yes, given the proper training, am confident that I will be able to handle the turbulence and will drive the plane in the correct altitude.

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Question # 11

Tell me when a pilot is assigned a speed, how much can one deviate from that speed?

Answer:-

Complying and following the actual speed adjustment policies, a pilot can run and indicate plus or minus 10 knots or 0.02 mach number of specified speed. Its always better to keep the land air officer in the loop before adjusting the air speed. Exceptions are always there to meet the emergency requirement.

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Question # 12

Do you know does the knowledge of mathematics or science is required to get into aerospace engineering?

Answer:-

The basic understanding of Math is important, as it is not used at all the time during the course of aerospace engineering. One should have a basic understanding of mathematical definitions and knowledge on computers is very important as the computer programs will help in doing simple calculations and verify the results are reasonable.

However, on the science front it is very important to have a very good understanding on various subjects like dynamics and mechanics in physics, strong emphasis on chemistry, electromagnetism. For a good engineer one should know how law of forces makes things happen. In addition, if you are good at physical sciences when opposed to life sciences like biology you will be a fit candidate for aerospace engineering.

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Question # 13

In the field of aerospace what is the requirement to become a Professional Engineer (PE)?

Answer:-

Professional Engineer license is required for people who aspire to go in as officially approved engineer. The design specification is done by self-employed people or working in small business. General aerospace engineers work for government or for big companies and hence few people are not very keen on becoming PE's. To become a PE one has to pass an exam on fundamentals of engineering which takes alot of hours to gruel and work under a licensed PE for about four years. In addition, they have to grow through a principle and practice of engineering exam, which requires about 8 hours.

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Question # 14

If your co-worker is not co-operating with you how would you handle?

Answer:-

Talk to your co-worker directly and explain him that you are having a problem working with him and make him understand the situation, if he is not willing to listen or not co-operating, then direct the issue to chief pilot.

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Question # 15

Tell me can you miss the clearance limit and loose the commands from the Air Craft?

Answer:-



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Yes, there is a policy and procedure to be followed for the missing clearance limit, so a Pilot can leave and reach a different altitude for sometime within the limit and should come back to the proper clearance limit once things are in control. This time limit is only as per the procedure in the manual.

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Question # 16

What is aeronautical engineering?

Answer:-

Aeronautical engineering deals with vehicles which operates in the atmosphere.

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Question # 17

What is astronautical engineering?

Answer:-

Astronautical engineer includes designing power systems for spacecraft structure, developing communications systems for distant space probes, developing hardware skills for operations in spacecraft, designing and testing robotic systems, developing new propulsion systems and computing optimum flight.

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Question # 18

Do you know what will be the responsibility of the spacecraft operations, dynamics, and controls?

Answer:-

People working on these areas as aerospace engineers should have familiarity and exposure to NASTRAN and MATLAB with knowledge on space environment and modeling of flexible dynamics. These aerospace engineers will be responsible to work in the areas of structural control, momentum control, line of sight (LOS), spacecraft mission design, control of space boards payloads, operational engineering.

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Question # 19

Do you know about the main areas in Aviation?

Answer:-

- * Aircraft's and parts
- * Ordinance and Military vehicles
- * Computers, electronic components, and systems
- * Aviation electronic/Avionics
- * Robotics
- * Satellites
- * Search and detection equipments
- * Strategic defensive initiative
- * Sensors and instrumentation
- * Ships
- * Space vehicles and commercialization of space
- * Advanced materials, composites and specialty metals
- * Computers, electronic components, and systems
- * Fighters and attack aircraft
- * Government defense policies and goals
- * Lasers
- * Navigation controls and guidance systems

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Question # 20

Can one deviate from any flight rules and regulations? When?

Answer:-

Chief Pilot in command can deviate from rules and regulations during emergency period; he can do it to get the plane back to the normalcy or to meet the expected requirement of the emergency.

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Question # 21

Aviation interview questions part 1:

Answer:-

- * Tell me about yourself?
- * What are your greatest strengths?
- * What is your greatest weakness?
- * Where do you see yourself in 5 years?
- * What led you to pursue your degree/industry?
- * What areas of this profession are you most interested in and why?
- * Why are you interested in this position?
- * What accomplishment has given you the greatest satisfaction and why?
- * What do you know about our company?
- * What do you know about this position?

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Question # 22

Aviation interview questions part 2:

Answer:-

- * What are your lifetime goals?
- * What did you learn in your last position?
- * What is your management style?
- * How well do you communicate in writing and orally? Give me some examples.
- * In what ways do you think you can make a contribution to this company?
- * How do you think other people describe you?
- * Why should I hire you?
- * How do you work under pressure?
- * Are you willing to travel? relocate?
- * What are your salary requirements?

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Question # 23

Aviation interview questions part 3:

Answer:-

- * What is your salary history?
- * What do you really want to do in life?
- * What are your long-range career objectives?
- * How do you plan to achieve your career goals?
- * What are the most important roles you expect in your business career?
- * Which is more important to you, the money or the type of job?
- * What motivates you to put forth your greatest effort?
- * What qualifications do you have that make you think that you will be successful in business?
- * How do you determine or evaluate success?
- * What do you think it takes to be successful in a company like ours?

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Question # 24

Aviation interview questions part 4:

Answer:-

- * In what ways do you think that you can make a contribution to our company?
- * What qualities should a successful manager possess?
- * What two or three accomplishments have given you the most satisfaction and why?
- * What kind of work environment are you most comfortable?
- * Why did you decide to seek a position with this company?
- * What two or three things are most important to you in your job?
- * Are you seeking employment in a company of a certain size? Why?
- * What criteria are you using to evaluate the company for which you hope to work?

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Question # 25

Aviation interview questions part 5:

Answer:-

- * Do you have a geographical preference? Why?
- * Are you willing to spend at least six months as a trainee?
- * Why do you think you might want to live in the community in which our company is located?
- * What have you learned from your mistakes?

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Question # 26

Aviation behavioral-based interview questions part 1:

Answer:-

- * Give me a recent example of a situation you have faced when the "pressure was on". What happened? How did you handle it?
- * Give me an example of a recent situation when you disagreed with someone on the job. What were your options for settling it? Why did you choose the option you did?
- * Give me an example of a decision you had to make quickly or under pressure. How did you approach it and how did it work out?
- * Tell me about a time when you had to go above and beyond the call of duty in order to get a job done?
- * Give me an example of an important goal that you had set in the past and tell me about your success in reaching it?
- * Describe a situation in which you were able to use persuasion to successfully convince someone to see things your way?

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Question # 27

Aviation behavioral-based interview questions part 2:

Answer:-

- * By providing examples, convince me that you can adapt to a wide variety of people, situations, and environments?
- * Describe a project you were responsible for starting. What did you do? How did it work out?
- * When, in a past job, did you find it important to disagree with your boss? How did you approach him/her and what was the result?



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- * Give me an example of a time when you had to manage multiple projects simultaneously. How did you prioritize them?
- * What major problem have you encountered and how did you deal with it?
- * Describe the relationship that should exist between a supervisor and subordinates?

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Question # 28

Aviation Job Interview Questions Part Four!

Answer:-

What are the tools used by Aerospace engineers?
How is the field of aerospace affecting the Environment system?
How is ECS related to Aerospace industry?
What are the benefits involved in Aerospace engineering?
What is the function of turbulence in airplane?
How can unexpected turbulence affect the airplane?
What is Navier Stokes?
What is the difference between calibration and non-calibration?
What are the requirements to join the Aerospace industry?
What are the functions of Brahmos Aerospace?

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Question # 29

Aviation Job Interview Questions Part Seven!

Answer:-

What are some characteristics that differentiate between a good pilot and bad pilot?
What are the precautions taken during landing in low visibility?
Describe the instrument approach to minimums?
Explain few Instrument flight rules for the aircraft operations?
What are the necessary things kept in mind while flying in snow conditions?
What do you understand by stress analysis?
If mobile phones are not switched off during the flight, what might happen?
What are the different types of emergency landings present?
What is the minimum decent rate of the aircraft?
What is the maximum and minimum range of speed assigned for flying?

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Question # 30

Aviation Job Interview Questions Part Ten!

Answer:-

What is the impact of aviation on climate?
What do you think about aviation industry being the highest contributor in pollution?
Is aviation a major reason behind global warming?
What do you think about the increase in sources of greenhouse gases due to aviation industry?
How effective is offsetting of flights?
How does the process of offsetting works?
What are the different measures to calculate CO2 emission produced by flights?
Why is it not mandatory for the aviation industry to pay fuel tax?
What are the actions taking place to reduce the emission caused by aviation industry?
What is the "smoke" that comes out of the engine of aircraft?

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Question # 31

Aviation Job Interview Questions Part Nine!

Answer:-

What are the alternate fuel resources to be used for aircrafts?
Does the pilot have to have certain amount of vision to fly an aircraft? What is the range of the vision that is allowed?
What kind of skills are required by pilots?
What are the different kinds of safety measures required during the flight?
What is the procedure to create a license?
What are the risk factors need to be kept in mind while flying an aircraft?
How is the complexity of the aircraft increased over time?
What are the responsibilities that have to be taken while in the industry?
What are the necessary requirements need to be kept in mind while joining this career?
What are the benefits involved in being a commercial pilot?

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Question # 32

Aviation Job Interview Questions Part Three!

Answer:-

What are the duties involved for Aerospace Ground Equipment mechanic?
What are the services provided by the airplane?
How does the missile defense system works?



How is aerospace engineering related to scientific inquiry?
What are the technologies involved in aerospace field?
What are the parameters that are required to measure loss factor?
What is the isolation efficiency theory?
What are the different types of damping that are present?
What is the role of electronic media in Aerospace industry?
What does the term brush pass means?

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Question # 33

Aviation Job Interview Questions Part Five!

Answer:-

What is the function of MMU unit used in Aerospace?
How to setup multiple input/output vibration tests?
Define the architecture of Aerospace industry?
What is the difference between operating and dry operating weight of an aircraft?
What is the difference between regenerative cooling and normal cooling?
What is the function of line replaceable unit?
What does an Aerospace team consist of?
What is the correct skill set required for Aerospace industry?
What are the elements that Aerospace consists of?
What are the different types of elements present in Aerospace engineering?

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Question # 34

Aviation Job Interview Questions Part Two!

Answer:-

What are the abilities one should have to excel in the field of aerospace?
What is the process of manufacturing an airplane?
How does aerospace industry provide different flexibility options in meeting the high end requirements?
What is the difference between aerospace engineering and aerospace electronics?
How to analyze aerodynamics performance?
How to measure excitation frequency in terms of aerospace engineering?
Why is coulomb damping used?
What are the methods that can be derived to reduce the noise?
What are the different fields that are included in Aerospace?
What are the steps involved in strategic defense?

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Question # 35

Aviation Job Interview Questions Part One!

Answer:-

What are the main areas/fields in aerospace?
What are the responsibilities of an aerospace engineer?
What does one require to become a professional engineer in aerospace?
What are the tools used by aerospace engineers?
What are the advantages and disadvantages of aerospace industry?
What is composite manufacturing? Is it better than aerospace industry?
What are the differences between aerospace and avionics?
What is electronic warfare? What are its three elements?
List the differences between an aeronautical engineer and an astronautical engineer.
Does science and mathematics play an important part in the field of aerospace engineering?

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Question # 36

Aviation Job Interview Questions Part Six!

Answer:-

Why is it required to have a professional degree in the field of Aerospace?
What are the different areas present in aviation industry for the growth in career?
What are the rules and regulations that have to be followed by the pilot while flying a plane?
What is the function of carburetor?
From where does aircrafts get electricity to perform their proper functions?
How can you recover from a tail plane stall?
What is the process by which the fuel gets injected into the engine?
What are the different types of air traffic control present?
What are the pollutants being released by aircraft and at what altitudes?
What are the different types of instructions that have to be passed to the passengers for their safety?

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Question # 37

Aviation Job Interview Questions Part Eight!



Answer:-

What are the steps to be taken in the case of emergency during flying?

What are the new changes taking place in aviation industry?

What actions will you take if you find the flight captain drunk before takeoff?

If you will see someone smoking and drinking in the flight, what will you do?

What actions will you perform if you see smoke coming out of the cockpit?

What are the steps you will take to ensure the safety of the people taking the flight?

What is VFR or Visual Flight Rules designed for?

What are the different types of navigation systems used in aviation?

How do you define the balanced field length?

What are the different types of engines used by aircraft carriers?

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