

# **Aeronautical Engineering Interview Questions And Answers Guide.**



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# Aeronautical Engineering Job Interview Preparation Guide.

## Question # 1

Explain how you overcame a major obstacle?

### Answer:-

To overcome obstacle, one should have strong determination and self confidence on himself / herself. They have to face life as it comes.

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## Question # 2

Explain the differences between Aeronautical Engineering and astronautically engineering?

### Answer:-

Aeronautical engineering deals with vehicles which operates in the atmosphere

Aeronautical engineering deals with vehicles operating in space. Aeronautical engineering works on tunnel tests, analyzing flight test data, manned space flights, planning future space missions, spacecraft operations, designing and testing robotic systems, developing new propulsion system, computing optimum flight trajectories, developing communication systems for distance space probes and designing new rockets. 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 # 3

Can you miss the clearance limit and loose commands from the Air Craft Officer?

### Answer:-

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 # 4

Can a carbon dioxide gas use as fuel source?

### Answer:-

Due to new and utterly inefficient techniques, carbon dioxide can be broken down into oxygen and carbon monoxide. this carbon monoxide can then be used to produce plastics and gas.

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## Question # 5

What is yawing motion?

**Answer:-**

yawing motion means the side ways motion aircraft about the lateral axis.in otherwords side to side motion of aircraft.

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**Question # 6**

Does not simplification of complex honeycomb designed for thermal protection system of are usable launch vehicles jeopardize the accuracy of results?

**Answer:-**

It jeopardize the accuracy but it also has some advantages but cannot be used due to its inaccuracy.

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**Question # 7**

What is a liquid metal?

**Answer:-**

Mercury

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**Question # 8**

Which is the high thrust producing jet engine?

**Answer:-**

ramjet engine

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**Question # 9**

Are thermal protection systems of space crafts commonly composed of one panel or a collection of smaller tiles?

**Answer:-**

Thermal protection system of space crafts will be of tiles which are made up of ceramics and ceramic composites to with stand thermal shocks and to avoid cracks it is used as tiles.

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**Question # 10**

Explain the day to day responsibilities of Aerospace engineering?

**Answer:-**

Each job profile even in aerospace industry differs from others. To mainly speak about aerospace there are two branches or field. One is aeronautical and other is astronautically engineering.

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**Question # 11**

When 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**

What is ram jet?

**Answer:-**

It is a jet engine with no moving parts, only fuel sprayed and burned.

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**Question # 13**

What is the highest temperature the space shuttle undersurface experiences during its mission?

**Answer:-**

Under surface of the space shuttle will experience above



2300'c at the time of re-entering.

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### Question # 14

Tell me How would you handle if your co-worker is not co-operating with you?

#### 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

Without Air Traffic Control, what is the minimum descent rate can descend the plane?

#### 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 # 16

Rotation of dc shunt motor is revers by using 2 methods,which method is best and why?

#### Answer:-

reversing the armature terminal is better & applied in practice.this is becoz of the following drawbacks in field reversing method.

\* high voltage build-up during reversing the field terminal which is high enough to puncture the insulation of field coil.

\* high flash-over will occur.

\* during reversal, the armature current should be limited to the rated value,otherwise it will draw twice the time of starting current.we can insert the external resistance to limit the current while reversing the armature terminal.whereas,in field reversal we cannot give any provision to limit armature over current.

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### Question # 17

How the vfd is working?

#### Answer:-

VFD having 3 main section namely Rectifier , DC bus, Inverter.

by Rectifier input supply AC is converted to DC , In the section main part is pulse also getting change by no. of Diodes.

In DC bus section having capacitor , in this capacitor the power is getting store.

In Inverter section the DC is converted to AC and the supply

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### Question # 18

Why airline prefer beautiful girls for hostesses?

#### Answer:-

There are different kind of people travel in a airlines we dont know about them? sum people may act violent normally girls soft nature? so the airlines prefer girls y there prefer a beautiful girls? to impress a customer so airline prefer beautiful girls for hostesses

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### Question # 19

What type of bearing used in bell helicopters?

#### Answer:-

Elastomeric bearings that Elastomeric bearings are bearings constructed from a rubber type material and have limited movement that is perfectly suited for helicopter applications.



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### Question # 20

Explain What are the main areas in Aviation?

**Answer:-**

Artificial intelligence  
Aircrafts and parts  
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  
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

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### Question # 21

Explain What made you choose aerospace engineer line as your career?

**Answer:-**

In aerospace engineering there are lots of interesting topics which include rocketry, aero planes, Lego's. As a school student I started sketching for future aircraft and space craft, military aircraft. I analyzed the importance of space travel, aviation history, and aerospace industry and hence decided to get into this field.

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### Question # 22

What do you understand by Aerodynamics/performance analysis?

**Answer:-**

Aerodynamics / performance analysis in military programs include responsibility like analyzing aerodynamics impacts which effects from external modifications, developing mission profiles based on requirements from the customer, performance data of the mission which includes take off and landing details, en route and mission data performance. Analyze the configurations using the dynamics which are fluid and computational. Additional task may include support for wind tunnel planning for test flight. Documentation, test support, data analysis should be done on regular basis. Co ordination of aerodynamics with multi discipline teams and data should be provided for support flight management system or mission planning software.

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### Question # 23

Explain What will be the responsibility of the spacecraft operations, dynamics and controls?

**Answer:-**

People working on these areas as a 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 # 24

Tell me about stress analysis?

**Answer:-**

People working on these areas as a 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 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 loop calculations, finite element modeling (FEM), fatigue testing requirement and analysis.

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### Question # 25

Explain What is the testing done in aerospace engineering?

#### Answer:-

The testing of small rocket engines and entails development by researching on aerospace. They are responsible to perform and experiment on laboratory facility which is dedicated to aerospace. One should be capable of solving problems by applying knowledge by solving problem of the research done. They will be working with technical team of researchers and they should have ability handle projects alone.

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### Question # 26

Explain When can one deviate from any flight rules and regulations?

#### 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 # 27

HOW WE WANT 2 STUDY AERONAUTICAL?

#### Answer:-

aeronautical is not the thing to study it's the thing to understand the concept that how to fly:-) obviously in every college aero students are the best one's in all disciplines

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### Question # 28

How the shockwave produced in aerofoil, and actually what happen that region?

#### Answer:-

Shock Only at supersonic speed  
Message (about aircraft presence downstream) waves go upstream at the speed of sound.  
But Aircraft goes more than the speed of sound. (supersonic)  
Before upstream air get the message about aircraft presence, air encounter the aircraft.  
No time to adjust the airflow, Hence Shock!

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### Question # 29

1) what distance should be maintained between networking (data) cable & power cable if both cables are run in a separate conduit pipe parallelly?  
2) what happens if networking cable & power cable run parallel to each other, even though they run in a separate conduit pipes?

#### Answer:-

POWER CABLE IS HAVING SOME HIGH MAGNITUDE, IF THE SIGNAL CABLE YOU ARE PLACING NEARER TO THE POWER CABLE, DUE TO THE MAGNITUDE (MUTUAL INDUCTANCE) THAT DATA CABLES ARE GETTING SOME SIGNAL FROM THE POWER CABLE. YOU REMEMBER THAT DATA CABLE SIGNAL FROM 1.5 VOLT TO 12 V HIGHLY SENSITIVE. THAT MAGNITUDE ENOUGH TO GENERATE THE TRIGGER VOLTAGE ON DATA CABLE. THEN SOME WRONG FUNCTION WILL HAPPEN INTO THAT RELATED CIRCUITS.

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### Question # 30



What is the difference between stress and pressure?

**Answer:-**

when the external force is applied on the elastic body, the body will deform from its original position. there will be an internal resistance force which will act opposite to the external force with the same magnitude. the internal resistance force per unit area is called stress.....  
pressure is the force which will act normal to the surface and all over the surface.....

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**Question # 31**

How can we draw design the airfoils using NACA series?

**Answer:-**

simply download naca series coordinates its available on net ..start plotting..at coordinates,,and also templates all available

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**Question # 32**

Why refrigeration is done inside aircraft, and why aircraft body is made of aluminum?

**Answer:-**

This is the combined effect low pressure & speed of plane in sky. Body of aircraft is made up of aluminum due to its good tensile strength & good conductor.

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**Question # 33**

Tell me What is the requirement to become a Professional Engineer (PE) in the field of Aerospace?

**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 a lot of hours to gruel and work under a licensed PE for about four years. Also they have to grow through a principle and practice of engineering exam which requires about 8 hours.

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**Question # 34**

Explain What would you do if your Captain is not following the instructions properly?

**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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