

Precision Aircraft Structure Assembler Interview Questions

1. Describe how you assemble, install, and connect parts, fittings, and assemblies on aircraft, using layout tools, hand tools, power tools, and fasteners such as bolts, screws, rivets, and clamps.

2. Share with me how you read and interpret blueprints, illustrations, and specifications to determine layouts, sequences of operations, or identities and relationships of parts.

3. Talk me through how you attach brackets, hinges, or clips to secure or support components or subassemblies, using bolts, screws, rivets, chemical bonding, or welding.

4. Tell me about how to adjust, repair, rework, or replace parts and assemblies to eliminate malfunctions and to ensure proper operation.

5. Describe your methods used to align, fit, assemble, connect, or install system components, using jigs, fixtures, measuring instruments, hand tools, or power tools.

6. Tell me about a recent experience you've had working with your hands.

7. Share an experience when you applied new technology or information in your job. How did it help your company?

8. Tell me about an experience in which you analyzed information and evaluated results to choose the best solution to a problem.

9. In your experience, what is the key to ensuring your company was compliant with all laws, regulations and standards that were applicable to your area of responsibility?

10. Tell me about the last time you monitored or reviewed information and detected a problem. How did you respond?

11. Describe how you align and fit structural assemblies manually, or signal crane operators to position assemblies for joining.

12. Tell me about techniques used to cut, trim, file, bend, and smooth parts, and verify sizes and fitting tolerances in order to ensure proper fit and clearance of parts.

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13. Explain how you would position and align subassemblies in jigs or fixtures, using measuring instruments and following blueprint lines and index points.

14. Walk me through how you set, align, adjust, or synchronize aircraft armament or rigging or control system components to established tolerances or requirements using sighting devices and hand tools.

15. Explain what method you would use to layout and mark reference points and locations for installation of parts or components, using jigs, templates, or measuring and marking instruments.

16. Tell me about your procedures when cleaning aircraft structures, parts, or components, using aqueous, semi-aqueous, aliphatic hydrocarbon, or organic solvent cleaning products or techniques to reduce carbon or other harmful emissions.

17. How are your skills when fabricating parts needed for assembly or installation, using shop machinery or equipment?

18. Describe an experience installing and connecting control cables to electronically controlled units, using hand tools, ring locks, cotter keys, threaded connectors, turnbuckles, and related devices.

19. Walk me through how you would inspect or test installed units, parts, systems, or assemblies for fit, alignment, performance, defects, or compliance with standards, using measuring instruments or test equipment.

20. Describe how to fit and fasten sheet metal coverings to surface areas or other sections of aircraft prior to welding or riveting.

21. Explain to me how to set up or operate machines or systems to crimp, cut, bend, form, swage, flare, bead, burr, or straighten tubing, according to specifications.

22. Tell me about the process of cleaning, oil, or coat system components as necessary before assembly or attachment.

23. What techniques are used to install mechanical linkages and actuators, and verify tension of cables, using tensiometers?

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24. Share how to weld tubing and fittings or solder cable ends, using tack-welders, induction brazing chambers, or other equipment.

25. Expound on how to mark identifying information on tubing or cable assemblies, using etching devices, labels, rubber stamps, or other methods.

26. Tell me ways to verify dimensions of cable assemblies or positions of fittings, using measuring instruments.

27. Provide an example when your ethics were tested.

28. Share an experience in which your attention to detail and thoroughness had an impact on your last company.

29. Please explain how you would form loops or splices in cables, using clamps and fittings, or reweave cable strands.

30. Provide an experience where you had to select and install accessories in swaging machines, using hand tools.

31. Share an experience you had in dealing with a difficult person and how you handled the situation.

32. Provide a time when you worked in a rapidly evolving workplace. How did you deal with the change? (Make sure the candidate is flexible.)

33. Share an experience in which your understanding of a current or upcoming problem helped your company to respond to the problem.

34. Share an experience in which you successfully shared a difficult piece of information. (Make sure that the candidate has open lines of communication.)

35. Name a time when your patience was tested. How did you keep your emotions in check?

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36. Share a time when you willingly took on additional responsibilities or challenges. How did you successfully meet all of the demands of these responsibilities? (Make sure the candidate is a self-starter and can demonstrate some initiative.)

37. Provide an example of when you were persistent in the face of obstacles.

38. Share an example of when you established and accomplished a goal that was personally challenging. What helped you succeed?

39. Share an experience in which your ability to consider the costs or benefits of a potential action helped you choose the most appropriate action.

40. Tell me about a time when you successfully determined the cause of an operating error at your company and solved the problem.

41. Provide a time when you were able to identify a complex problem, evaluate the options, and implement a solution. How did the solution benefit your employer?

42. Name a time when you identified strengths and weaknesses of alternative solutions to problems. What was the impact?

43. Provide a time when you dealt calmly and effectively with a high-stress situation.

44. Share an experience in which personal connections to coworkers or others helped you to be successful in your work. (Make sure candidate works well with others.)

45. Provide an experience in which you were sensitive to someone's needs or feelings. How did your helpfulness affect your work environment?

46. Name a time when your creativity or alternative thinking solved a problem in your workplace.

47. What have you found to be the best way to monitor the performance of your work and/or the work of others? Share a time when you had to take corrective action.

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48. Share an experience in which your willingness to lead or offer an opinion helped your company.

49. Describe a time when you successfully serviced, repaired, or tested a machine or device that operates mainly by mechanical principles.

50. Provide an example of a time when you were able to demonstrate excellent listening skills. What was the situation and outcome?

51. Provide an experience that demonstrates your ability to manage time effectively. What were the challenges and results?

52. Describe an experience in which you successfully controlled the operation of a difficult system. What made you successful?

53. Share an experience in which you successfully installed a difficult piece of equipment. What made the situation so difficult?

54. Tell me how you organize, plan, and prioritize your work.

55. Please share an experience in which you successfully taught a difficult principle or concept. How were you able to be successful?

56. Share an experience in which you successfully coordinated with others. How about a coordination effort that was not as successful?

57. Share an experience in which you used new training skills, ideas, or a method to adapt to a new situation or improve an ongoing one. (Look for the candidate's ability to learn.)

58. Give me an example of when you thought outside of the box. How did it help your employer?