

Structures Mechanic 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.