

Mechanical Developer Prover Interview Questions

1. Describe what procedures used to examine and inspect aircraft components, including landing gear, hydraulic systems, and deicers to locate cracks, breaks, leaks, or other problems.
2. Walk me through how you conduct routine and special inspections as required by regulations.
3. Explain which methods are used to Inspect completed work to certify that maintenance meets standards and that aircraft are ready for operation.
4. Share with me how you read and interpret maintenance manuals, service bulletins, and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components.
5. What have you found to be the best way to maintain repair logs, documenting all preventive and corrective aircraft maintenance?
6. Explain ways to best maintain, repair, and rebuild aircraft structures, functional components, and parts such as wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets, and seals.
7. Walk me through a test operation of engines and other systems, using test equipment such as ignition analyzers, compression checkers, distributor timers, and ammeters.
8. In your opinion, how often should you obtain fuel and oil samples and check them for contamination?
9. Share an experience you had in dealing with a difficult person and how you handled the situation.
10. Share an experience in which you successfully shared a difficult piece of information. (Make sure that the candidate has open lines of communication.)
11. Tell me about your qualifications for and your experience handling vehicles and/or mechanized equipment.
12. Tell me about a recent experience you've had working with your hands.
13. Tell me how you organize, plan, and prioritize your work.

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

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

16. Share an experience in which you conducted a test of a product, service, or process and successfully improved the quality or performance.

17. Tell me about your last experience doing repair work. How did you determine what tools you needed?

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

19. Tell me about the last time you performed routine maintenance on equipment. How did you determine when and what type of work was needed?

20. Would you consider analyzing data or information a strength? How so?

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

22. Describe an experience where you checked for corrosion, distortion, and invisible cracks in the fuselage, wings, and tail, using x-ray and magnetic inspection equipment. How did you handle a failed inspection?

23. Share an example of when you went above and beyond the "call of duty". (Look for answers that show the candidate is dependable.)

24. Expound on how to Inspect airframes for wear or other defects.

25. 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?

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26. Provide an example when your ethics were tested.

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27. What is your experience in replacing repairing worn, defective, or damaged components, using hand tools, gauges, and testing equipment?

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28. Share with me how to measure parts for wear, using precision instruments.

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29. Walk me through how you disassemble engines and inspect parts, such as turbine blades and cylinders, for corrosion, wear, warping, cracks, and leaks, using precision measuring instruments, x-rays, and magnetic inspection equipment.

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30. Tell me about your experience assembling and installing electrical, plumbing, mechanical, hydraulic, and structural components and accessories, using hand or power tools.

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