

Jeppesen's Airframe Oral & Practical (O&P) Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	6
Answers	9
Explanations	11
Next Steps	17

Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Don't worry about getting everything right, your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations, and take breaks to retain information better.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning.

7. Use Other Tools

Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly — adapt the tips above to fit your pace and learning style. You've got this!

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Questions

- 1. Which of these is a feature of secondary flight controls?**
 - A. They manipulate engine power**
 - B. They assist pilots with control movements**
 - C. They are solely responsible for aircraft speed**
 - D. They are the main controls for directional changes**
- 2. What are the two critical calculations involved in bending sheet metal?**
 - A. Bend allowance and thickness**
 - B. Setback and bend radius**
 - C. Bend allowance and setback**
 - D. Thickness and width**
- 3. Why might an aircraft require a jettison system beyond the maximum landing weight?**
 - A. To reduce maintenance costs**
 - B. To enhance engine performance**
 - C. To meet regulatory requirements**
 - D. To ensure safe landing**
- 4. What is the purpose of a bonding jumper from the radio shock mount to the airframe?**
 - A. To enhance radio frequency output**
 - B. To provide a low-impedance ground return**
 - C. To minimize the mass of the radio system**
 - D. To increase signal strength**
- 5. What is the effect of inadequate penetration on a weld?**
 - A. The weld will be weak**
 - B. The weld will be overly strong**
 - C. The weld will appear shiny**
 - D. The weld will have a smooth finish**

- 6. What component can act to restrict airflow in a pneumatic system?**
- A. A regulator**
 - B. A valve**
 - C. A restrictor**
 - D. A compressor**
- 7. What finishing defect is likely if the paint room temperature is too warm?**
- A. Pinholes or blisters**
 - B. Cracking or peeling**
 - C. Uneven color distribution**
 - D. Fading or discoloration**
- 8. What is the primary purpose of painting in aerospace applications?**
- A. To improve aerodynamics**
 - B. To enhance the aesthetics of the aircraft**
 - C. To protect the surface from corrosion**
 - D. To waterproof the material**
- 9. What safety precaution must be taken when removing a wheel from an axle?**
- A. Ensure the wheel is securely fastened**
 - B. Verify that the tire is completely deflated before removing a wheel from an axle or before wheel disassembly**
 - C. Use special tools for wheel removal**
 - D. Check for corrosion on the axle**
- 10. What is a key benefit of using bladder-type fuel cells?**
- A. They allow for easy maintenance**
 - B. They can expand with temperature changes**
 - C. They reduce the likelihood of fuel leaks**
 - D. They can be easily replaced**

Answers

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1. B
2. C
3. D
4. B
5. A
6. C
7. A
8. C
9. B
10. C

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Explanations

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1. Which of these is a feature of secondary flight controls?

- A. They manipulate engine power**
- B. They assist pilots with control movements**
- C. They are solely responsible for aircraft speed**
- D. They are the main controls for directional changes**

Secondary flight controls are designed to enhance the handling characteristics of an aircraft and assist the pilots with control movements. Unlike primary flight controls, which include ailerons, elevators, and rudders that directly control the aircraft's pitch, roll, and yaw, secondary flight controls such as flaps, slats, and spoilers serve to modify the aircraft's aerodynamic properties, making it easier for pilots to manage the aircraft in various flight conditions. By providing additional lift, reducing stall speeds, or increasing drag, these secondary controls enable more precise handling and can also aid in landing and takeoff performance. Their primary purpose is to support and enhance the pilot's ability to control the aircraft rather than serve as standard control inputs. The other options refer to functions that are not aligned with the purpose of secondary flight controls. For example, manipulating engine power is more related to thrust management, and speed is typically controlled through throttle inputs and not solely dependent on secondary controls. Similarly, the main controls for directional changes are specifically the primary flight controls, which have a direct impact on the aircraft's navigation and orientation in the sky.

2. What are the two critical calculations involved in bending sheet metal?

- A. Bend allowance and thickness**
- B. Setback and bend radius**
- C. Bend allowance and setback**
- D. Thickness and width**

In sheet metal fabrication, two critical calculations are bend allowance and setback. Bend allowance refers to the amount of elongation that occurs in the material during the bending process. It accounts for the additional length that must be added to the flat layout of the sheet metal in order to achieve the desired angle after bending. This calculation is essential for ensuring that the final dimensions of the part are accurate. Setback, on the other hand, is the distance from the bend line to the tangent point of the bend. It is important because it helps determine how far from the bend line the material must be cut to accurately account for the bend, ensuring the final part meets design specifications. Both bend allowance and setback are fundamental to creating parts that fit together correctly, enabling the manufacturer to predict how the metal will behave during and after the bending process, and to ensure that parts will fit together once assembled.

3. Why might an aircraft require a jettison system beyond the maximum landing weight?

- A. To reduce maintenance costs**
- B. To enhance engine performance**
- C. To meet regulatory requirements**
- D. To ensure safe landing**

An aircraft may require a jettison system beyond the maximum landing weight primarily to ensure a safe landing. In scenarios where an aircraft has to return to the airport shortly after takeoff or experiences an emergency, it may not be able to safely land at its current weight. Landing an aircraft above its maximum landing weight can compromise structural integrity and performance, leading to potential issues such as tire blowouts or landing gear failure. A jettison system allows pilots to intentionally release fuel or cargo in a controlled manner, thereby reducing the aircraft's weight to within safe limits. This procedural capability is critical during emergency situations, as it enhances the aircraft's handling characteristics and ensures compliance with safety standards for landing.

4. What is the purpose of a bonding jumper from the radio shock mount to the airframe?

- A. To enhance radio frequency output**
- B. To provide a low-impedance ground return**
- C. To minimize the mass of the radio system**
- D. To increase signal strength**

The purpose of a bonding jumper from the radio shock mount to the airframe is primarily to provide a low-impedance ground return. This is crucial in preventing potential interference and ensuring that the radio equipment operates efficiently. A low-impedance ground helps to facilitate the effective transfer of electrical currents and minimizes the risk of electromagnetic interference, which could affect the radio's performance. When the jumper connects the shock mount securely to the airframe, it creates a reliable path for return currents and also helps to dissipate any static electricity or electromagnetic noise that might affect the radio signals. This function is vital for maintaining clear communications and overall system performance in an aircraft, particularly in environments with significant electrical noise. Other options, such as enhancing radio frequency output or increasing signal strength, do not directly relate to the purpose of the bonding jumper, as those aspects are more about the design and engineering of the radio system itself rather than the grounding and mounting process. Minimizing the mass of the radio system also does not reflect the function of the bonding jumper, since its primary role is focused on electrical grounding rather than weight reduction.

5. What is the effect of inadequate penetration on a weld?

- A. The weld will be weak**
- B. The weld will be overly strong**
- C. The weld will appear shiny**
- D. The weld will have a smooth finish**

Inadequate penetration in a weld refers to a situation where the weld metal does not adequately fuse or penetrate into the base materials being joined. This can lead to a weak joint, as the lack of fusion means that the weld cannot develop the necessary strength to withstand loads that the finished assembly might encounter. A weld that does not penetrate sufficiently often results in defects that compromise the overall integrity of the weld, making it vulnerable to failure under stress. In contrast, an overly strong weld would imply that the weld metal penetrated more than necessary, which is not typically associated with inadequate penetration. A shiny appearance or a smooth finish are more related to the surface quality and the method of welding rather than the integrity of the weld itself. Therefore, the weak nature of a weld due to inadequate penetration is crucial in understanding the importance of achieving proper penetration during the welding process to ensure safety and reliability in welded components.

6. What component can act to restrict airflow in a pneumatic system?

- A. A regulator**
- B. A valve**
- C. A restrictor**
- D. A compressor**

In a pneumatic system, a restrictor is specifically designed to limit or control the flow of air through the system. By doing so, it can regulate the pressure and flow rates to ensure that the system operates efficiently and safely. The restrictor creates a deliberate constriction in the airflow, effectively reducing the volume of air passing through at any given moment. This is crucial in applications where precise control of air pressure or speed is necessary, such as in actuators or controlled air systems. In contrast, while components like regulators and valves also manage airflow, their primary functions differ. A regulator maintains a constant pressure level, adjusting flow automatically based on demand. A valve, meanwhile, can open or close to allow or stop airflow but does not have the specific function of restricting flow to the degree or purpose of a restrictor. A compressor generates airflow but does not restrict it; rather, it increases the pressure of the air in the system.

7. What finishing defect is likely if the paint room temperature is too warm?

- A. Pinholes or blisters**
- B. Cracking or peeling**
- C. Uneven color distribution**
- D. Fading or discoloration**

When the paint room temperature is too warm during the application process, the most likely finishing defect that can occur is pinholes or blisters. With high temperatures, the paint tends to dry too quickly, which can trap air bubbles within the paint film. As the paint dries, these bubbles may not escape, leading to the formation of small holes or blisters on the surface of the paint finish. This not only affects the aesthetic quality of the paint but can also compromise the overall durability and protection it provides. Other issues that could arise in a high-temperature environment include cracking or peeling and uneven color distribution, but these defects are often related to other factors such as improper application or insufficient surface preparation, rather than solely temperature. Fading or discoloration is typically a long-term effect related to exposure over time rather than an immediate concern during the application process. Therefore, pinholes or blisters are the specific defect most directly linked to high paint room temperatures.

8. What is the primary purpose of painting in aerospace applications?

- A. To improve aerodynamics**
- B. To enhance the aesthetics of the aircraft**
- C. To protect the surface from corrosion**
- D. To waterproof the material**

The primary purpose of painting in aerospace applications is to protect the surface from corrosion. Paint serves as a protective barrier against environmental elements such as moisture, salt, and other corrosive substances that can lead to deterioration of the aircraft's structure. This protective coating not only prolongs the life of the aircraft by minimizing the impact of corrosion but also helps maintain the structural integrity of components made from materials like aluminum, which are particularly susceptible to corrosion. While paint may also influence aspects of aerodynamics or enhance the aesthetics of the aircraft, those are secondary benefits. Waterproofing is less of a primary function since aircraft are designed with materials and processes to handle moisture inherently; therefore, paint's foremost role centers on safeguarding against corrosion and promoting longevity.

9. What safety precaution must be taken when removing a wheel from an axle?

- A. Ensure the wheel is securely fastened**
- B. Verify that the tire is completely deflated before removing a wheel from an axle or before wheel disassembly**
- C. Use special tools for wheel removal**
- D. Check for corrosion on the axle**

When removing a wheel from an axle, it is crucial to verify that the tire is completely deflated before proceeding with the disassembly. This is essential because an improperly deflated tire can lead to an unexpected release of pressure, which poses risks of injury due to sudden bursts or flying debris. A fully deflated tire will prevent this hazardous situation, allowing the mechanic to handle the wheel safely and without the risk of a tire explosion. Other safety precautions, such as ensuring the wheel is securely fastened or checking for corrosion on the axle, are important maintenance steps but do not address the immediate risks associated with tire pressure during wheel removal. Using the appropriate tools is also a standard practice to ensure efficient and safe operations, but it does not mitigate the potential danger posed by a pressurized tire. Hence, verifying the tire's complete deflation is the key safety precaution to minimize risk and ensure safe handling.

10. What is a key benefit of using bladder-type fuel cells?

- A. They allow for easy maintenance**
- B. They can expand with temperature changes**
- C. They reduce the likelihood of fuel leaks**
- D. They can be easily replaced**

Using bladder-type fuel cells significantly reduces the likelihood of fuel leaks due to their design and materials. Bladder-type fuel cells consist of flexible bladders that can conform to the shape of the fuel tank, allowing for efficient use of space and minimizing the potential for leaks. This design effectively accommodates thermal expansion and contraction of the fuel, preventing openings that could lead to leaks. The materials used in bladder-type fuel cells are often resistant to fuel permeation, which further enhances their ability to maintain seal integrity and prevent leaks. Additionally, the controlled environment in which these bladders operate means that they can absorb some degree of fuel movement and pressure changes, making them a robust choice for ensuring fuel containment. Maintaining the integrity of fuel systems is crucial for safety, and the leak reduction capability of bladder-type fuel cells makes them a preferred option in aviation fuel systems.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://jeppesenairframeoandp.examzify.com>

We wish you the very best on your exam journey. You've got this!