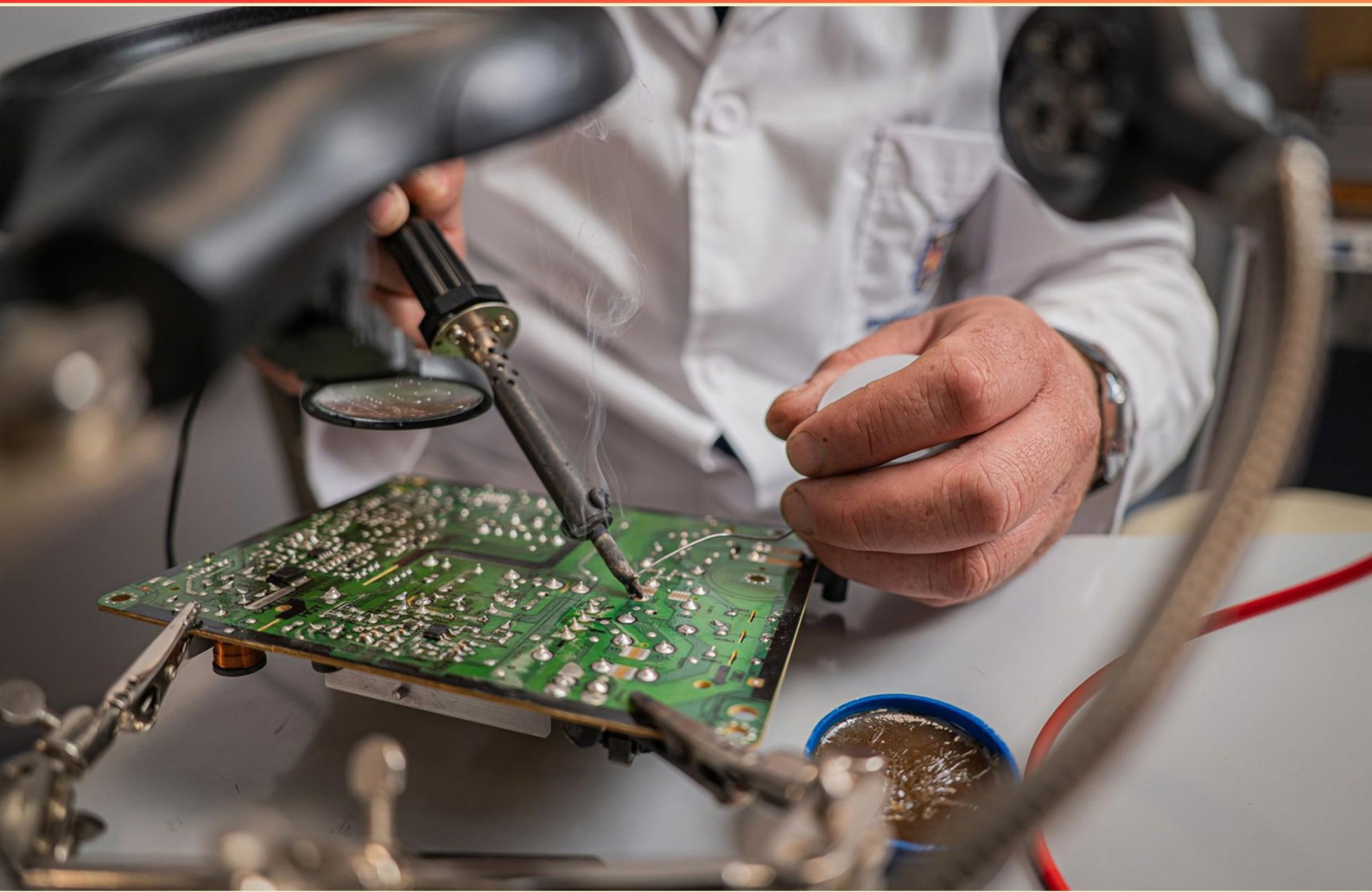


FAA AMT (AVIATION MAINTENANCE TECHNICIAN) AIRFRAME PRACTICE EXAM (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE

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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. 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.

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. 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!

Questions

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- 1. What reduces the air pressure between the engine and reservoir in a hydraulic system pressurized with turbine engine compressor bleed air?**
 - A. Air pressure regulator
 - B. Hydraulic fluid filter
 - C. Air compressor unit
 - D. Pressure relief valve

- 2. What procedure should be followed if the pressure of a fire extinguisher container is not within the minimum and maximum limits?**
 - A. Refill the extinguisher container.
 - B. Perform a pressure test.
 - C. Replace the extinguisher container.
 - D. Check for leaks and repair if necessary.

- 3. What is one of the main advantages of Hi-Lok type fasteners?**
 - A. They require special tools for installation
 - B. They are cheaper than other fasteners
 - C. They can be installed with ordinary hand tools
 - D. They are lighter than other fasteners

- 4. What is the operating principle of the sensing device used in an autopilot system?**
 - A. Electrical resistance change
 - B. Magnetic field variation
 - C. The relative motion between a gyro and its supporting system
 - D. Pressure differential

- 5. How is cold air supplied in some turbine aircraft where hot compressor bleed air operates the conditioned air system?**
 - A. By opening the vent windows
 - B. By the air cycle machine turbine
 - C. Through liquid cooling systems
 - D. Using external air sources

- 6. If a shock strut bottoms after it has been properly serviced, what should be done?**
- A. Continue using it until the next scheduled maintenance
 - B. Refill it with more fluid immediately
 - C. Strut should be removed, disassembled, and inspected
 - D. Apply more air pressure to compensate
- 7. Which seals are used with vegetable base hydraulic fluids?**
- A. Buna-N
 - B. Silicone
 - C. Natural rubber
 - D. Polyurethane
- 8. Cases for electrically operated instruments are made of**
- A. Plastic
 - B. Aluminum
 - C. Iron or steel
 - D. Carbon fiber
- 9. What is a certificated mechanic allowed to perform?**
- A. Major structural repairs
 - B. 100-hour inspections of instruments
 - C. Designing aircraft modifications
 - D. Pilot training
- 10. Which seals are used with petroleum base hydraulic fluids?**
- A. Natural rubber
 - B. Buna-N
 - C. Silicone
 - D. Polyurethane

Answers

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

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Explanations

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1. What reduces the air pressure between the engine and reservoir in a hydraulic system pressurized with turbine engine compressor bleed air?

- A. Air pressure regulator**
- B. Hydraulic fluid filter
- C. Air compressor unit
- D. Pressure relief valve

The other options are incorrect because B is a part of the hydraulic system but not specifically what reduces air pressure. C is incorrect because it adds air to the system rather than reducing air pressure. D is incorrect because it is designed to relieve abnormally high pressure, not reduce air pressure.

2. What procedure should be followed if the pressure of a fire extinguisher container is not within the minimum and maximum limits?

- A. Refill the extinguisher container.
- B. Perform a pressure test.
- C. Replace the extinguisher container.**
- D. Check for leaks and repair if necessary.

If the pressure of a fire extinguisher container is not within the minimum and maximum limits, the correct procedure to follow is to replace the extinguisher container. This is necessary because the pressure limits are crucial for the correct functioning of the fire extinguisher. If the pressure is outside the specified range, it can affect the performance of the extinguisher in case of an emergency. Therefore, replacing the container is the appropriate action to take in this situation. Option A is incorrect because simply refilling the extinguisher container will not address the underlying issue of the pressure being outside the acceptable limits. Option B is incorrect as performing a pressure test may not solve the problem with the existing container and its pressure. If the pressure is already outside the limits, conducting a test may confirm the issue but will not fix it. Option D is also incorrect as checking for leaks and repairing them will not necessarily resolve the problem of the pressure being outside the acceptable range. In such a situation, it is best to replace the container to ensure the fire extinguisher operates effectively when needed.

3. What is one of the main advantages of Hi-Lok type fasteners?

- A. They require special tools for installation
- B. They are cheaper than other fasteners
- C. They can be installed with ordinary hand tools**
- D. They are lighter than other fasteners

Hi-Lok type fasteners have the main advantage of being able to be installed with ordinary hand tools. This is a significant benefit as it simplifies and expedites the installation process compared to fasteners that require special tools. Hi-Lok fasteners are commonly used in aviation maintenance due to their ease of installation and reliability.

4. What is the operating principle of the sensing device used in an autopilot system?

- A. Electrical resistance change
- B. Magnetic field variation
- C. The relative motion between a gyro and its supporting system**
- D. Pressure differential

The operating principle of the sensing device used in an autopilot system is the relative motion between a gyro and its supporting system. This is because gyroscopes work based on the principle of conservation of angular momentum, where the rotor maintains its orientation regardless of the movement of the base. Additionally, gyroscopes provide accurate measurements of pitch, roll, and yaw, making it an ideal sensing device for an autopilot system. The other options are not correct because A) Electrical resistance change is not a standard operating principle for autopilot systems. This option may be applicable in other sensing devices, but not in this scenario. B) Magnetic field variation is not used in most autopilot systems as it may be influenced by external factors, making it less reliable. D) Pressure differential may be used in altitude or airspeed sensors but is not the primary operating principle in autopilot systems.

5. How is cold air supplied in some turbine aircraft where hot compressor bleed air operates the conditioned air system?

- A. By opening the vent windows
- B. By the air cycle machine turbine**
- C. Through liquid cooling systems
- D. Using external air sources

In some turbine aircraft, where hot compressor bleed air operates the conditioned air system, cold air is supplied by the air cycle machine turbine. The air cycle machine is a type of air conditioning system commonly used in aircraft. It operates by utilizing the hot compressor bleed air to remove heat from the cabin air and then supply cold air back into the cabin. Vent windows, liquid cooling systems, and external air sources are not the methods used to supply cold air in turbine aircraft with this type of air conditioning system.

6. If a shock strut bottoms after it has been properly serviced, what should be done?

- A. Continue using it until the next scheduled maintenance
- B. Refill it with more fluid immediately
- C. Strut should be removed, disassembled, and inspected**
- D. Apply more air pressure to compensate

If a shock strut bottoms after being properly serviced, it indicates a potential issue that requires further attention. Choosing option C, which states that the strut should be removed, disassembled, and inspected, is the correct course of action. This is necessary to assess the underlying problem that caused the shock strut to bottom out and to ensure that it is properly addressed. Simply continuing to use the strut until the next scheduled maintenance (option A), refilling it with more fluid immediately (option B), or applying more air pressure to compensate (option D) could lead to safety risks and further damage to the aircraft. Therefore, the best approach is to follow option C and thoroughly inspect the shock strut to identify and rectify any issues.

7. Which seals are used with vegetable base hydraulic fluids?

- A. Buna-N
- B. Silicone
- C. Natural rubber**
- D. Polyurethane

Natural rubber is the correct answer because it is the only option that is compatible with vegetable base hydraulic fluids. Buna-N and polyurethane are both synthetic materials and may not be suitable for use with vegetable base fluids. Silicone, while compatible with some types of hydraulic fluids, is not recommended for use with vegetable base fluids due to potential swelling and degradation.

8. Cases for electrically operated instruments are made of

- A. Plastic
- B. Aluminum
- C. Iron or steel**
- D. Carbon fiber

Cases for electrically operated instruments are typically made of iron or steel due to their abilities to shield electronic components from electromagnetic interference and provide physical protection. Plastic and carbon fiber are not usually used for these cases because they may not provide adequate protection against electromagnetic interference and are not as durable as iron or steel. Aluminum is a lightweight material commonly used in aircraft construction but is not the most common choice for electrically operated instrument cases due to its lower magnetic shielding properties compared to iron or steel.

9. What is a certificated mechanic allowed to perform?

- A. Major structural repairs
- B. 100-hour inspections of instruments**
- C. Designing aircraft modifications
- D. Pilot training

A certificated mechanic is allowed to perform 100-hour inspections of instruments. This is in accordance with the Federal Aviation Regulations Part 43 which outlines the specific duties and limitations of certificated mechanics. Option A is incorrect because major structural repairs require additional certification and approval beyond the standard A&P (Airframe and Powerplant) mechanic license. Option C is incorrect because designing aircraft modifications falls under the realm of engineering and requires specialized knowledge and licensing. Option D is incorrect because pilot training is outside the scope of work for an A&P mechanic and requires separate qualifications and certifications.

10. Which seals are used with petroleum base hydraulic fluids?

- A. Natural rubber
- B. Buna-N**
- C. Silicone
- D. Polyurethane

Buna-N seals are the correct choice for use with petroleum base hydraulic fluids because they are specifically designed to handle these types of fluids efficiently. Natural rubber, silicone, and polyurethane seals are not typically compatible with petroleum base hydraulic fluids and may degrade or fail prematurely if used with them.

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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://amtairframe.examzify.com>

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

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