

AVIATION MACHINIST MATE (AD) "A" SCHOOL WEEK 2 PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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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 materials are used in the construction of the Thermocouple Assembly?**
 - A. Alumel and Brass
 - B. Copper and Steel
 - C. Chromel and Alumel
 - D. Nickel and Iron
- 2. Which system would indicate an increase in engine RPM?**
 - A. Oil Pressure Indicating System
 - B. Fuel Flow Indicating System
 - C. Engine Speed Indicating System
 - D. Engine Temperature Indicating System
- 3. What is indicated by the "OL" feature on a multimeter?**
 - A. Low Voltage
 - B. Overload Condition
 - C. High Resistance
 - D. Battery Low
- 4. What is a characteristic of a gear-type pump?**
 - A. It may have a pressure relief mechanism
 - B. It only pumps hydraulic fluid
 - C. It cannot handle high flow rates
 - D. It is not suitable for lubrication purposes
- 5. What type of filter can be cleaned and reused?**
 - A. Cartridge Filter
 - B. Bag Filter
 - C. Sand Filter
 - D. Coalescer Filter
- 6. Which APU component, when illuminated, indicates a fire issue?**
 - A. Power control light
 - B. Fuel level indicator
 - C. APU fire warning light
 - D. Engine temperature gauge

- 7. What is the main advantage of using roller bearings over ball bearings?**
- A. Lower cost
 - B. Ability to absorb higher radial loads
 - C. Less friction
 - D. Easier maintenance
- 8. What must remain constant under varying conditions in a high energy capacitor discharge system?**
- A. Current output
 - B. Voltage output
 - C. Spark
 - D. Frequency
- 9. In the context of an oil tank, what is the purpose of air inlets?**
- A. To allow air to escape
 - B. To equalize pressure
 - C. To facilitate the separation of oil
 - D. To provide oil flow
- 10. Which component is included in the maintenance of an APU at the O Level?**
- A. Engine overhaul
 - B. Periodic inspection
 - C. Flight testing
 - D. Composite repairs

Answers

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

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Explanations

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1. What materials are used in the construction of the Thermocouple Assembly?

- A. Alumel and Brass
- B. Copper and Steel
- C. Chromel and Alumel**
- D. Nickel and Iron

The thermocouple assembly is designed to measure temperature by converting thermal potential into an electrical signal. The materials used in the construction of thermocouples need to be capable of producing a measurable voltage when subjected to temperature variations. Chromel and Alumel are two specific alloys commonly used in thermocouples for this purpose. Chromel is primarily composed of nickel and chromium, which helps provide stability and good resistance to corrosion and oxidation at high temperatures. Alumel, on the other hand, is an alloy made up of nickel, manganese, aluminum, and silicon. This combination allows it to complement Chromel effectively, enhancing the thermoelectric response necessary for accurate temperature measurement. Using Chromel and Alumel makes these thermocouples suitable for a wide range of applications, particularly in industrial and aviation settings, due to their reliability and thermal response characteristics. Therefore, the correct choice reflects the proper materials that are specifically utilized for thermocouples in various temperature monitoring applications.

2. Which system would indicate an increase in engine RPM?

- A. Oil Pressure Indicating System
- B. Fuel Flow Indicating System
- C. Engine Speed Indicating System**
- D. Engine Temperature Indicating System

The Engine Speed Indicating System is specifically designed to monitor and display the RPM (revolutions per minute) of the engine. This system uses various sensors and instruments to measure the rotational speed of the engine's crankshaft or other rotating components, providing a real-time readout of engine performance. An increase in engine RPM signifies that the engine is operating at a higher speed, which is crucial for understanding engine performance, efficiency, and power output during various phases of flight and operation. The other systems mentioned serve different functions. The Oil Pressure Indicating System monitors the pressure of the oil circulating through the engine, which is important for lubrication but does not directly correlate to engine RPM. The Fuel Flow Indicating System tracks the rate at which fuel is consumed by the engine, which can be affected by RPM but does not directly measure it. Lastly, the Engine Temperature Indicating System assesses the temperature of engine components, which is vital for preventing overheating but is unrelated to RPM measurements. Thus, the Engine Speed Indicating System is the correct choice for indicating changes in engine RPM.

3. What is indicated by the "OL" feature on a multimeter?

- A. Low Voltage
- B. Overload Condition**
- C. High Resistance
- D. Battery Low

The "OL" feature on a multimeter stands for "Overload," which indicates an overload condition. This typically occurs when the voltage or resistance being measured exceeds the multimeter's maximum limit. For voltage measurements, this could mean that the voltage is too high for the device to read, and for resistance measurements, it signifies that the resistance is higher than what the multimeter can measure. Consequently, the display shows "OL" to inform the user that the measurement cannot be taken due to these limits being surpassed. Understanding this feature is crucial for safely using a multimeter without damaging it or receiving inaccurate readings.

4. What is a characteristic of a gear-type pump?

- A. It may have a pressure relief mechanism**
- B. It only pumps hydraulic fluid
- C. It cannot handle high flow rates
- D. It is not suitable for lubrication purposes

A gear-type pump typically features a pressure relief mechanism as a crucial characteristic. This mechanism is essential for maintaining safe operating pressure within the hydraulic system. When the pressure exceeds a certain level, the relief mechanism opens to allow some fluid to bypass back to the reservoir or tank, thus preventing potential damage to the pump or the overall system. In hydraulic applications, this characteristic helps ensure that the pump operates within its specified limits, thereby enhancing reliability and performance. The presence of the pressure relief mechanism is particularly important in systems where variable loads can cause fluctuating pressures. While gear-type pumps can indeed be designed to handle various fluids—not limited to just hydraulic fluid—the ability to manage high flow rates and their application in lubrication scenarios can vary based on the specific design and intended use of the pump.

5. What type of filter can be cleaned and reused?

- A. Cartridge Filter**
- B. Bag Filter
- C. Sand Filter
- D. Coalescer Filter

A cartridge filter is designed to be cleaned and reused, which makes it both cost-effective and environmentally friendly. This type of filter typically consists of a cylindrical casing with a filter element inside that captures particulates and contaminants from the fluid passing through it. When particle buildup is significant, the filter can be removed, cleaned, and reinstated without needing to be replaced entirely. In contrast, while bag filters and sand filters may sometimes be cleaned, they are not generally considered reusable in the same straightforward way as cartridge filters; bag filters often require complete replacement when clogged, and sand filters involve backwashing rather than a simple cleaning operation. Coalescer filters, designed to separate liquids from liquids or to remove droplets from gases, typically have limited cleaning possibilities and are more often replaced than reused.

6. Which APU component, when illuminated, indicates a fire issue?

- A. Power control light
- B. Fuel level indicator
- C. APU fire warning light**
- D. Engine temperature gauge

The APU fire warning light is a critical indicator that signals a potential fire situation within the Auxiliary Power Unit (APU). When this light illuminates, it serves as a warning to the operators and maintenance personnel that there is a fire condition detected in the APU compartment. This alert is vital for ensuring immediate and appropriate action can be taken to mitigate any risks associated with a fire, such as reducing the chances of an onboard fire spreading or causing further damage to the aircraft. In aviation systems, monitoring and responding to fire hazards is a top priority, as they can lead to catastrophic outcomes if not addressed swiftly. The APU fire warning light is specifically designed to inform crew members of this serious situation, distinguishing it from other indicators that do not pertain to fire issues.

7. What is the main advantage of using roller bearings over ball bearings?

- A. Lower cost
- B. Ability to absorb higher radial loads**
- C. Less friction
- D. Easier maintenance

Roller bearings have a significant advantage over ball bearings in their ability to absorb higher radial loads. This capability stems from the increased contact area between the rollers and the raceways, which allows roller bearings to distribute the load more effectively. In applications where heavy loads are present, roller bearings provide better support and durability, leading to improved performance and longevity under stress. The design of roller bearings permits them to carry larger amounts of weight while maintaining stability during operation. This makes them ideal for use in industries and applications where high radial loads are common, such as in heavy machinery and automotive components. Understanding the advantages of roller bearings helps technicians select the appropriate bearing type for specific applications, ensuring optimal performance and reliability.

8. What must remain constant under varying conditions in a high energy capacitor discharge system?

- A. Current output
- B. Voltage output
- C. Spark**
- D. Frequency

In a high energy capacitor discharge system, the critical factor that must remain constant under varying conditions is the spark. The spark represents the discharge of energy from the capacitor through a conductive path, typically across an air gap or other medium. This event is crucial for the proper functioning of systems relying on capacitive discharges, such as in ignition systems or certain types of electric arc applications. A consistent spark ensures that the energy released is adequate for the intended purpose, such as igniting fuel in an engine or producing a reliable arc in welding applications. Although factors like current output, voltage output, and frequency may fluctuate based on changes in the load or system conditions, maintaining a stable operational spark is essential for the effectiveness of the capacitor discharge system. In essence, the reliability of the discharge process and the energy transfer it provides hinge on the consistency of the spark, making it the cornerstone of high energy capacitor discharge systems.

9. In the context of an oil tank, what is the purpose of air inlets?

- A. To allow air to escape
- B. To equalize pressure**
- C. To facilitate the separation of oil
- D. To provide oil flow

Air inlets serve the important function of equalizing pressure within the oil tank. When oil is drawn out of the tank or when the temperature changes, the volume of oil inside the tank can fluctuate, leading to pressure differences. If these pressure differences are not addressed, it could lead to issues such as vacuum formation or potential damage to the tank. Air inlets allow for the necessary exchange of air, compensating for the loss or gain of oil, and ensuring that the internal tank pressure remains balanced. This balance helps maintain the integrity of the system and prevents any airlock situations that could disrupt oil flow or lead to inefficiencies.

10. Which component is included in the maintenance of an APU at the O Level?

- A. Engine overhaul
- B. Periodic inspection**
- C. Flight testing
- D. Composite repairs

The maintenance of an Auxiliary Power Unit (APU) at the Organizational (O) Level primarily includes periodic inspections. This process is essential for ensuring the APU operates effectively and safely, as it allows for the assessment of the unit's performance, the identification of potential issues, and the implementation of necessary maintenance tasks. Periodic inspections are scheduled at regular intervals and focus on checking various components, such as the fuel system, lubrication, electrical connections, and overall functionality of the APU. Other maintenance activities, such as engine overhauls, typically occur at higher levels of maintenance (such as Intermediate or Depot Level) and involve more extensive work that goes beyond routine checks. Flight testing is usually associated with evaluating flight-critical systems and components after repairs or modifications, rather than routine APU maintenance. Composite repairs, which pertain to repairing structures or components made of composite materials, do not directly relate to the operational checks and services applicable to an APU at the O Level. Each of these other activities serves different functions and is not part of the regular maintenance protocol performed at the organizational level.

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://adaschoolweek2.examzify.com>

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

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