

Aviation Machinist Mate (AD) "A" School Week 2 Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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	16

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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 is the main purpose of the fuel pump in the APU fuel system?**
 - A. To increase engine temperature**
 - B. To supply fuel under all operating conditions**
 - C. To reduce fuel consumption**
 - D. To filter unwanted particles**

- 2. Which valve helps in managing fuel flow to enhance safety in case of fire?**
 - A. Selector Valve**
 - B. Manually Operated Shut-Off Valves**
 - C. Pressurization System**
 - D. Electrically Operated Shut-Off Valves**

- 3. Which of the following valves can control fuel flow during refueling and fuel transfer?**
 - A. Electrically Operated Shut-Off Valves**
 - B. Check Valves**
 - C. Fuel Level Control Valves**
 - D. Selector Valve**

- 4. Which type of pump is responsible for transferring fuel from various cells to the main tanks?**
 - A. Boost Pump**
 - B. Ejector Pump**
 - C. Transfer Pump**
 - D. Submersible Pump**

- 5. What is the flash point characteristic of JP-4 fuel?**
 - A. It has the highest volatility among the fuels**
 - B. It is the lowest flash point of the three listed fuels**
 - C. It is used mainly as a primary fuel**
 - D. It has a high flash point similar to JP-5**

- 6. What type of electricity is characterized by a steady flow in one direction only?**
- A. Alternating Current (AC)**
 - B. Direct Current (DC)**
 - C. Static Electricity**
 - D. Magnetic Current**
- 7. When servicing the Engine Lubrication System, one should refer to which source?**
- A. Flight manual**
 - B. Technical manual**
 - C. Manufacturer's website**
 - D. Aviation maintenance log**
- 8. What is the function of a check valve in an oil system?**
- A. To allow flow in both directions**
 - B. To maintain constant pressure**
 - C. To allow flow in one direction only**
 - D. To separate air from oil**
- 9. What is a primary purpose of the APU?**
- A. To improve fuel efficiency**
 - B. To supply pneumatic power for air conditioning**
 - C. To enhance aircraft aerodynamics**
 - D. To provide thrust during takeoff**
- 10. How do lubrpumping systems typically maintain a constant volume of oil flow?**
- A. By integrating a pressure sensor**
 - B. Through the use of pressure element pumps**
 - C. By using a single pump type**
 - D. By manually adjusting the pump rate**

Answers

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

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Explanations

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1. What is the main purpose of the fuel pump in the APU fuel system?

- A. To increase engine temperature**
- B. To supply fuel under all operating conditions**
- C. To reduce fuel consumption**
- D. To filter unwanted particles**

The primary function of the fuel pump in the Auxiliary Power Unit (APU) fuel system is to supply fuel under all operating conditions. The fuel pump ensures that an adequate quantity of fuel is delivered to the APU to support its operation, particularly during various phases such as startup, idle, and full-load conditions. In an APU, consistent fuel supply is crucial for reliability and efficiency, as it directly affects the APU's ability to generate power, help start jet engines, and provide electrical and pneumatic power when the main engines are not running. The fuel pump must be capable of overcoming various challenges, such as changes in fuel tank levels or variations in altitude and temperature, which can impact fuel flow and pressure. While factors such as reducing fuel consumption or filtering particles are important within the broader scope of fuel system functionality, they are not the core purpose of the fuel pump itself. The emphasis on supplying fuel reliably under changing conditions accurately reflects the essential role of the pump in maintaining optimal APU performance.

2. Which valve helps in managing fuel flow to enhance safety in case of fire?

- A. Selector Valve**
- B. Manually Operated Shut-Off Valves**
- C. Pressurization System**
- D. Electrically Operated Shut-Off Valves**

The manually operated shut-off valves play a critical role in managing fuel flow, especially in emergency situations such as a fire. These valves allow for immediate and direct control of the fuel supply, enabling operators to quickly shut off the fuel flow when a fire is detected. This rapid response helps to minimize the risk of fuel combustion, reducing the potential for catastrophic events in the aircraft. In contrast, the other options do not provide the same level of immediate manual control. The selector valve directs fuel to various systems but does not have a direct shut-off capability in emergency scenarios. The pressurization system is primarily concerned with maintaining cabin pressure and is not directly related to fuel management. Electrically operated shut-off valves, while functional, rely on electrical systems that may not be operational during a fire or other emergencies, potentially delaying the response. Thus, manually operated shut-off valves are specifically designed for safety by allowing for quick intervention during critical situations.

3. Which of the following valves can control fuel flow during refueling and fuel transfer?

- A. Electrically Operated Shut-Off Valves**
- B. Check Valves**
- C. Fuel Level Control Valves**
- D. Selector Valve**

Electrically Operated Shut-Off Valves are designed specifically to control the flow of fuel during refueling and transfer operations. These valves can be opened or closed remotely using electrical signals, providing the necessary control over the fuel flow to ensure safety and efficiency during transfer processes. Their ability to quickly and reliably stop or allow fuel flow makes them essential in managing the fuel supply in various aviation applications. In contrast, Check Valves primarily allow fluid flow in one direction and are not actively used to start or stop flow during refueling operations. Fuel Level Control Valves are designed to maintain a specific fuel level in tanks rather than control flow during transfer. Selector Valves are used to choose between different fuel sources or paths but do not directly control flow in the same manner as shut-off valves. Therefore, Electrically Operated Shut-Off Valves are the most appropriate choice for controlling fuel flow during refueling and fuel transfer tasks.

4. Which type of pump is responsible for transferring fuel from various cells to the main tanks?

- A. Boost Pump**
- B. Ejector Pump**
- C. Transfer Pump**
- D. Submersible Pump**

The transfer pump is specifically designed to move fuel from the various fuel cells, such as those found in the wings or fuselage of an aircraft, to the main fuel tanks. This function is crucial to ensure a continuous supply of fuel for the engines during flight. The transfer pump typically operates to maintain the required fuel balance and ensure that the main tanks are adequately filled from the auxiliary tanks as needed. In contrast, boost pumps are utilized to increase the pressure of the fuel and ensure a steady flow to the engines, particularly during takeoff or when fuel levels are low. Ejector pumps employ a different principle by using the Venturi effect to draw fuel into the system but are not typically responsible for transferring fuel from cells to the main tanks. Submersible pumps are often used in applications where pumping needs to occur from below the surface of a liquid, but they don't specifically transfer fuel as their primary function. Thus, the transfer pump is the clear and correct choice for the task of moving fuel from various cells to the main tanks.

5. What is the flash point characteristic of JP-4 fuel?

- A. It has the highest volatility among the fuels**
- B. It is the lowest flash point of the three listed fuels**
- C. It is used mainly as a primary fuel**
- D. It has a high flash point similar to JP-5**

JP-4 fuel is known for having a low flash point, which is a key characteristic that distinguishes it from other aviation fuels. The flash point of a fuel indicates the lowest temperature at which the fuel can vaporize to form an ignitable mixture in air. JP-4, being a blend of kerosene and gasoline, is designed for high volatility, thus allowing it to ignite more easily than fuels with higher flash points like JP-5. This low flash point makes JP-4 particularly suitable for specific operational conditions in aviation, such as rapid engine starts and colder environments. While it provides excellent starting characteristics, it also necessitates careful handling and storage procedures to mitigate the risks associated with its volatility. The other available choices do not accurately reflect the properties of JP-4: it is not the highest volatility fuel compared to others, it is not primarily used as a primary fuel (where JP-5 or Jet A may be more common in certain contexts), and it does not possess a high flash point like JP-5, which is designed for different operational requirements.

6. What type of electricity is characterized by a steady flow in one direction only?

- A. Alternating Current (AC)**
- B. Direct Current (DC)**
- C. Static Electricity**
- D. Magnetic Current**

The type of electricity characterized by a steady flow in one direction only is Direct Current (DC). DC is commonly used in various applications, such as batteries, electronic devices, and some electrical systems, where a constant voltage is required. In a DC circuit, the flow of electric charge is uniform, meaning that electrons move steadily from the negative terminal to the positive terminal without changing direction. This property makes DC particularly valuable for powering devices that rely on a stable voltage source. In contrast, Alternating Current (AC) alternates the direction of its flow periodically, which is used in home and commercial electrical outlets. Static electricity involves a buildup of electric charge on the surface of objects, rather than a continuous flow of current, and does not represent a consistent electrical supply. Magnetic current, while related to electromagnetic principles, does not refer to a type of electrical flow. Understanding these principles is essential for handling electrical systems effectively in aviation maintenance and operations.

7. When servicing the Engine Lubrication System, one should refer to which source?

- A. Flight manual**
- B. Technical manual**
- C. Manufacturer's website**
- D. Aviation maintenance log**

The technical manual is the primary reference for servicing the Engine Lubrication System because it provides detailed instructions, specifications, and procedures that are specific to the aircraft and its components. This manual is designed to ensure that maintenance personnel have the most accurate and relevant information necessary to safely and effectively service the engine's lubrication system. It includes diagrams, troubleshooting tips, and the correct types of lubricants to use, among other information critical for proper maintenance. While the flight manual focuses on operational aspects and pilot usage, it does not contain the detailed maintenance information contained in the technical manual. The manufacturer's website may offer supplementary information but is not typically as comprehensive as the technical manual on specific servicing procedures. The aviation maintenance log is used to document maintenance activities rather than serve as a reference source for servicing instructions. Therefore, for technical and procedural guidelines, the technical manual is the authoritative source to consult.

8. What is the function of a check valve in an oil system?

- A. To allow flow in both directions**
- B. To maintain constant pressure**
- C. To allow flow in one direction only**
- D. To separate air from oil**

The function of a check valve in an oil system is to allow flow in one direction only. This is crucial for maintaining the integrity and efficiency of the lubrication system. By permitting fluid to flow in a single direction, the check valve prevents backflow, which can cause contamination, air entrapment, or damage to components. In an oil system, maintaining proper oil flow direction helps ensure that all components are adequately lubricated and reduces the risk of overheating or part failure. If oil were allowed to flow backward, it could lead to oil starvation in critical areas or the mixing of oil with contaminants, significantly affecting system performance and reliability. The design of check valves makes them essential for ensuring that lubrication reaches its intended targets effectively and safely.

9. What is a primary purpose of the APU?

- A. To improve fuel efficiency
- B. To supply pneumatic power for air conditioning**
- C. To enhance aircraft aerodynamics
- D. To provide thrust during takeoff

The primary purpose of the Auxiliary Power Unit (APU) is to supply pneumatic power for air conditioning, particularly when the aircraft is on the ground and the main engines are not running. The APU can provide the necessary air pressure and temperature control for the aircraft's environmental control system, allowing for cabin comfort without relying on the engines. In addition to pneumatic power for air conditioning, the APU also generates electrical power to support onboard systems and can serve as a backup power source. However, its operation primarily functions to facilitate air conditioning while providing flexibility and efficiency when ground support resources are limited. The options related to fuel efficiency, aircraft aerodynamics, and providing thrust during takeoff are not the main functions of the APU, as they pertain to different aspects of aircraft performance and operation unrelated to the APU's design and main operational role.

10. How do lubrpumping systems typically maintain a constant volume of oil flow?

- A. By integrating a pressure sensor
- B. Through the use of pressure element pumps**
- C. By using a single pump type
- D. By manually adjusting the pump rate

Lubrication pumping systems are designed to ensure that a consistent and appropriate volume of oil is delivered throughout an aircraft's machinery. The use of pressure element pumps is particularly effective in maintaining a constant volume of oil flow. These pumps are capable of generating a steady flow rate by using positive displacement, which means that the amount of fluid they pump is directly proportional to the pump's stroke and speed, irrespective of changes in system pressure or resistance. This mechanism allows these pumps to adapt to varying operational conditions while still delivering the necessary lubrication to critical components. As the system demands vary, pressure element pumps can maintain a consistent output, which is essential for reliable engine performance and reducing wear on moving parts. This consistency helps to ensure that all parts receive sufficient lubrication to operate smoothly and prevents potential damage from inadequate oil flow. In contrast, other methods, such as integrating pressure sensors or using manual adjustments, may introduce variability or complexity that can compromise the system's efficiency or reliability. Pressure sensors might monitor the system but do not directly maintain flow. Using a single pump type may not provide the flexibility needed for different lubrication demands, and manual adjustments can lead to inconsistency and potential human error.

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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