

C-5 AUXILIARY POWER UNIT (APU) 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	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 role does regular maintenance play in APU performance?**
 - A. It is optional and can be skipped
 - B. It is vital for ensuring efficiency and preventing failures
 - C. It mostly affects the APU's appearance
 - D. It only needs to be performed after major issues arise
- 2. What is the significance of an APU's control module?**
 - A. It enhances fuel efficiency
 - B. It manages operational sequences and safety protocols for the APU
 - C. It regulates cabin temperature
 - D. It provides emergency hydraulic support
- 3. Which tools are essential for APU maintenance troubleshooting?**
 - A. Basic hand tools only
 - B. Only safety equipment
 - C. Multimeters and pressure gauges
 - D. Software diagnostic tools
- 4. What happens when the AIR COND switch is in the BOTH position?**
 - A. Only one APU is active
 - B. Temperature regulation is disabled
 - C. The aircraft experiences a full load
 - D. Fuel efficiency is maximized
- 5. What is the significance of APU RPM readings in the cockpit?**
 - A. Indicates fuel consumption rate
 - B. Shows the operational speed of the APU
 - C. Assesses the cooling capability
 - D. Determines engine thrust levels
- 6. What component prevents APU fuel starvation?**
 - A. The APU is designed to operate without a fuel system
 - B. A dedicated fuel system with a pump and filter assembly
 - C. The main aircraft fuel tanks supply the APU
 - D. The APU uses gravity-fed fuel from the wings

- 7. What is the operational capacity of the C-5 APU in terms of power generation?**
- A. 60 KVA
 - B. 75 KVA
 - C. 90 KVA
 - D. 120 KVA
- 8. What is required when operating the APU/ATM system in hangars without an automatic fire suppression system?**
- A. One 150 lbs CO2 fire extinguisher
 - B. Two 150 lbs HALON fire extinguishers and a CFR vehicle on standby
 - C. Only a fire alarm system must be activated
 - D. No special requirements are needed
- 9. Which of the following is a safety precaution during APU maintenance?**
- A. Wearing flip-flops for comfort
 - B. Ensuring the APU is operational
 - C. Wearing appropriate personal protective equipment
 - D. Ignoring the manufacturer's guidelines
- 10. What is the main advantage of using an APU during flight preparation?**
- A. It allows for main engine testing on the runway
 - B. It allows for engine operation tests and other ground operations without the use of main engines
 - C. It enables quicker taxiing to the runway
 - D. It provides backup power in case of engine failure

Answers

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

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Explanations

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1. What role does regular maintenance play in APU performance?

- A. It is optional and can be skipped
- B. It is vital for ensuring efficiency and preventing failures**
- C. It mostly affects the APU's appearance
- D. It only needs to be performed after major issues arise

Regular maintenance is essential for the optimal performance of an Auxiliary Power Unit (APU). Over time, various components of the APU experience wear and tear due to constant operation. Maintenance activities, which may include inspections, part replacements, fluid checks, and system calibrations, ensure that the APU operates at peak efficiency. By adhering to a regular maintenance schedule, potential problems can be identified and rectified before they lead to significant failures. This proactive approach not only enhances the efficiency of the APU—leading to better fuel economy and reduced emissions—but also extends the lifespan of the unit by keeping it in good working condition. Skimping on maintenance can lead to more severe issues down the line, resulting in costly repairs or even complete APU failures, which can compromise the overall operation of the aircraft. This highlights why regular maintenance is not just beneficial but necessary for maintaining performance, reliability, and safety.

2. What is the significance of an APU's control module?

- A. It enhances fuel efficiency
- B. It manages operational sequences and safety protocols for the APU**
- C. It regulates cabin temperature
- D. It provides emergency hydraulic support

The control module of an Auxiliary Power Unit (APU) plays a crucial role in managing the operational sequences and ensuring safety protocols are followed during its operation. Functioning as the brain of the APU, the control module oversees various processes, including startup procedures, operational status monitoring, and shutdown sequences. It is responsible for controlling fuel flow, ignition timing, and other vital parameters that ensure the APU operates efficiently and safely. Moreover, the control module monitors system data to detect anomalies or malfunctions, which enhances safety by initiating appropriate responses, such as shutting down the APU if unsafe conditions are detected. This ensures that both the APU and the overall aircraft systems remain protected during operation. Thus, its significance cannot be overstated, as it directly affects both performance and safety aspects of the APU.

3. Which tools are essential for APU maintenance troubleshooting?

- A. Basic hand tools only
- B. Only safety equipment
- C. Multimeters and pressure gauges**
- D. Software diagnostic tools

The correct choice highlights that multimeters and pressure gauges are essential tools for APU maintenance troubleshooting because they provide critical measurements and diagnostics necessary for effective troubleshooting. Multimeters are used to measure electrical parameters such as voltage, current, and resistance, which are vital for diagnosing electrical issues within the APU. Similarly, pressure gauges help assess the fluid systems, including fuel and oil pressures, which are integral to the APU's performance and reliability. Understanding the operational parameters through these diagnostic tools allows technicians to pinpoint malfunctions, verify system integrity, and ensure that the APU is functioning within its specified limits. This targeted approach helps in addressing specific issues efficiently rather than relying solely on basic hand tools or general troubleshooting methods. Other choices either lack the specificity required for APU maintenance or focus on insufficient aspects. While basic hand tools are helpful for physical repairs, they alone do not provide the critical diagnostic feedback necessary for troubleshooting complex systems like the APU. Safety equipment is important for ensuring a safe working environment, but it does not contribute to the troubleshooting process itself. Software diagnostic tools can be useful, but the physical measurements provided by multimeters and pressure gauges are often the first steps in diagnosing APU issues, making them fundamental tools in this context.

4. What happens when the AIR COND switch is in the BOTH position?

- A. Only one APU is active
- B. Temperature regulation is disabled
- C. The aircraft experiences a full load**
- D. Fuel efficiency is maximized

When the AIR COND switch is in the BOTH position, the aircraft utilizes both Auxiliary Power Units (APUs) to provide air conditioning and electrical power. This configuration allows the system to handle a full load of the aircraft's environmental and electrical needs. By activating both APUs, the aircraft can efficiently distribute load and ensure that all systems requiring power operate effectively, especially during taxing, takeoff preparations, or when on the ground without the main engines running. This setting maximizes operational capabilities by drawing on the combined output of both APUs, which is essential for maintaining environmental control in the cabin and powering other critical systems.

5. What is the significance of APU RPM readings in the cockpit?

- A. Indicates fuel consumption rate
- B. Shows the operational speed of the APU**
- C. Assesses the cooling capability
- D. Determines engine thrust levels

The significance of APU RPM readings in the cockpit primarily lies in their ability to show the operational speed of the Auxiliary Power Unit. The RPM, or revolutions per minute, indicates how fast the APU is rotating and, therefore, how efficiently it is functioning. Monitoring the RPM is crucial for ensuring the APU operates within its designed speed range for optimal performance, which is essential for supplying aircraft systems with electrical power and bleed air during ground operations and before engine start. While fuel consumption rate, cooling capability, and engine thrust levels are important factors in overall aircraft operations, they are not directly indicated by APU RPM readings. The RPM primarily provides insight into the APU's mechanical health and operational status, which is a key aspect of ensuring everything is functioning correctly before and during flight operations.

6. What component prevents APU fuel starvation?

- A. The APU is designed to operate without a fuel system
- B. A dedicated fuel system with a pump and filter assembly**
- C. The main aircraft fuel tanks supply the APU
- D. The APU uses gravity-fed fuel from the wings

The component that prevents APU fuel starvation is a dedicated fuel system with a pump and filter assembly. This system is essential for ensuring that the APU receives a consistent and reliable supply of fuel throughout its operation. The dedicated fuel system is designed specifically for the APU's requirements, facilitating the delivery of fuel from the aircraft's main fuel system or tank. By utilizing a pump, this system can maintain adequate fuel pressure, which is crucial for the APU to start and operate efficiently. The filter assembly is equally important as it removes impurities from the fuel, preventing clogging and ensuring that the fuel system operates smoothly without interruptions that could lead to starvation. This specialized setup is vital, as it distinguishes the APU's fuel needs from those of other aircraft systems. While some other options imply alternative methods of fuel supply, they lack the reliability and specificity that a dedicated fuel system provides, which is designed to meet the unique demands of the APU.

7. What is the operational capacity of the C-5 APU in terms of power generation?

- A. 60 KVA
- B. 75 KVA
- C. 90 KVA**
- D. 120 KVA

The operational capacity of the C-5 APU in terms of power generation is 90 KVA. This figure represents the amount of electrical power that the APU can generate to support various systems on board the aircraft, especially when the main engines are not running. The APU plays a crucial role in providing electrical power for systems such as lighting, environmental control, and avionics, among others, enabling the aircraft to maintain functionality on the ground before takeoff and after landing. The 90 KVA capacity is specifically designed to meet the demands of the C-5 aircraft's systems, balancing efficiency and power output to ensure reliable operation. Understanding this capacity is essential for training and operational purposes, as it informs crew members about the limits and capabilities of the APU, ensuring that they can make informed decisions regarding power management during ground operations.

8. What is required when operating the APU/ATM system in hangars without an automatic fire suppression system?

- A. One 150 lbs CO2 fire extinguisher
- B. Two 150 lbs HALON fire extinguishers and a CFR vehicle on standby**
- C. Only a fire alarm system must be activated
- D. No special requirements are needed

In the context of operating the Auxiliary Power Unit (APU) and Auxiliary Turbine Module (ATM) system in hangars that lack an automatic fire suppression system, the requirement for two 150 lbs HALON fire extinguishers along with a Crash Rescue Firefighting (CFR) vehicle on standby is crucial for ensuring safety in the event of a fire. Halon extinguishers are specifically designed for use in aviation scenarios, including those in proximity to aircraft and fuel systems, as they are effective in suppressing flammable liquid fires and electrical fires—both of which could be a risk when operating APUs. The presence of two extinguishers ensures that there is sufficient backup in case one is used, as well as making it easier for firefighting personnel to access the equipment quickly from different locations within the hangar. Additionally, having a CFR vehicle on standby signifies a proactive measure to provide immediate response capabilities in an emergency situation. This aligns with aviation safety protocols, which emphasize preparedness and rapid response to potential fires that could present significant hazards. Collectively, these requirements reflect a comprehensive approach to fire safety in environments where traditional automatic systems are not available, thereby reducing risk and enhancing overall safety when operating sensitive equipment like the APU.

9. Which of the following is a safety precaution during APU maintenance?

- A. Wearing flip-flops for comfort
- B. Ensuring the APU is operational
- C. Wearing appropriate personal protective equipment**
- D. Ignoring the manufacturer's guidelines

Wearing appropriate personal protective equipment (PPE) is a fundamental safety precaution during APU maintenance. PPE is essential in protecting maintenance personnel from various hazards that may be present when working on or around the APU. This includes risks associated with moving parts, electrical systems, fuel vapors, and high temperatures. Proper PPE—such as gloves, safety goggles, hearing protection, and flame-resistant clothing—ensures that workers can perform their tasks safely while minimizing the risk of injury. In contrast to this, the other choices demonstrate practices that wouldn't enhance safety. For example, wearing flip-flops is impractical and unsafe in a maintenance environment where the risk of dropping heavy objects or exposure to hazardous materials is present. Ensuring that the APU is operational does not relate to maintenance safety; rather, maintenance should occur when the APU is deactivated and properly secured. Ignoring the manufacturer's guidelines can lead to unsafe conditions, as those guidelines include critical safety protocols and operational procedures necessary for maintenance tasks.

10. What is the main advantage of using an APU during flight preparation?

- A. It allows for main engine testing on the runway
- B. It allows for engine operation tests and other ground operations without the use of main engines**
- C. It enables quicker taxiing to the runway
- D. It provides backup power in case of engine failure

The main advantage of using an Auxiliary Power Unit (APU) during flight preparation is that it allows for engine operation tests and other ground operations without the need to run the main engines. The APU serves as a supplementary power source that can supply electricity, air conditioning, and pneumatic power for starting the main engines and operating onboard systems while the aircraft is on the ground. This capability is particularly beneficial because it reduces fuel consumption and wear on the main engines, which can be expensive to maintain and operate. By using the APU, ground crew can conduct essential pre-flight checks, ensure the aircraft systems are functioning properly, and maintain passenger comfort without engaging the main engines. This function enhances overall operational efficiency and supports safety during the critical preparations before takeoff. The other options do not adequately capture the primary purpose and benefits of the APU in the context of ground operations.

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://c5apu.examzify.com>

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

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