

FAA Ground School Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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 wind direction and speed reported by a pilot at 12000 ft MSL?**
 - A. 080 degrees at 21 knots**
 - B. 180 degrees at 10 knots**
 - C. 360 degrees at 15 knots**
 - D. 270 degrees at 5 knots**

- 2. When activated, what frequencies does an emergency locator transmitter (ELT) transmit on?**
 - A. 121.5 and 406 MHz**
 - B. 121.5 and 243.0 MHz**
 - C. 123.45 and 406 MHz**
 - D. 121.5 and 288.0 MHz**

- 3. What is the specific fuel requirement for flight under VFR at night in an airplane?**
 - A. Enough to fly to the first point of landing and then for 30 minutes**
 - B. Enough to fly to the first point of landing and then for 45 minutes**
 - C. Enough to fly for 1 hour after takeoff**
 - D. Enough to fly to the first point of landing and turn back**

- 4. What is the maximum time frame an approved chair-type parachute may be packed by a rigger prior to being carried in an aircraft for emergency use?**
 - A. 120 days**
 - B. 180 days**
 - C. 240 days**
 - D. 360 days**

- 5. What is one common factor that affects most preventable accidents?**
 - A. Mechanical failure**
 - B. Weather conditions**
 - C. Human error**
 - D. Pilot experience**

- 6. What does a pulsating red light from a pulsating approach slope indicator indicate?**
- A. Above glide slope**
 - B. Below glide slope**
 - C. On glide slope**
 - D. Safety alert**
- 7. What is the minimum flight visibility for VFR flight at night outside controlled airspace at altitudes above 1,200 ft AGL but below 10,000 ft MSL?**
- A. 1 mile**
 - B. 2 miles**
 - C. 3 miles**
 - D. 4 miles**
- 8. If an aircraft departs from a Central Standard Time zone at 0845 CST for a 2-hour flight to a Mountain Standard Time zone, what is the UTC landing time?**
- A. 1545Z**
 - B. 1645Z**
 - C. 1745Z**
 - D. 1845Z**
- 9. Who has the primary responsibility for maintaining an aircraft in worthy condition?**
- A. The pilot in command**
 - B. The aircraft manufacturer**
 - C. The owner or operator**
 - D. The ground crew**
- 10. Which of the following is most likely to cause hyperventilation?**
- A. Physical exertion**
 - B. Emotional tension, anxiety, or fear**
 - C. Excessive altitude**
 - D. Inadequate oxygen supply**

Answers

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

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Explanations

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1. What is the wind direction and speed reported by a pilot at 12000 ft MSL?

- A. 080 degrees at 21 knots**
- B. 180 degrees at 10 knots**
- C. 360 degrees at 15 knots**
- D. 270 degrees at 5 knots**

The wind direction and speed reported by a pilot at 12,000 feet MSL corresponds to a specific measurement that reflects the wind's direction in degrees from true north, as well as its speed in knots. In the context of aviation, wind is typically reported using meteorological formats where the direction is expressed in degrees, and a fully developed report includes both components. Choosing the measurement of 080 degrees at 21 knots indicates that the wind is coming from the east-southeast (80 degrees being slightly south of directly east) and has a speed of 21 knots, which suggests a moderate wind that could impact flight operations, especially during takeoff and landing phases. This level of detail in wind reporting is essential for pilots, as it helps them make necessary adjustments for navigation and flight control, in addition to informing them about the potential for turbulence or changing flight conditions at that altitude. The choice reflects an accurate representation of how wind data is recorded and the importance of direction and speed in aviation contexts.

2. When activated, what frequencies does an emergency locator transmitter (ELT) transmit on?

- A. 121.5 and 406 MHz**
- B. 121.5 and 243.0 MHz**
- C. 123.45 and 406 MHz**
- D. 121.5 and 288.0 MHz**

An emergency locator transmitter (ELT) is designed to transmit distress signals to aid in search and rescue operations. When activated, an ELT transmits on two primary frequencies: 121.5 MHz and 406 MHz. The frequency of 121.5 MHz has been traditionally used as a distress frequency and is monitored by many aircraft and maritime organizations. It is also a frequency that can be picked up by various receivers in the vicinity, making it an essential part of emergency communication protocols. The 406 MHz frequency, on the other hand, is more advanced and carries a digital signal that can include specific identification information. This signal is monitored by satellite systems, allowing for a more precise location determination and a faster response to distress situations. The combination of these two frequencies enhances the chances of successful detection and response by rescue authorities. In contrast, while other frequency pairs mentioned in the other choices may include some frequencies that are used in aviation or maritime communication, they do not represent the appropriate combination for ELTs specifically designed for emergency signaling.

3. What is the specific fuel requirement for flight under VFR at night in an airplane?

- A. Enough to fly to the first point of landing and then for 30 minutes**
- B. Enough to fly to the first point of landing and then for 45 minutes**
- C. Enough to fly for 1 hour after takeoff**
- D. Enough to fly to the first point of landing and turn back**

The specific fuel requirement for flight under Visual Flight Rules (VFR) at night mandates that the pilot must have sufficient fuel to fly to the first intended point of landing and then have an additional reserve of fuel that allows for 45 minutes of flight. This requirement is established to ensure that pilots have adequate fuel to respond to unforeseen circumstances that may arise during night operations, such as changes in flight conditions, the need to divert to an alternate airport, or challenges in navigating at night. Having a designated fuel reserve is particularly critical at night when visibility may be reduced, and the pilot has less visual reference, which can increase the risk of mishaps. The 45-minute reserve provides a safety buffer that supports better decision-making for landing conditions or unexpected situations that might surface. This precautionary measure aligns with aviation safety standards established by regulatory bodies to ensure safe operation of aircraft at night. The other options may not provide sufficient buffer in varying conditions that could be encountered during nighttime flight, particularly concerning safety and navigational challenges.

4. What is the maximum time frame an approved chair-type parachute may be packed by a rigger prior to being carried in an aircraft for emergency use?

- A. 120 days**
- B. 180 days**
- C. 240 days**
- D. 360 days**

An approved chair-type parachute must be packed by a certified rigger within a maximum time frame of 180 days before it is carried in an aircraft for emergency use. This regulation is in place to ensure that the parachute is in optimal condition and that all components function correctly when needed. If a parachute is packed beyond this time frame, it may lead to increased risk during an emergency situation due to potential degradation of the materials or lack of proper serviceability checks. The 180-day requirement balances the need for readiness with the realities of material science; parachute fabrics and components can wear over time, even in storage. Regular maintenance and repacking within this period help to mitigate risks and ensure safety for the occupants of the aircraft.

5. What is one common factor that affects most preventable accidents?

- A. Mechanical failure**
- B. Weather conditions**
- C. Human error**
- D. Pilot experience**

Human error is identified as a common factor that affects most preventable accidents, particularly in aviation. This is largely due to the critical role that decision-making and situational awareness play in safely operating an aircraft. Even with advanced technology and well-maintained equipment, human factors such as fatigue, miscommunication, or lack of proper training can lead to mistakes that compromise safety. In aviation statistics, a significant number of accidents can be traced back to human factors—such as errors in judgment, failure to follow procedures, or incorrect assessments of a situation. This figure highlights the importance of effective training, clear communication, and the adherence to standard operating procedures to mitigate risks associated with human error. While mechanical failure, weather conditions, and pilot experience are also important aspects of flight safety, they are often out of the pilot's control or can be managed with proper training and protocols. Thus, focusing on reducing human error through education and training has a profound impact on preventing accidents, making it the most common factor in many preventable incidents.

6. What does a pulsating red light from a pulsating approach slope indicator indicate?

- A. Above glide slope**
- B. Below glide slope**
- C. On glide slope**
- D. Safety alert**

A pulsating red light from a pulsating approach slope indicator indicates that the aircraft is below the glide slope. This visual cue is designed to alert pilots that they need to climb to reach the proper descent path for landing. When the indicator shows a steady red light instead, it signifies being significantly below the glide slope, which is crucial for maintaining a safe approach and ensuring that the aircraft can land successfully without risking an approach that is too steep or too low. In the context of the glide slope, the indicator provides critical information about the aircraft's position relative to the ideal approach angle. A steady or pulsating white light would indicate being on or above the glide slope, reinforcing the necessity of climbing to meet the appropriate glide path. Understanding these signals is essential for pilots to manage their approach effectively and safely during landing.

7. What is the minimum flight visibility for VFR flight at night outside controlled airspace at altitudes above 1,200 ft AGL but below 10,000 ft MSL?

- A. 1 mile
- B. 2 miles
- C. 3 miles**
- D. 4 miles

The correct answer is based on the Visual Flight Rules (VFR) regulations, which establish specific visibility requirements for different flight conditions. For VFR night flight outside controlled airspace and at altitudes above 1,200 feet AGL but below 10,000 feet MSL, the minimum required visibility is 3 statute miles. This requirement ensures that pilots have sufficient visual reference to navigate and avoid obstacles, which is particularly important during night operations when visibility can be decreased due to lack of natural light. The 3-mile visibility requirement is designed to maintain a safe margin for pilots who may encounter different visibility conditions and to ensure they can see and avoid other aircraft. Understanding this regulation is crucial for pilots planning night flights, as it directly impacts their ability to operate safely and maintain situational awareness.

8. If an aircraft departs from a Central Standard Time zone at 0845 CST for a 2-hour flight to a Mountain Standard Time zone, what is the UTC landing time?

- A. 1545Z
- B. 1645Z**
- C. 1745Z
- D. 1845Z

To determine the UTC landing time, it's essential to first convert the departure time from Central Standard Time (CST) to Coordinated Universal Time (UTC). Central Standard Time is typically UTC-6 hours. Therefore, if the aircraft departs at 0845 CST, you would add 6 hours to convert this to UTC. Calculating this gives us: - 0845 CST + 6 hours = 1445 UTC. Next, the flight duration is 2 hours. To find the landing time in UTC, you add this flight duration to the converted departure time: - 1445 UTC + 2 hours = 1645 UTC. Thus, the UTC landing time is 1645Z. This aligns with the correct choice, reflecting accurate time zone conversions and understanding of the flight's duration.

9. Who has the primary responsibility for maintaining an aircraft in worthy condition?

- A. The pilot in command**
- B. The aircraft manufacturer**
- C. The owner or operator**
- D. The ground crew**

The primary responsibility for maintaining an aircraft in worthy condition falls to the owner or operator. This responsibility includes ensuring that the aircraft is compliant with all maintenance requirements, adhering to scheduled inspections, and consistently monitoring the aircraft's condition to maintain airworthiness. The owner/operator must ensure that all necessary maintenance is performed by qualified personnel and that accurate records are kept to document the aircraft's maintenance history. While the pilot in command does play a critical role in conducting pre-flight inspections and confirming the operational status of the aircraft, their responsibility is primarily related to the specific flight and not the overall upkeep of the aircraft. The aircraft manufacturer is responsible for providing the aircraft in a condition that is airworthy and supplying the necessary documentation and guidelines for maintenance, but they are not directly responsible for ongoing maintenance. The ground crew supports various maintenance activities and assists with the day-to-day operations of the aircraft, but they operate under the direction of the owner/operator and do not hold primary responsibility for the aircraft's overall maintenance.

10. Which of the following is most likely to cause hyperventilation?

- A. Physical exertion**
- B. Emotional tension, anxiety, or fear**
- C. Excessive altitude**
- D. Inadequate oxygen supply**

Hyperventilation is a condition characterized by rapid or deep breathing that results in an increased loss of carbon dioxide from the blood. Among the various factors that can lead to hyperventilation, emotional tension, anxiety, or fear is a significant contributor. When an individual experiences high levels of stress or anxiety, the body's fight-or-flight response is activated. This physiological response often entails increased respiratory rates as the body prepares to handle a perceived threat. The rapid breathing can inadvertently lead to a decrease in carbon dioxide levels, which may result in symptoms such as lightheadedness, tingling in the extremities, and sometimes even fainting. While physical exertion can also lead to changes in breathing patterns, it usually correlates with an increased oxygen demand rather than anxiety-driven hyperventilation. Excessive altitude can cause other issues like hypoxia due to lower oxygen availability but doesn't directly induce hyperventilation as a primary factor. Similarly, inadequate oxygen supply typically leads to slower, more labored breathing as the body attempts to obtain more oxygen rather than hyperventilation, which is associated more with overbreathing in response to emotional states. Therefore, emotional tension, anxiety, or fear is most likely to cause hyperventilation due to the body's immediate response

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://faa-groundschoo.examzify.com>

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

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