

FAA Instrument Rating Written Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

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- 1. If you experience tunnel vision and cyanosis during flight, what is likely your condition?**
 - A. Hypoxia**
 - B. Hyperventilation**
 - C. Carbon monoxide poisoning**
 - D. Altitude sickness**
- 2. Decode the excerpt from the Winds and Temperature Aloft Forecast (FB) for OKC at 39,000 feet.**
 - A. Wind 130° at 50 knots, temperature - 58° C**
 - B. Wind 330° at 105 knots, temperature -58° C**
 - C. Wind 330° at 205 knots, temperature -58° C**
 - D. Wind 230° at 95 knots, temperature -60° C**
- 3. If your transponder is inoperative, what are the requirements for flying in Class D airspace?**
 - A. The entry into Class D is prohibited.**
 - B. Continue the flight as planned, because a transponder is not required in Class D airspace.**
 - C. Pilot must immediately request priority handling to proceed to destination.**
 - D. Flight must be completed below 1,200 feet AGL.**
- 4. What is the maximum distance between NAVAIDS when planning an IFR flight off established airways below 18,000 feet MSL using VOR navigation?**
 - A. 40 NM**
 - B. 70 NM**
 - C. 80 NM**
 - D. 60 NM**
- 5. While operating in class D airspace, what should the pilot maintain until a lower altitude is necessary for landing?**
 - A. Maintain a 3° glide until approximately 1/2 mile to the runway.**
 - B. Maintain an altitude at or above the glide slope.**
 - C. Stay high until the runway can be reached in a power-off landing.**
 - D. Descend immediately upon entering the airspace.**

6. What can excessive reliance on modern avionics lead to in terms of pilot behavior?

- A. Improved situational awareness.**
- B. Increased cabin comfort.**
- C. Complacency.**
- D. Enhanced manual flying skills.**

7. What action should a pilot take if they lose all communications while on an IFR flight?

- A. Continue flying the route as planned**
- B. Fly to the nearest airport**
- C. Attempt to communicate on standby frequency**
- D. Execute a 180° turn**

8. What would be one of the primary concerns of autopilot use in icing conditions?

- A. Over-reliance on the system due to automation**
- B. Increased workload for the pilot**
- C. Potential for mechanical failure**

9. What does the AIRMET indicating CIG BELOW 010 imply for a flight route?

- A. There will be icing in clouds below 10,000 feet MSL**
- B. Visibility will be less than 3 statute miles until 15Z**
- C. The area will have low ceilings before 15Z**

10. What is the approximate rate of descent to maintain the electronic glide slope at 120 KIAS with a 15-knot headwind?

- A. 635 ft/min.**
- B. 650 ft/min.**
- C. 555 ft/min.**
- D. 700 ft/min.**

Answers

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

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Explanations

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1. If you experience tunnel vision and cyanosis during flight, what is likely your condition?

- A. Hypoxia**
- B. Hyperventilation**
- C. Carbon monoxide poisoning**
- D. Altitude sickness**

Experiencing tunnel vision and cyanosis during flight is indicative of hypoxia, which is a condition resulting from inadequate oxygen supply to the body. Tunnel vision occurs when there is a reduction in peripheral vision, and this effect is often associated with a lack of oxygen to the brain. Cyanosis, which is a bluish coloration of the skin, particularly around the lips and fingertips, typically arises due to insufficient oxygen in the bloodstream. Both symptoms are signs that the body is not receiving enough oxygen, which can happen at higher altitudes where the air pressure is lower. While hyperventilation and carbon monoxide poisoning can cause symptoms related to oxygen deficiency, they typically manifest differently. Hyperventilation generally leads to dizziness and lightheadedness, while carbon monoxide poisoning might cause headaches and confusion without necessarily exhibiting cyanosis or tunnel vision. Altitude sickness encompasses a range of symptoms due to the body's inability to acclimatize to high elevation, but it may not specifically present with the classic signs of hypoxia like tunnel vision and cyanosis. Hence, hypoxia is the most appropriate diagnosis for these symptoms.

2. Decode the excerpt from the Winds and Temperature Aloft Forecast (FB) for OKC at 39,000 feet.

- A. Wind 130° at 50 knots, temperature - 58° C**
- B. Wind 330° at 105 knots, temperature -58° C**
- C. Wind 330° at 205 knots, temperature -58° C**
- D. Wind 230° at 95 knots, temperature -60° C**

To decode the Winds and Temperature Aloft Forecast (FB) for Oklahoma City (OKC) at 39,000 feet accurately, it's essential to understand how the format presents wind direction, wind speed, and temperature. In this context, the wind direction is represented by three digits (i.e., true north is 000, east is 090, south is 180, and west is 270) with wind speeds typically given in knots. Additionally, temperatures are often expressed in degrees Celsius with the values preceding a negative sign indicating that they are below zero. For the correct answer, the identified wind direction of 330°, linked with a wind speed of 105 knots, and a temperature of -58°C matches typical meteorological reporting standards for that elevation. Providing further context, a wind from 330° means the wind is blowing from the northwest towards the southeast at a speed of 105 knots, which is quite significant at altitude. The temperature of -58°C is consistent with high-altitude conditions, where temperatures can drop significantly. Understanding these elements helps in interpreting aviation weather forecasts accurately, ensuring that pilots can make informed decisions regarding flight planning and safety based on wind conditions and temperature at altitude.

- 3. If your transponder is inoperative, what are the requirements for flying in Class D airspace?**
- A. The entry into Class D is prohibited.**
 - B. Continue the flight as planned, because a transponder is not required in Class D airspace.**
 - C. Pilot must immediately request priority handling to proceed to destination.**
 - D. Flight must be completed below 1,200 feet AGL.**

In Class D airspace, a transponder is not a requirement for operating an aircraft. The primary purpose of a transponder in certain airspaces, especially Class C and above, is to provide information to air traffic control (ATC) and enhance situational awareness for other aircraft. However, for Class D airspace, the regulations do not mandate the use of a transponder for flight operations. This allows pilots to enter and operate in Class D airspace without needing to have an operational transponder. It is essential for pilots to remain aware of other requirements for operating in Class D airspace, such as maintaining communication with the tower and adhering to any specific instructions from ATC. Nonetheless, the absence of a functioning transponder does not automatically prohibit entry into this airspace.

- 4. What is the maximum distance between NAVAIDS when planning an IFR flight off established airways below 18,000 feet MSL using VOR navigation?**
- A. 40 NM**
 - B. 70 NM**
 - C. 80 NM**
 - D. 60 NM**

The correct answer is based on the guidance provided in the Aeronautical Information Manual (AIM) regarding the use of VOR navigation for IFR flights. When planning an IFR flight off established airways below 18,000 feet MSL using VOR navigation, it is required to ensure that the distance between VOR navigational aids does not exceed a specific limit to maintain adequate navigation capability. The maximum distance between VORs is established as 80 nautical miles (NM). This ensures that during flight, a pilot can reliably receive VOR signals and make accurate navigational decisions. Keeping this maximum distance in mind is crucial for maintaining situational awareness and safety particularly in lower altitude flight operations. In summary, the maximum distance of 80 NM ensures sufficient coverage, enabling pilots to navigate effectively when operating off established airways below 18,000 feet MSL with VOR navigation.

5. While operating in class D airspace, what should the pilot maintain until a lower altitude is necessary for landing?

- A. Maintain a 3° glide until approximately 1/2 mile to the runway.**
- B. Maintain an altitude at or above the glide slope.**
- C. Stay high until the runway can be reached in a power-off landing.**
- D. Descend immediately upon entering the airspace.**

In Class D airspace, pilots are required to maintain contact with air traffic control and follow their instructions, particularly regarding altitude and approach procedures. Maintaining an altitude at or above the glide slope is essential as it allows for proper configuration and approach to the runway while ensuring safety. Following the glide slope means the aircraft is properly aligned with the approach path, which is crucial in controlled airspace where traffic can be more dense. By adhering to the glide slope, a pilot can effectively manage descent rates, making it easier to adjust as necessary based on traffic, weather conditions, and the specific approach being executed. This strategic approach enhances the safety of both the pilot and other aircraft in the vicinity. Continuously monitoring and staying above the glide slope until certain that a lower altitude is necessary for landing provides the pilot with necessary room for adjustments and helps ensure a safe transition to the landing phase.

6. What can excessive reliance on modern avionics lead to in terms of pilot behavior?

- A. Improved situational awareness.**
- B. Increased cabin comfort.**
- C. Complacency.**
- D. Enhanced manual flying skills.**

Excessive reliance on modern avionics can lead to complacency among pilots. When pilots become too dependent on advanced technology for navigation, communication, and flight management, they may stop actively engaging with their surroundings and the flying environment. This complacency can reduce their situational awareness and impair their ability to respond effectively to unexpected situations. In this context, pilots may not practice critical manual flying skills as frequently, leading to a decline in their competence to operate the aircraft without the aid of avionics. This overreliance on technology can create a false sense of security, as the pilot may believe that the aircraft will simply handle itself, thereby neglecting the fundamental principles of flying. Thus, while avionics are incredibly useful, maintaining awareness and skills through active engagement is essential for safe operations. Recognizing the risk of complacency reinforces the importance of continuous training, situational awareness, and the ability to revert to basic flying when necessary.

7. What action should a pilot take if they lose all communications while on an IFR flight?

- A. Continue flying the route as planned**
- B. Fly to the nearest airport**
- C. Attempt to communicate on standby frequency**
- D. Execute a 180° turn**

When a pilot loses all communications while flying under Instrument Flight Rules (IFR), attempting to communicate on the standby frequency is a critical step. This action serves two purposes: it allows the pilot to reestablish contact with air traffic control (ATC) and ensures that they remain in compliance with IFR procedures. Using the standby frequency is particularly effective as ATC may monitor these frequencies for lost communications situations. Since loss of communication can occur for various reasons—such as equipment failure, radio interference, or atmospheric conditions—trying different frequencies can improve the chances of regaining communication with ATC. Continued flying on the original route, flying to the nearest airport, or executing a 180° turn might not be the best options without reestablishing contact. The proper procedure, as per Aeronautical Information Manual (AIM) guidelines, emphasizes the importance of attempting to communicate first rather than altering the flight path without ATC clearance, which could lead to safety and coordination issues. By attempting to establish communication first, pilots are adhering to safe flight practices while potentially clarifying their next steps with ATC.

8. What would be one of the primary concerns of autopilot use in icing conditions?

- A. Over-reliance on the system due to automation**
- B. Increased workload for the pilot**
- C. Potential for mechanical failure**

The primary concern of using an autopilot in icing conditions is over-reliance on the system due to automation. In such conditions, pilots might feel a false sense of security, assuming that the autopilot can handle the challenges posed by ice accumulation on the aircraft. However, icing can severely affect an aircraft's performance, including control surface effectiveness, and can lead to unexpected handling characteristics. When pilots place too much trust in the autopilot, they may become less vigilant in monitoring the aircraft's performance and the changing environmental conditions, which can lead to reduced situational awareness and an inability to take corrective action when necessary. While mechanical failure of the autopilot system could be a concern in icing conditions, it's not specifically tied to the increased risks associated with reduced pilot oversight during critical phases of flight, such as when ice is accumulating. Similarly, although icing conditions could potentially lead to a higher workload for pilots, the core issue remains that pilots must maintain a high level of engagement and decision-making to ensure safety.

9. What does the AIRMET indicating CIG BELOW 010 imply for a flight route?

- A. There will be icing in clouds below 10,000 feet MSL**
- B. Visibility will be less than 3 statute miles until 15Z**
- C. The area will have low ceilings before 15Z**

The AIRMET indicating CIG BELOW 010 specifically relates to cloud ceilings. This alert indicates that the ceiling is expected to be below 1,000 feet above mean sea level (MSL), which can significantly impact flight operations, particularly for VFR (Visual Flight Rules) flights. AIRMETs are designed to inform pilots of weather conditions that may affect safety, especially in the context of flying under instrument flight rules (IFR). In this case, a ceiling below 1,000 feet can lead to challenging conditions, as pilots may encounter low visibility and difficulty maintaining control of their aircraft based on visual references. The mention of "before 15Z" suggests that this condition is expected to persist until that time, further highlighting the potential for low ceilings in that area during that period. Understanding the implications of a low ceiling is crucial for flight planning and decision-making in aviation. The other options refer to aspects such as icing or visibility, which are not directly indicated by the specific AIRMET about cloud ceilings.

10. What is the approximate rate of descent to maintain the electronic glide slope at 120 KIAS with a 15-knot headwind?

- A. 635 ft/min.**
- B. 650 ft/min.**
- C. 555 ft/min.**
- D. 700 ft/min.**

To maintain the electronic glide slope while flying at 120 knots indicated airspeed (KIAS) with a headwind, it is important to consider how the headwind affects the aircraft's descent rate. The standard rate of descent for a glide slope is typically around 700 feet per minute, assuming a configuration that supports an airspeed of approximately 120 knots in calm conditions. However, flying into a headwind of 15 knots reduces the relative ground speed, meaning the aircraft effectively travels slower across the ground compared to its indicated airspeed. This requires an adjustment in the rate of descent. To maintain the glide slope, a lower descent rate is often needed, as the increased headwind reduces the ground speed that affects glide slope interception. After accounting for the headwind, the correct calculation shows that the adjusted rate of descent to maintain the glide slope at a 120 KIAS with a 15-knot headwind is approximately 555 feet per minute. This lower rate of descent allows the aircraft to follow the glide path accurately, leading to a stable approach and landing. In this case, the selected answer reflects a calculated adjustment for maintaining the correct glide path based on the conditions presented.

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-instrumentrating.examzify.com>

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

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