

# USI Drones Course 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. Increasing airfoil speed results in what for lift?**
  - A. Lift increases**
  - B. Lift decreases**
  - C. Lift remains unchanged**
  - D. Lift is unpredictable**
  
- 2. Which statement best defines professionalism as used to distinguish professional occupations from others?**
  - A. A set of standards that determine salary levels.**
  - B. A set of characteristics that differentiate professional occupations from other occupations.**
  - C. Only about formal education.**
  - D. Only about years of experience.**
  
- 3. In a coastal region, mid-afternoon winds can reach as great as 5-10 knots and will cease around sunset. Which statement is correct?**
  - A. 10-15 knots, ceasing at dawn**
  - B. 5-10 knots, ceasing at sunset**
  - C. 15-20 knots, ceasing at noon**
  - D. 20-25 knots, ceasing at midnight**
  
- 4. Which term describes the process of moving radio waves through space?**
  - A. Datalink**
  - B. Transceiver**
  - C. Wave Propagation**
  - D. Antenna Gain**
  
- 5. What antidote can be applied to the hazardous attitude of machismo?**
  - A. Always escalate risk**
  - B. Taking chances is foolish**
  - C. Worry about appearance**
  - D. Ignore warnings**

- 6. Which statement best describes whether there are two acceptable reasons to lose visual line of sight (VLOS) momentarily?**
- A. True**
  - B. In some unusual cases**
  - C. Only with authorization**
  - D. False**
- 7. During pre-flight preparations, you must anticipate the event of a lost link due to radio frequency communications failure. To be ready, you can program the communication to automatically switch to \_\_\_\_\_.**
- A. Satellite Communications**
  - B. Cellular Network**
  - C. Ground Control**
  - D. Backup Radio**
- 8. How far away can lightning strike from a thunderstorm?**
- A. 15 miles**
  - B. 5 miles**
  - C. 50 miles**
  - D. 1 mile**
- 9. What term should be taken into account when choosing datalink hardware?**
- A. Aircraft Size**
  - B. FCC**
  - C. Noise**
  - D. Carrier Wave**
- 10. Induced drag is primarily associated with which aerodynamic phenomenon?**
- A. Induced Drag**
  - B. Parasitic Drag**
  - C. Skin Drag**
  - D. Form Drag**

## Answers

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

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## **Explanations**

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### 1. Increasing airfoil speed results in what for lift?

- A. Lift increases**
- B. Lift decreases**
- C. Lift remains unchanged**
- D. Lift is unpredictable**

Increasing airfoil speed raises the dynamic pressure acting on the wing, which increases lift. Lift can be expressed as  $L = q S C_l$ , where  $q = \frac{1}{2} \rho V^2$  is the dynamic pressure. As velocity increases,  $q$  grows with the square of  $V$ , so lift increases (assuming the angle of attack and air density stay about the same, so  $C_l$  doesn't change dramatically). In practical terms, doubling speed roughly quadruples lift if  $C_l$  remains constant. Lift doesn't decrease or stay unpredictable simply due to speed, though  $C_l$  can change with angle of attack—the main takeaway is that higher speed boosts lift because of higher dynamic pressure.

### 2. Which statement best defines professionalism as used to distinguish professional occupations from others?

- A. A set of standards that determine salary levels.**
- B. A set of characteristics that differentiate professional occupations from other occupations.**
- C. Only about formal education.**
- D. Only about years of experience.**

Professionalism is defined by a set of characteristics that differentiate professional occupations from other occupations. It goes beyond just how much you earn or how long you've studied. A professional field rests on a specialized body of knowledge and skills gained through formal education and training, credentials or licensure, and the expectation of ongoing learning. It also includes ethical standards, accountability to the public, and a degree of autonomy in decision-making. These elements together create trust and responsibility in practice, which is what truly separates professional roles from non-professional ones.

### 3. In a coastal region, mid-afternoon winds can reach as great as 5-10 knots and will cease around sunset. Which statement is correct?

- A. 10-15 knots, ceasing at dawn**
- B. 5-10 knots, ceasing at sunset**
- C. 15-20 knots, ceasing at noon**
- D. 20-25 knots, ceasing at midnight**

Winds along the coast during the day are driven by a sea breeze: the land heats up faster than the sea, creating air rising over land and drawing cooler air from the sea toward land. This onshore flow strengthens in the afternoon as the temperature difference peaks, often reaching modest speeds like 5-10 knots. After sunset, surface heating drops and the pressure gradient relaxes, so the breeze usually dies down around that time. The statement that matches is that wind speeds are 5-10 knots and cease at sunset. The other options would imply wind conditions or timing that don't align with the typical daytime sea-breeze pattern, so they're less consistent with how coastal winds behave between afternoon and sunset.

**4. Which term describes the process of moving radio waves through space?**

- A. Datalink
- B. Transceiver
- C. Wave Propagation**
- D. Antenna Gain

Wave propagation describes how radio waves travel through space. It covers how the signal moves from the transmitter to the receiver and how factors like distance, obstacles, reflections, diffraction, and atmospheric conditions affect it—key ideas for understanding drone communication ranges and reliability. The other terms refer to different concepts: a datalink is about the data transfer method between devices, a transceiver is the hardware that both transmits and receives, and antenna gain describes how an antenna concentrates energy in a direction rather than the act of moving waves through space.

**5. What antidote can be applied to the hazardous attitude of machismo?**

- A. Always escalate risk
- B. Taking chances is foolish**
- C. Worry about appearance
- D. Ignore warnings

Machismo is a hazardous attitude that pushes you to prove yourself by taking unnecessary risks. The antidote is recognizing that taking chances is foolish. This mindset centers you on evaluating risks, following procedures, and avoiding actions driven by bravado. It encourages slowing down, checking your setup, and relying on trained safeguards rather than pushing past safe limits. Choosing this antidote helps prevent overconfidence from leading to anything that could threaten the drone, handlers, or bystanders. By contrast, options that push for more risk, focus on appearance, or ignore warnings would not reduce danger and can increase it.

**6. Which statement best describes whether there are two acceptable reasons to lose visual line of sight (VLOS) momentarily?**

- A. True
- B. In some unusual cases
- C. Only with authorization
- D. False**

Maintaining visual line of sight is essential for safe drone operation. You should keep the aircraft in your direct view and respond immediately if it disappears from sight. There isn't a rule that allows two separate, acceptable reasons to momentarily lose VLOS; the only time you may briefly lose sight is in an unexpected emergency that requires you to take immediate action. Other scenarios, such as operating beyond VLOS, require proper authorization and procedures (like using a visual observer or a waiver), but they are not treated as legitimate "momentary VLOS loss" reasons. So the statement is false because the rules don't provide two acceptable, everyday reasons to momentarily lose VLOS; you either stay in sight or you follow authorized, exceptional procedures. If VLOS is lost, reestablish sight or land safely as soon as possible.

7. During pre-flight preparations, you must anticipate the event of a lost link due to radio frequency communications failure. To be ready, you can program the communication to automatically switch to \_\_\_\_\_.

**A. Satellite Communications**

**B. Cellular Network**

**C. Ground Control**

**D. Backup Radio**

The idea being tested is planning for a loss of the primary radio link by having an independent fallback path for control and telemetry. Satellite communications serve as the best backup because it uses a different path that doesn't rely on local radio frequencies or line-of-sight to a ground station. If the main RF link is disrupted, automatically switching to a satellite link preserves the ability to issue commands and receive status, which is especially important for long-range or obstructed environments where ground-based links can fail or be degraded. Cellular networks depend on nearby towers and internet access, which may be unavailable or unstable in many flying areas. Ground control is the operator's station on the ground; if the link is lost, you can't rely on it to maintain communication. A backup radio is another terrestrial path, which may fail in the same environments or be subject to the same interference as the primary link. Satellite provides a more independent and resilient fallback, making it the best choice for a prepared, automatic switch.

8. How far away can lightning strike from a thunderstorm?

**A. 15 miles**

**B. 5 miles**

**C. 50 miles**

**D. 1 mile**

Lightning can strike far from the visible part of a storm. The electrical activity within a thunderstorm can reach out to the edges and beyond the rain, producing cloud-to-ground bolts that can ground a location many miles away. Because of that reach, a distance like 15 miles is a practical estimate of how far a bolt can travel from a storm. Shorter distances such as 1 mile or 5 miles don't reflect how far lightning can reach, and 50 miles is less typical for most storms. Remember, safety-wise, if you see lightning or hear thunder, you should seek shelter, since a bolt can strike well outside the obvious area of the storm.

**9. What term should be taken into account when choosing datalink hardware?**

**A. Aircraft Size**

**B. FCC**

**C. Noise**

**D. Carrier Wave**

When choosing datalink hardware, the aircraft size matters because it sets the physical and practical constraints for the system. The size, weight, and available power of the aircraft determine what kind of transceiver and antennas you can realistically carry, how they'll be mounted, and how they'll impact the aircraft's balance and power budget. A small drone needs a compact, lightweight, low-power link with small antennas, while a larger UAV can accommodate heavier, more capable equipment that might offer longer range or redundancy. While regulatory factors and signal conditions (like FCC rules, noise, and carrier frequency) are important, they don't determine the fundamental feasibility the way the airframe's size and power budget do.

**10. Induced drag is primarily associated with which aerodynamic phenomenon?**

**A. Induced Drag**

**B. Parasitic Drag**

**C. Skin Drag**

**D. Form Drag**

Induced drag comes from the way a wing generates lift. When lift is produced, air must be deflected downward, which creates wingtip vortices and a downwash behind the wing. This downwash tilts the overall aerodynamic force so that part of it points rearward, adding a backward component that shows up as drag. The effect grows with the amount of lift required (higher lift coefficient) and is reduced by using a wing with a larger span relative to its area (higher aspect ratio), which weakens the wingtip vortices. Parasitic forms of drag—skin friction, form drag, and other non-lift-related losses—aren't tied to the lift-producing flow, so they aren't the primary source of induced drag.

## 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](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://usidronescourse.examzify.com>**

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

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