

# CFI Flight Instructor Airplane (FIA) Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

**Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.**

**ALL RIGHTS RESERVED.**

**No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.**

**Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.**

**SAMPLE**

# Table of Contents

<b>Copyright</b> .....	<b>1</b>
<b>Table of Contents</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>How to Use This Guide</b> .....	<b>4</b>
<b>Questions</b> .....	<b>5</b>
<b>Answers</b> .....	<b>8</b>
<b>Explanations</b> .....	<b>10</b>
<b>Next Steps</b> .....	<b>16</b>

SAMPLE

# 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

SAMPLE

- 1. What happens to the fuel/air mixture as altitude increases if adjustments are not made?**
  - A. The mixture becomes leaner**
  - B. The mixture remains constant**
  - C. The mixture becomes richer**
  - D. The mixture becomes denser**
  
- 2. How should an instructor log the flight training received by a student?**
  - A. In a personal logbook**
  - B. In the airline system**
  - C. It does not need to be logged**
  - D. By certification documents**
  
- 3. What is an essential aspect of a CFI's pre-flight preparation?**
  - A. Reading passenger notes**
  - B. Reviewing local news**
  - C. Appraising maintenance logs**
  - D. Discussing flight routes**
  
- 4. What categories of aircraft can a Certified Flight Instructor (CFI) provide instruction for?**
  - A. Airplane, Helicopter, Glider, Heavier-than-air**
  - B. Airplane, Rotorcraft, Glider, Lighter-than-air**
  - C. Airplane, Rotorcraft, Blimp, Balloon**
  - D. Airplane, Jet, Glider, Seaplane**
  
- 5. What does CRM stand for and why is it important in aviation?**
  - A. Control Resource Management; it's essential for regulatory compliance**
  - B. Crew Relationship Management; it fosters better instructor-student relations**
  - C. Crew Resource Management; it's an approach to optimizing teamwork and communication in the cockpit for improved safety**
  - D. Captain Resource Management; it focuses on the authority of the pilot**

- 6. What does the term "load factor" refer to in aviation?**
- A. The total weight of the aircraft in flight**
  - B. The ratio of lift generated by an aircraft to its weight**
  - C. The pressure exerted by the engines during takeoff**
  - D. The relationship between fuel consumption and payload**
- 7. What is critical for night flying operations?**
- A. Avoiding all forms of technology**
  - B. Adapting to limited visibility and planning accordingly**
  - C. Flying only during the daytime for practice**
  - D. Minimizing communication with air traffic control**
- 8. Can a student with a private pilot certificate use their airplane training towards a rotorcraft rating?**
- A. No, it cannot be used**
  - B. Yes, some experience can be credited**
  - C. Only if they take the rotorcraft training first**
  - D. Only for night flying certification**
- 9. What happens to a flight instructor who has not satisfactorily completed a flight review?**
- A. They are authorized to fly solo**
  - B. They are not authorized to fly solo**
  - C. They can only teach ground school**
  - D. They can teach without restrictions**
- 10. What is the primary purpose of a cross-country flight?**
- A. To practice emergency landing techniques**
  - B. To increase a student's knowledge of air traffic control**
  - C. To test navigation skills and increase a student's comfort level flying away from familiar airports**
  - D. To strengthen a student's communication skills in the cockpit**

## Answers

SAMPLE

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

SAMPLE

## **Explanations**

SAMPLE

**1. What happens to the fuel/air mixture as altitude increases if adjustments are not made?**

- A. The mixture becomes leaner**
- B. The mixture remains constant**
- C. The mixture becomes richer**
- D. The mixture becomes denser**

As altitude increases, the atmospheric pressure decreases, which in turn affects the density of the air. If adjustments to the fuel/air mixture are not made, the mixture becomes leaner. This leaner mixture occurs because the reduction in air density results in less oxygen available for combustion in the engine. In a normally aspirated engine, as altitude increases, the air entering the engine is less dense, and consequently, if the fuel flow remains constant while the amount of air decreases, the fuel/air mixture becomes leaner, leading to a higher fuel-to-air ratio. This can cause engine performance issues if not corrected, as a lean mixture can lead to overheating and potential engine damage. Therefore, understanding the need to enrich the mixture at higher altitudes is crucial for optimal engine performance and operation, as failing to do so can negatively impact both the efficiency and safety of flight operations.

**2. How should an instructor log the flight training received by a student?**

- A. In a personal logbook**
- B. In the airline system**
- C. It does not need to be logged**
- D. By certification documents**

An instructor should log the flight training received by a student in a personal logbook to maintain an accurate and comprehensive record. The logbook serves as an official record that documents each flight lesson, the topics covered, the duration of the flight, and the progress the student has made. This is important not only for tracking the student's learning progression but also for future reference, as it can be invaluable for both the student and the instructor during evaluations or when preparing for check rides. Using a personal logbook ensures that there is continuity and consistency in the logging process, as it is an established practice within the flight training community. It allows both the student and the instructor to review past training sessions, identify areas that may require additional focus, and ensure that the training received aligns with the requirements of the applicable regulations for obtaining pilot certifications. Other options like logging in the airline system or certification documents do not provide a direct and personal account of the training process and could lead to gaps in documentation that are necessary for tracking student progress and regulatory compliance.

### 3. What is an essential aspect of a CFI's pre-flight preparation?

- A. Reading passenger notes
- B. Reviewing local news
- C. Appraising maintenance logs**
- D. Discussing flight routes

An essential aspect of a Certified Flight Instructor's (CFI) pre-flight preparation is appraising maintenance logs. This is critical because a CFI must ensure that the aircraft is in a safe and airworthy condition before any flight can occur. Maintenance logs provide vital information about the aircraft's history, including any repairs or maintenance issues that have been addressed and any outstanding discrepancies that may affect the operational capability of the aircraft. Ensuring that all maintenance has been completed and that there are no unresolved issues helps to uphold safety standards and compliance with regulations. This thorough understanding not only protects the flight instructor and students but also reinforces good safety practices—a cornerstone of flight instruction. While other aspects, such as discussing flight routes or reviewing local news, may play roles in flight planning and situational awareness, they do not directly address the aircraft's safety and airworthiness, which is the primary concern when preparing for a flight.

### 4. What categories of aircraft can a Certified Flight Instructor (CFI) provide instruction for?

- A. Airplane, Helicopter, Glider, Heavier-than-air
- B. Airplane, Rotorcraft, Glider, Lighter-than-air**
- C. Airplane, Rotorcraft, Blimp, Balloon
- D. Airplane, Jet, Glider, Seaplane

A Certified Flight Instructor (CFI) is authorized to provide instruction for a specific set of aircraft categories defined by the FAA. The correct choice includes the categories "Airplane," "Rotorcraft," "Glider," and "Lighter-than-air." "Airplane" refers to fixed-wing aircraft, which is perhaps the most common category for instruction. "Rotorcraft" encompasses both helicopters and other types of rotor-driven aircraft. "Glider" pertains to unpowered fixed-wing aircraft that rely on air currents for flight. "Lighter-than-air" includes hot air balloons and airships, which are capable of flight through buoyancy rather than traditional aerodynamic lift. This combination clearly aligns with the structure of aircraft categories recognized by the FAA and enables the CFI to instruct students across a broad spectrum of aviation types. Understanding this categorization is essential for both the instructor and the students, as it outlines the scope of instructional authority and the different methods and regulations that apply to each category of aircraft. The other choices either mislabel aircraft categories or do not align with the FAA's official categories of flight instructor authorization. For instance, terms like "heavier-than-air" are overly broad and not specifically recognized as a category within the FAA framework, while "

## 5. What does CRM stand for and why is it important in aviation?

- A. Control Resource Management; it's essential for regulatory compliance
- B. Crew Relationship Management; it fosters better instructor-student relations
- C. Crew Resource Management; it's an approach to optimizing teamwork and communication in the cockpit for improved safety**
- D. Captain Resource Management; it focuses on the authority of the pilot

CRM stands for Crew Resource Management, and it plays a crucial role in aviation by emphasizing the importance of teamwork, communication, and decision-making within the cockpit environment. The essence of CRM lies in its ability to enhance safety through effective collaboration among crew members. In aviation, where the complexity and dynamic nature of operations require quick, well-informed decisions, CRM becomes indispensable. It encourages pilots and crew members to utilize all available resources—human, informational, and operational—effectively. By fostering an environment of open communication and mutual respect, CRM helps to ensure that everyone onboard can contribute to situational awareness and problem-solving, ultimately leading to better outcomes in high-pressure scenarios. Using CRM techniques, crew members can better manage stress and workload, share critical information, and mitigate the risks associated with human error. This holistic approach not only enhances operational efficiency but significantly contributes to overall flight safety.

## 6. What does the term "load factor" refer to in aviation?

- A. The total weight of the aircraft in flight
- B. The ratio of lift generated by an aircraft to its weight**
- C. The pressure exerted by the engines during takeoff
- D. The relationship between fuel consumption and payload

The term "load factor" in aviation specifically refers to the ratio of lift generated by an aircraft to its weight. This ratio is a crucial concept for understanding an aircraft's performance during various phases of flight. In essence, it indicates the amount of lift the aircraft is producing relative to the gravitational force acting on it. When an aircraft is in level flight, the load factor is 1 (or 1G), meaning that the lift produced equals the weight of the aircraft. During maneuvers, particularly turns, climb, or descent, the load factor can increase, meaning that the aircraft must generate more lift than its weight to maintain flight. A higher load factor can lead to increased stall speeds and greater stress on the aircraft structure, making it a critical consideration for flight safety and performance. The other options do not accurately describe the concept of load factor. The total weight of the aircraft in flight is a separate consideration. The pressure exerted by engines during takeoff is related to thrust rather than load factor. Lastly, the relationship between fuel consumption and payload pertains to operational efficiency and economics rather than the aerodynamic principles that define load factor.

## 7. What is critical for night flying operations?

- A. Avoiding all forms of technology
- B. Adapting to limited visibility and planning accordingly**
- C. Flying only during the daytime for practice
- D. Minimizing communication with air traffic control

For night flying operations, adapting to limited visibility and planning accordingly is essential. During nighttime, pilots face reduced visibility, which can significantly impact their ability to navigate and identify other aircraft or obstacles. Proper planning includes pre-flight preparations such as route selection, understanding lighting systems at airports, and utilizing instruments effectively, as natural references like the horizon may be less discernible. Furthermore, night flying often necessitates a heightened awareness of lighting, both in terms of aircraft and ground features, and an understanding of how limited visibility affects perception and situational awareness. Effective use of cockpit instruments becomes crucial, as they provide vital information that may not be visually apparent due to darkness. In contrast, avoiding all forms of technology could be detrimental, as modern navigation and communication tools enhance safety and efficiency during night operations. Flying only during the daytime for practice limits a pilot's experience and exposure to important night flying skills. Minimizing communication with air traffic control can lead to misunderstandings and increased risks, as clear communication is critical in maintaining safe operations, especially under the challenging conditions of night flying.

## 8. Can a student with a private pilot certificate use their airplane training towards a rotorcraft rating?

- A. No, it cannot be used
- B. Yes, some experience can be credited**
- C. Only if they take the rotorcraft training first
- D. Only for night flying certification

A student with a private pilot certificate can indeed use some of their airplane training toward obtaining a rotorcraft rating. This is primarily because aviation training holds certain transferable skills and knowledge that are common across different types of aircraft. For instance, the fundamental principles of flight, navigation, communication, and aeronautical decision-making are applicable to both airplanes and helicopters. When transitioning from fixed-wing to rotorcraft, a student's prior training might be credited towards the total flight time or specific areas of training required for the rotorcraft rating. However, it's essential to remember that there will still be rotorcraft-specific training needed, including understanding the unique characteristics of helicopters and their operational limitations. Therefore, while some credit can be applied, the student must undertake additional training and meet the specific requirements for the rotorcraft rating to ensure they are competent and safe to operate such aircraft.

**9. What happens to a flight instructor who has not satisfactorily completed a flight review?**

- A. They are authorized to fly solo**
- B. They are not authorized to fly solo**
- C. They can only teach ground school**
- D. They can teach without restrictions**

A flight instructor who has not satisfactorily completed a flight review is not authorized to fly solo. A flight review is a critical component of maintaining proficiency and ensuring that an instructor is up to date with current regulations, procedures, and safety practices. This requirement applies to all certified flight instructors to ensure that they can effectively teach students and manage flight operations safely. The purpose of the flight review is to assess the instructor's skills in both flying and teaching. If a flight instructor does not complete this review satisfactorily, it indicates that they may not be in a position to safely conduct flight operations, including those involving solo flights. Thus, their inability to carry out a flight review means they cannot perform solo flights, ensuring adherence to safety standards set by aviation authorities. In contrast, the other options suggest varying levels of authority that are misaligned with regulatory requirements. Teaching ground school or having unrestricted teaching capabilities would also not apply without completing the necessary flight review, reinforcing that all aspects of flight instructor duties are contingent on maintaining current proficiency and certification.

**10. What is the primary purpose of a cross-country flight?**

- A. To practice emergency landing techniques**
- B. To increase a student's knowledge of air traffic control**
- C. To test navigation skills and increase a student's comfort level flying away from familiar airports**
- D. To strengthen a student's communication skills in the cockpit**

The primary purpose of a cross-country flight is to test navigation skills and increase a student's comfort level flying away from familiar airports. During a cross-country flight, pilots must demonstrate their ability to plan and execute a flight that includes navigation over various terrain, managing communications, and conducting flight planning involving different airports. This experience is crucial in developing a pilot's confidence when flying to unfamiliar destinations and improves their ability to use navigational tools and techniques effectively in real-world scenarios. In addition to enhancing navigation skills, cross-country flights expose students to various operational procedures related to air traffic control and different flying environments. By flying away from familiar airports, students learn to adapt to diverse conditions, which is essential for safe piloting. The skills gained from cross-country flying are fundamental building blocks for a pilot's overall proficiency and confidence in their flying abilities.

## 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://cfifia.examzify.com>**

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

SAMPLE