

# Sporty's Flight Instructor Refresher Course (FIRC) Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. Why is it essential to keep a well-organized training record?**
  - A. To track maintenance schedules of aircraft**
  - B. For tracking student progress and compliance with regulatory requirements**
  - C. To maintain an accurate record of instructor availability**
  - D. To ensure all students receive identical instruction**
- 2. What does the FAA emphasize to reduce VFR flight into IMC?**
  - A. Training on emergency landings**
  - B. Training in navigation skills**
  - C. Training to avoid hazardous weather**
  - D. Training to increase flight hours**
- 3. Why is it important for CFIs to be knowledgeable about "glass cockpit" equipped TAA aircraft?**
  - A. They must be able to troubleshoot all systems**
  - B. They need to ensure pilots can operate without assistance**
  - C. They must provide adequate support for complex systems**
  - D. They should understand new aircraft complexities**
- 4. When a pilot applies forward pressure to the control yoke to initiate a descent, what happens momentarily to the angle of attack?**
  - A. The angle of attack is increased immediately**
  - B. The angle of attack remains unchanged**
  - C. The angle of attack is decreased momentarily**
  - D. The angle of attack fluctuates significantly**
- 5. What role does feedback play in the FIRC's recommended instructional strategies?**
  - A. It is optional and should be avoided**
  - B. It is essential for student growth and understanding**
  - C. It should only be given during exams**
  - D. It can confuse students**

- 6. According to the FAA, which document should flight instructors refer to for visual scanning and collision avoidance information?**
- A. Aeronautical Information Manual**
  - B. Advisory Circular 90-48**
  - C. Federal Aviation Regulations**
  - D. Pilot's Operating Handbook**
- 7. With the improvements in weather reporting, which statement is true?**
- A. Weather forecasts have become less reliable**
  - B. Numerous weather apps have simplified access to weather information**
  - C. Both statements are correct**
  - D. Neither of these answers are correct**
- 8. What did an NTSB study reveal about pilots trained on conventional flight instruments?**
- A. They possess superior skills for any cockpit type**
  - B. They are generally well-prepared to operate glass cockpit systems**
  - C. Their experience does not adequately prepare them for complex glass cockpit systems**
  - D. They require no additional training for glass cockpits**
- 9. What should an adequate lesson plan ensure for each client?**
- A. It includes as much information as possible**
  - B. It focuses exclusively on individual competency**
  - C. It assures wise material selection and relevance**
  - D. It allows abandonment of objectives**
- 10. What can the proper use of checklists help reduce in flight training?**
- A. Cost of training**
  - B. Time spent training**
  - C. Risk of safety incidents**
  - D. Number of required instructors**

## **Answers**

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

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## **Explanations**

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**1. Why is it essential to keep a well-organized training record?**

- A. To track maintenance schedules of aircraft**
- B. For tracking student progress and compliance with regulatory requirements**
- C. To maintain an accurate record of instructor availability**
- D. To ensure all students receive identical instruction**

Keeping a well-organized training record is vital for several reasons, primarily focused on tracking student progress and ensuring compliance with regulatory requirements. When flight instructors maintain detailed training records, they can effectively monitor each student's achievements, areas for improvement, and overall progression through the training syllabus. This systematic documentation helps instructors identify which topics have been covered and what skills need further development, allowing for a tailored instructional approach that addresses individual student needs. Additionally, regulatory authorities require specific documentation to demonstrate that training complies with established standards. Well-maintained records are crucial during audits or evaluations, as they provide evidence that all necessary training elements have been completed in accordance with Federal Aviation Administration (FAA) regulations. This organized record-keeping also helps establish a clear path for students, enhancing their learning experience and aiding in their development as safe and knowledgeable pilots.

**2. What does the FAA emphasize to reduce VFR flight into IMC?**

- A. Training on emergency landings**
- B. Training in navigation skills**
- C. Training to avoid hazardous weather**
- D. Training to increase flight hours**

The FAA emphasizes training to avoid hazardous weather as a crucial aspect of reducing VFR (Visual Flight Rules) flight into IMC (Instrument Meteorological Conditions). This is because many accidents involving VFR pilots entering IMC conditions stem from pilots not recognizing or adequately avoiding adverse weather that can lead to loss of control or spatial disorientation. By focusing on training that helps pilots understand weather patterns, recognize the signs of deteriorating conditions, and effectively utilize weather information, the FAA aims to instill the importance of planning flights with suitable routes that avoid hazardous weather conditions. This type of training empowers pilots to make informed decisions and enhances their situational awareness, which is vital for maintaining safety in flight operations. In contrast, while emergency landing techniques, navigation skills, and increasing flight hours contribute to overall pilot proficiency, they do not directly address the specific issue of entering IMC from VFR.

**3. Why is it important for CFIs to be knowledgeable about "glass cockpit" equipped TAA aircraft?**

- A. They must be able to troubleshoot all systems**
- B. They need to ensure pilots can operate without assistance**
- C. They must provide adequate support for complex systems**
- D. They should understand new aircraft complexities**

Understanding new aircraft complexities is crucial for Certified Flight Instructors (CFIs) because "glass cockpit" equipped Technically Advanced Aircraft (TAA) utilize sophisticated avionics and integrated systems that can significantly differ from traditional aircraft instruments. These advanced systems often include multifunction displays, automated flight systems, and digital interfaces that require a solid comprehension of how they function and interact. A CFI must be well-versed in these complexities to both teach their students effectively and ensure that pilots are safe and proficient when operating such equipment. This knowledge not only aids in instruction but also helps in troubleshooting during flight training and promotes a better understanding of aeronautical decision-making influenced by advanced systems. This approach enhances the training experience, making sure pilots are prepared for the realities of flying modern aircraft, ultimately fostering safety and efficiency in flight operations.

**4. When a pilot applies forward pressure to the control yoke to initiate a descent, what happens momentarily to the angle of attack?**

- A. The angle of attack is increased immediately**
- B. The angle of attack remains unchanged**
- C. The angle of attack is decreased momentarily**
- D. The angle of attack fluctuates significantly**

When a pilot applies forward pressure to the control yoke to initiate a descent, the angle of attack decreases momentarily due to the nose of the aircraft being lowered in relation to the relative wind. This change in pitch attitude reduces the angle at which the oncoming airflow meets the wing, thereby decreasing the angle of attack. During a descent, the goal is typically to adjust the aircraft's flight path to a lower altitude, which involves lowering the nose. As the pilot pushes forward on the yoke, the aircraft moves in a downward direction, and thus the wings are less inclined to the relative wind. This immediate reduction in the lift vector relative to the weight of the aircraft results in a decrease in the angle of attack. It is important to recognize that a decrease in angle of attack can lead to a reduction in lift, which is necessary when descending, as the aircraft aims to maintain controlled flight while descending at the desired rate. Understanding this relationship is crucial for pilots as they manage their aircraft's performance and respond appropriately to various flight scenarios.

**5. What role does feedback play in the FIRC's recommended instructional strategies?**

- A. It is optional and should be avoided**
- B. It is essential for student growth and understanding**
- C. It should only be given during exams**
- D. It can confuse students**

Feedback plays a crucial role in the instructional strategies recommended by the FIRC, as it is essential for student growth and understanding. This aligns with the fundamental principles of effective teaching and learning, where constructive feedback helps students identify their strengths and areas that need improvement. When instructors provide timely and specific feedback, it facilitates a deeper comprehension of the subject matter and encourages students to reflect on their performance. Such feedback allows learners to recognize what they are doing well and to understand the steps they need to take for progress, thereby enhancing their confidence and motivation. This process is particularly important in aviation training, where safety and proficiency are paramount. Effective feedback fosters a continuous learning environment where students feel supported and engaged in their own development, ultimately leading to more successful training outcomes.

**6. According to the FAA, which document should flight instructors refer to for visual scanning and collision avoidance information?**

- A. Aeronautical Information Manual**
- B. Advisory Circular 90-48**
- C. Federal Aviation Regulations**
- D. Pilot's Operating Handbook**

The FAA has established specific guidance on visual scanning techniques and collision avoidance through various documents. Advisory Circular 90-48, in particular, is dedicated to providing pilots with strategies for visual scanning, understanding right-of-way rules, and discussing methods to enhance collision avoidance during flight. This circular emphasizes the importance of maintaining situational awareness and effective scanning practices to reduce the risk of mid-air collisions. While the Aeronautical Information Manual contains valuable information about flight operations, it is broader in scope and does not focus specifically on visual scanning. The Federal Aviation Regulations outline the legal requirements and standards for operating in the National Airspace System but do not provide detailed techniques for visual scanning and collision avoidance. Similarly, the Pilot's Operating Handbook is designed for specific aircraft and includes operational limits and procedures, which do not pertain directly to the general topic of visual scanning and collision avoidance. Thus, Advisory Circular 90-48 is the most relevant document for flight instructors seeking to teach these crucial safety techniques.

- 7. With the improvements in weather reporting, which statement is true?**
- A. Weather forecasts have become less reliable**
  - B. Numerous weather apps have simplified access to weather information**
  - C. Both statements are correct**
  - D. Neither of these answers are correct**

In evaluating the advancements in weather reporting, it is evident that numerous weather apps have indeed simplified access to weather information for users. These apps leverage modern technology to provide real-time data, forecasts, and alerts, making it easier for individuals to stay informed about current conditions. This widespread access contributes to more informed decision-making regarding weather-related activities. The assertion that weather forecasts have become less reliable contradicts the reality of advancements in meteorological science. Over time, improvements in technology, such as satellite imagery, radar systems, and advanced computer models, have actually enhanced the accuracy and reliability of weather forecasts. Therefore, stating that both claims presented in the question are correct is not accurate. Understanding these factors demonstrates the impact of improved technology and reporting methods on how we gather and interpret weather data. It highlights the importance of accessing reliable sources rather than assuming a decline in forecast reliability. The correct evaluation recognizes the significant role that technology plays in modern weather reporting and accessibility.

- 8. What did an NTSB study reveal about pilots trained on conventional flight instruments?**
- A. They possess superior skills for any cockpit type**
  - B. They are generally well-prepared to operate glass cockpit systems**
  - C. Their experience does not adequately prepare them for complex glass cockpit systems**
  - D. They require no additional training for glass cockpits**

The study conducted by the National Transportation Safety Board (NTSB) revealed that pilots who were trained primarily on conventional flight instruments may not have the skills necessary to effectively operate complex glass cockpit systems. This is largely due to the differences in interface, functionality, and the cognitive demands placed on pilots when transitioning to newer technology. Pilots trained on traditional instruments may be accustomed to reading analog gauges and interpreting data in a linear fashion, whereas glass cockpits often integrate multiple functions and display information in a layered, digital format. The complexity of these systems can lead to information overload, making it more challenging for pilots without specific training on glass cockpits to interpret and respond to critical flight data. Conventional training does not typically include the unique features and functionalities of glass cockpits, such as multifunction displays, enhanced situational awareness tools, and integration of navigation and communication systems. Therefore, dedicated training on glass cockpits is essential for pilots to operate these aircraft safely and efficiently, which aligns with the findings from the NTSB study.

**9. What should an adequate lesson plan ensure for each client?**

- A. It includes as much information as possible**
- B. It focuses exclusively on individual competency**
- C. It assures wise material selection and relevance**
- D. It allows abandonment of objectives**

An adequate lesson plan should assure wise material selection and relevance, as this ensures that the instructional content is appropriate for the client's learning needs and objectives. When the material selected aligns with both the client's current understanding and the goals of the training, it enhances the effectiveness of the teaching process. This relevance helps maintain engagement and facilitates better retention of knowledge and skills, leading to a more productive learning experience. Selecting appropriate materials also means that the instructor can tailor the lesson to suit the client's pace and learning style, which is essential for maximizing their potential and proficiency. It allows for a structured approach that can adapt to the client's needs while ensuring that the content remains pertinent to their development as a pilot. Such strategic planning is key to a successful learning environment.

**10. What can the proper use of checklists help reduce in flight training?**

- A. Cost of training**
- B. Time spent training**
- C. Risk of safety incidents**
- D. Number of required instructors**

The proper use of checklists in flight training is essential in reducing the risk of safety incidents. Checklists serve as a systematic way to ensure that all critical tasks and procedures are followed during flight operations. By using checklists, flight instructors and students can help prevent omissions of crucial steps that might otherwise lead to dangerous situations, such as failures to configure the aircraft properly for takeoff or landing. Checklists promote consistency and standardization in procedures, which is particularly important in aviation where even minor errors can have significant consequences. By carefully documenting each step and verifying the completion of tasks, checklist use enhances situational awareness and reinforces best practices. This practice is crucial for developing safety habits and skills that ultimately contribute to a safer flying environment, reducing the likelihood of accidents and incidents in training scenarios and future operations.