

Commercial Pilot Exam Questions

Airman Knowledge Test Question Bank

09/17/2012

Bank: (Commercial Pilot)

Airman Knowledge Test Question Bank

The FAA computer-assisted testing system is supported by a series of supplement publications. These publications, available through several aviation publishers, include the graphics, legends, and maps that are needed to successfully respond to certain test items. Use the following URL to download a complete list of associated supplement books: http://www.faa.gov/training_testing/testing/airmen/test_questions/

The Learning Statement Reference Guide for Airman Knowledge Testing contains listings of learning statements with their associated codes. It can be located at: http://www.faa.gov/training_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf

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|----|--------|-----|
| 1. | PLT312 | COM |
|----|--------|-----|
- (Refer to figure 5.) The vertical line from point D to point G is represented on the airspeed indicator by the maximum speed limit of the
- A) green arc.
 - B) yellow arc.
 - C) white arc.
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|----|--------|-----|
| 2. | PLT242 | COM |
|----|--------|-----|
- Lift on a wing is most properly defined as the
- A) force acting perpendicular to the relative wind.
 - B) differential pressure acting perpendicular to the chord of the wing.
 - C) reduced pressure resulting from a laminar flow over the upper camber of an airfoil, which acts perpendicular to the mean camber.
-
- | | | |
|----|--------|-----|
| 3. | PLT166 | COM |
|----|--------|-----|
- To determine pressure altitude prior to takeoff, the altimeter should be set to
- A) the current altimeter setting.
 - B) 29.92 inches Hg and the altimeter indication noted.
 - C) the field elevation and the pressure reading in the altimeter setting window noted.
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- | | | |
|----|--------|-----|
| 4. | PLT215 | COM |
|----|--------|-----|
- Which statement is true about magnetic deviation of a compass? Deviation
- A) varies over time as the agonic line shifts.
 - B) varies for different headings of the same aircraft.
 - C) is the same for all aircraft in the same locality.
-
- | | | |
|----|--------|-----|
| 5. | PLT343 | COM |
|----|--------|-----|
- Applying carburetor heat will
- A) not affect the mixture.
 - B) lean the fuel/air mixture.
 - C) enrich the fuel/air mixture.
-
- | | | |
|----|--------|-----|
| 6. | PLT251 | COM |
|----|--------|-----|
- Consider a reciprocating aircraft engine. Detonation can be caused by
- A) a "rich" mixture.
 - B) low engine temperatures.

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Commercial pilot exam questions are an essential aspect of the journey to becoming a certified commercial pilot. These questions not only assess the theoretical knowledge required for flying but also test a candidate's understanding of regulations, procedures, and practical scenarios that pilots encounter. This article aims to provide an overview of the types of questions that aspiring commercial pilots might face, tips for effective preparation, and resources to aid in their studies.

Understanding the Commercial Pilot Exam

The commercial pilot exam is designed to evaluate a candidate's knowledge in various areas crucial for safe and effective flying. The exam typically includes a written test and an oral and practical test, which together ensure that the pilot has the necessary skills and knowledge to operate an aircraft commercially.

Components of the Exam

The exam is divided into the following key components:

1. Written Test: This portion consists of multiple-choice questions covering a wide range of topics.
2. Oral Test: Conducted by an examiner, this part assesses the candidate's knowledge through questions that require verbal responses.
3. Practical Test: Often referred to as a checkride, this component evaluates the candidate's flying skills and ability to handle various flight maneuvers and situations.

Types of Commercial Pilot Exam Questions

The questions in a commercial pilot exam can be categorized into several areas:

1. Aerodynamics

Understanding the principles of flight is crucial for any pilot. Sample questions may include:

- What are the four forces acting on an aircraft in flight?
- Explain how lift is generated.
- What is the relationship between angle of attack and stall?

2. Regulations

Commercial pilots must have a solid grasp of aviation regulations. Questions might cover:

- What is the purpose of the Federal Aviation Regulations (FAR)?
- Describe the privileges and limitations of a commercial pilot license.
- What are the requirements for obtaining a second-class medical certificate?

3. Flight Operations

This section tests knowledge related to flight planning and operations. Possible questions include:

- How do you calculate weight and balance for an aircraft?
- What are the standard procedures for a VFR (Visual Flight Rules) flight plan?
- Explain the significance of NOTAMs (Notices to Airmen).

4. Navigation

Navigational skills are critical for pilots. Sample questions may include:

- What is the difference between true north and magnetic north?
- How do you calculate the drift angle?
- Describe the use of VOR (VHF Omnidirectional Range) in navigation.

5. Meteorology

Understanding weather patterns is vital for safe flying. Questions might focus on:

- What are the different types of clouds, and what weather do they indicate?
- Explain the significance of a TAF (Terminal Aerodrome Forecast).
- How do you interpret a METAR (Meteorological Aerodrome Report)?

6. Aircraft Systems

Knowledge of the aircraft's systems is essential. Sample questions may include:

- Describe the function of the pitot-static system.
- What are the components of the electrical system in an aircraft?
- Explain how the fuel system works in a typical piston aircraft.

Preparation Strategies for Commercial Pilot Exam Questions

Preparing for the commercial pilot exam requires a systematic approach. Here are some effective strategies:

1. Study the Material Thoroughly

- Utilize the FAA's publications, including the Pilot's Handbook of Aeronautical Knowledge and the Airplane Flying Handbook.
- Familiarize yourself with the FAR, specifically the parts that relate to commercial flying.

2. Take Practice Tests

- Use online resources and apps that offer practice questions and exams.
- Review FAA sample exam questions to understand the format and difficulty.

3. Join a Ground School

- Enroll in a ground school program, which can provide structured learning and access to experienced instructors.
- Participate in study groups with fellow students to enhance knowledge and discuss challenging topics.

4. Use Flashcards

- Create flashcards for key concepts, terms, and regulations that are frequently tested.
- Regularly review these flashcards to reinforce memory retention.

5. Seek Guidance from Experienced Pilots

- Connect with mentors or flight instructors who can offer insights and advice based on their experiences.
- Attend aviation seminars and workshops to expand your knowledge and network.

Resources for Aspiring Commercial Pilots

A variety of resources are available to help candidates prepare for commercial pilot exam questions:

- **Books:** Look for titles like "Commercial Pilot Test Prep" and "The Complete Private Pilot" for comprehensive study guides.
- **Online Courses:** Websites like Pilot Institute and King Schools provide interactive courses that cover all essential topics.
- **Apps:** Consider using apps like ForeFlight or Sporty's Study Buddy for on-the-go learning and practice.
- **Forums and Communities:** Engage with online aviation forums, such as AOPA and PPRuNe, to ask questions and share experiences.

Conclusion

In conclusion, commercial pilot exam questions encompass a wide array of topics that test a candidate's theoretical knowledge and practical skills. By understanding the different types of questions, employing effective preparation strategies, and utilizing available resources, aspiring

pilots can increase their chances of success on the exam. Becoming a commercial pilot is a challenging yet rewarding endeavor, requiring dedication, study, and a passion for aviation. With the right preparation, candidates can confidently navigate the path to achieving their commercial pilot license.

Frequently Asked Questions

What subjects are typically covered in the commercial pilot written exam?

The commercial pilot written exam typically covers subjects such as aerodynamics, navigation, meteorology, regulations, aircraft systems, and flight operations.

How many questions are on the FAA Commercial Pilot written exam?

The FAA Commercial Pilot written exam consists of 100 multiple-choice questions.

What is the passing score for the commercial pilot written exam?

The passing score for the commercial pilot written exam is 70%.

Are there practice exams available for the commercial pilot written test?

Yes, there are many resources and practice exams available online and in various study guides to help candidates prepare for the commercial pilot written test.

What is the format of the commercial pilot oral exam?

The oral exam for the commercial pilot certificate usually involves a one-on-one session with an FAA examiner, covering flight planning, regulations, and specific aircraft systems.

What is the recommended study time for the commercial pilot written exam?

Most candidates recommend studying for at least 2 to 3 months, dedicating several hours each week to review materials and practice questions.

Can I take the commercial pilot written exam before completing flight training?

Yes, you can take the commercial pilot written exam before completing flight training; passing the exam is often a requirement before you can take the practical test.

What are some common topics that candidates struggle with on the commercial pilot exam?

Common topics that candidates struggle with include complex aerodynamics, advanced navigation techniques, and regulations regarding flight operations.

Is there a difference between the FAA and EASA commercial pilot exams?

Yes, the FAA and EASA commercial pilot exams differ in structure, content, and regulatory standards, so candidates should study the specific requirements for the jurisdiction they are testing in.

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