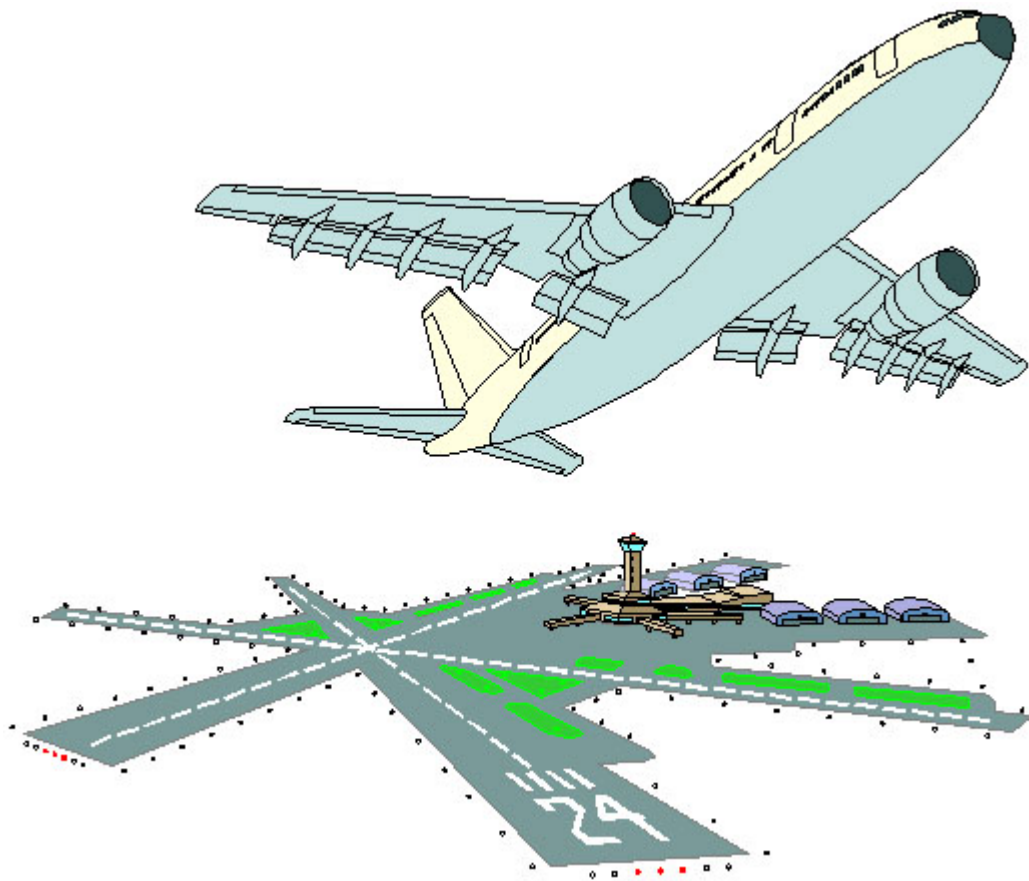


COMMERCIAL PILOT KNOWLEDGE TEST GUIDE



2007



**COMMERCIAL PILOT
KNOWLEDGE TEST GUIDE**

2007

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Flight Standards Service

CONTENTS

Introduction	1
Knowledge Test Eligibility Requirements	1
Knowledge Areas on the Tests	2
Descriptions of the Tests.....	2
Process for Taking a Knowledge Test	3
Validity of Airman Knowledge Test Reports	4
Use of Test Aids and Materials	4
Dyslexic Testing Procedures.....	5
Cheating or Other Unauthorized Conduct	6
Retesting Procedures.....	6
Obtaining Training and Testing Publications and General Information	6

INTRODUCTION

FAA-G-8082-5C, Commercial Pilot Knowledge Test Guide, provides information for preparing you to take one or all of the following knowledge tests. This document supersedes FAA-G-8082-5B, dated 2007.

The minimum passing score is 70 percent.

TEST NAME	TEST CODE
Commercial Pilot—Airplane	CAX
Commercial Pilot—Rotorcraft—Helicopter	CRH
Commercial Pilot—Rotorcraft—Gyroplane	CRG
Commercial Pilot—Glider	CGX
Commercial Pilot—Balloon—Hot Air	CBH
Commercial Pilot—Balloon—Gas	CBG
Commercial Pilot—Lighter-Than-Air—Airship	CLA
Military Competency—Airplane	MCA
Military Competency—Helicopter	MCH

Federal Aviation Administration (FAA) airman knowledge tests are effective instruments for aviation safety and regulation measurement. However, these tests can only sample the vast amount of knowledge every pilot needs to operate safely in the National Airspace System (NAS).

Comments may be e-mailed to AFS630Comments@faa.gov.

KNOWLEDGE TEST ELIGIBILITY REQUIREMENTS

If you are pursuing a Commercial Pilot Certificate, you should review Title 14 of the Code of Federal Regulations (14 CFR) part 61, subpart F, Medical Certificates: Requirement and Duration, and 14 CFR part 61, section 61.35, Knowledge Test: Prerequisites and Passing Grades.

To be eligible to take the knowledge test, you must have

1. Received an endorsement from an authorized instructor certifying that you have accomplished a ground-training or a home-study course for the certificate or rating sought and you are prepared for the knowledge test; and
2. Proper identification at the time of application that contains your
 - a. photograph
 - b. signature
 - c. date of birth, which shows you meet or will meet the age requirements of this part for the certificate sought before the expiration date of the Airman Knowledge Test Report, and
 - d. actual residential address, if different from your mailing address.

KNOWLEDGE AREAS ON THE TESTS

Commercial pilot tests are comprehensive because they test your knowledge in many subject areas. If you are pursuing a commercial pilot certificate, you should review the appropriate knowledge areas listed below, pertinent to the category sought. Airship applicants should review instrument procedures. Balloon and airship applicants should include a review of the fundamentals of instruction.

DESCRIPTIONS OF THE TESTS

All test questions are the objective, multiple-choice type. Each question can be answered by the selection of a single response. Each test question is independent of other questions; therefore, a correct response to one does not depend upon, or influence, the correct response to another. **The minimum passing score is 70 percent.**

The following tests each contain 100 questions, and you are allowed 3 hours to complete each test.

- Commercial Pilot—Airplane
- Commercial Pilot—Rotorcraft—Helicopter
- Commercial Pilot—Rotorcraft—Gyroplane
- Commercial Pilot—Glider
- Commercial Pilot—Balloon—Hot Air
- Commercial Pilot—Lighter-Than-Air—Airship

The following test contains 60 questions, and you are allowed 2.5 hours to complete the test.

- Commercial Pilot—Balloon—Gas

The following tests each contain 50 questions, and you are allowed 2 hours to complete each test.

- Military Competency—Airplane
- Military Competency—Helicopter

Communication between individuals through the use of words is a complicated process. In addition to being an exercise in the application and use of aeronautical knowledge, a knowledge test is also an exercise in communication since it involves the use of the written language. Since the tests involve written rather than spoken words, communication between the test writer and the person being tested may become a difficult matter if care is not exercised by both parties. Consequently, considerable effort is expended to write each question in a clear, precise manner. Make sure you carefully read the instructions given with each test, as well as the statements in each test item.

When taking a test, keep the following points in mind.

- Answer each question in accordance with the latest regulations and guidance publications.
- Read each question carefully before looking at the possible answers. You should clearly understand the problem before attempting to solve it.

- After formulating an answer, determine which choice corresponds with that answer. The answer chosen should completely resolve the problem.
- From the answers given, it may appear that there is more than one possible answer; however, there is only one answer that is correct and complete. The other answers are either incomplete, erroneous, or represent common misconceptions.
- If a certain question is difficult for you, it is best to mark it for review and proceed to the next question. After you answer the less difficult questions, return to those which you marked for review and answer them. The review marking procedure will be explained to you prior to starting the test. Although the computer should alert you to unanswered questions, make sure every question has an answer recorded. This procedure will enable you to use the available time to maximum advantage.
- When solving a calculation problem, select the answer closest to your solution. The problem has been checked with various types of calculators; therefore, if you have solved it correctly, your answer will be closer to the correct answer than any of the other choices.

PROCESS FOR TAKING A KNOWLEDGE TEST

The FAA has available hundreds of computer testing centers worldwide. These testing centers offer the full range of airman knowledge tests including military competence, instrument foreign pilot, and pilot examiner pre-designated tests. A list of computer testing designees (CTDs) and phone numbers are provided in the section titled, *Obtaining Training and Testing Publications and General Information*.

The first step in taking a knowledge test is the registration process. You may either call the central toll free 800 numbers or simply use the walk-in basis. If you choose to use the toll free 800 numbers to register, you will need to select a testing center, schedule a test date, and make financial arrangements for test payment. You may register for tests several weeks in advance, and you may cancel your appointment according to the CTD's cancellation policy. If you do not follow the CTD's cancellation policies, you could be subject to a cancellation fee.

The next step in taking a knowledge test is providing proper identification. You should determine what knowledge test prerequisites are necessary before going to the computer testing center. Your instructor or local Flight Standards District Office (FSDO) can assist you with what documentation to take to the testing facility. Testing center personnel will not begin the test until your identification is verified.

Acceptable forms of authorization.

- A certificate of graduation or a statement of accomplishment certifying the satisfactory completion of the ground school portion of a course from an FAA-certificated pilot school.
- A certificate of graduation or a statement of accomplishment certifying the satisfactory completion of the ground school portion of a course from an agency such as a high school, college, adult education program, U.S. Armed Force, ROTC Flight Training School, or Civil Air Patrol.
- A written statement or logbook endorsement from an authorized instructor certifying that you have accomplished a ground training or home study course required for the rating sought and you are prepared for the knowledge test.

- Failed Airman Knowledge Test Report, passing Airman Knowledge Test Report, or expired Airman Knowledge Test Report (pass or fail), provided that you still have the original Airman Knowledge Test Report in your possession

Before you take the actual test, you will have the option to take a sample test. The actual test is time limited; however, you should have sufficient time to complete and review your test.

Upon completion of the knowledge test, you will receive your Airman Knowledge Test Report, with the testing center's embossed seal, which reflects your score.

The Airman Knowledge Test Report lists the learning statement codes for questions answered incorrectly. The total number of learning statement codes shown on the Airman Knowledge Test Report is not necessarily an indication of the total number of questions answered incorrectly.

The Learning Statement Reference Guide contains the listings of reference materials, learning statement codes, and learning statements. The learning statement codes, as used in airman testing, refer to a measurable statement of knowledge that a student should be able to demonstrate following a defined element of training. You should match the codes on your Airman Knowledge Test Report to the codes in the Learning Statement Reference Guide to review your areas of deficiency.

The listings of reference materials have been prepared by the FAA to establish references for all knowledge standards. The listings contain reference materials to be used when preparing for all airman knowledge tests.

The Learning Statement Reference Guide for Airman Knowledge Testing can be found at www.faa.gov, Education & Research tab, Airmen Testing, More Testing Information.

Your instructor is required to provide instruction on each of the knowledge areas listed on your Airman Knowledge Test Report and to complete an endorsement of this instruction. The Airman Knowledge Test Report must be presented to the examiner prior to taking the practical test. During the oral portion of the practical test, the examiner is required to evaluate the noted areas of deficiency.

Should you require a duplicate Airman Knowledge Test Report due to loss or destruction of the original, send a signed request accompanied by a check or money order for \$1.00, payable to the FAA. Send the request to the Federal Aviation Administration, Airman Certification Branch, AFS-760, P.O. Box 25082, Oklahoma City, OK 73125.

VALIDITY OF AIRMAN KNOWLEDGE TEST REPORTS

Airman Knowledge Test Reports are valid for the 24-calendar month period preceding the month you complete the practical test. If the Airman Knowledge Test Report expires before completion of the practical test, you must retake the knowledge test.

USE OF TEST AIDS AND MATERIALS

You may use aids, reference materials, and test materials within the guidelines listed below, if actual test questions or answers are not revealed. All models of aviation-oriented calculators may be used, including small electronic calculators that perform only arithmetic functions (add,

subtract, multiply, and divide). Simple programmable memories, which allow addition to, subtraction from, or retrieval of one number from the memory, are permissible. Also, simple functions, such as square root and percent keys are permissible.

The following guidelines apply.

1. You may use any reference materials provided with the test. In addition, you may use scales, straightedges, protractors, plotters, navigation computers, log sheets, and electronic or mechanical calculators that are directly related to the test.
2. Manufacturers' permanently inscribed instructions on the front and back of such aids, e.g., formulas, conversions, regulations, signals, weather data, frequencies, weight and balance formulas.
3. Testing centers may provide a calculator to you and/or deny use of your personal calculator based on the following limitations.
 - a. Prior to, and upon completion of the test, while in the presence of the proctor, you must actuate the ON/OFF switch and perform any other function that ensures erasure of any data stored in memory circuits.
 - b. The use of electronic calculators incorporating permanent or continuous type memory circuits without erasure capability is prohibited. The proctor may refuse the use of your calculator when unable to determine the calculator's erasure capability.
 - c. Printouts of data must be surrendered at the completion of the test if the calculator incorporates this design feature.
 - d. The use of magnetic cards, magnetic tapes, modules, computer chips, or any other device upon which pre-written programs or information related to the test can be stored and retrieved is prohibited.
 - e. You are not permitted to use any booklet or manual containing instructions related to use of test aids.
4. Dictionaries are not allowed in the testing area.
5. The proctor makes the final determination relating to test materials and personal possessions you may take into the testing area.

DYSLEXIC TESTING PROCEDURES

If you are a dyslexic applicant, you may request approval from the local Flight Standards District Office (FSDO) or International Field Office (IFO) to take an airman knowledge test using one of the three options listed in preferential order:

1. **Option one.** Use current testing facilities and procedures whenever possible.
2. **Option two.** You may use a Franklin Speaking Wordmaster® to facilitate the testing process. The Wordmaster® is a self-contained electronic thesaurus that audibly pronounces typed in words and presents them on a display screen. It has a built-in headphone jack for private listening. The headphone feature must be used during testing to avoid disturbing others.
3. **Option three.** If you do not choose to use the first or second option, you may request a proctor to assist in reading specific words or terms from the test questions and supplement material. In the interest of preventing compromise of the testing process, the proctor must be someone who is non-aviation oriented. The proctor must provide reading assistance only, with no explanation of words or terms. When

this option is requested, the FSDO or IFO inspector must contact the Airman Testing Standards Branch (AFS-630) for assistance in selecting the test site and proctor.

Prior to approval of any option, the FSDO or IFO inspector must advise you of the regulatory certification requirement of being able to read, write, speak, and understand the English language.

CHEATING OR OTHER UNAUTHORIZED CONDUCT

Computer testing centers must follow strict security procedures to avoid test compromise. These procedures are established by the FAA and are covered in FAA Order 8080.6, (as amended) Conduct of Airman Knowledge Tests. The FAA has directed testing centers to terminate a test at any time a test proctor suspects a cheating incident has occurred. An FAA investigation will then be conducted. If the investigation determines that cheating or unauthorized conduct has occurred, then any airman certificate or rating that you hold may be revoked, and you will be prohibited for 1 year from applying for or taking any test for a certificate or rating under 14 CFR part 61.

RETESTING PROCEDURES

If you receive a grade lower than 70 percent and wish to retest, you must present the following to testing center personnel.

- Failed Airman Knowledge Test Report.
- A written endorsement from an authorized instructor certifying that additional instruction has been given, and the instructor finds you competent to pass the test.

If you decide to retake the test in anticipation of a better score, you may retake the test after 30 days from the date your last test was taken. The FAA will not allow you to retake a passed test before the 30-day period has lapsed. Prior to retesting, you must give your current Airman Knowledge Test Report to the test proctor. The last test taken will reflect the official score.

OBTAINING TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

Current Flight Standards Service airman training and testing publications can be obtained in electronic format at www.faa.gov.

You will find the following links available on AFS-630's portion of the web site.

- Advisory Circulars
- Airman Knowledge Test Questions
- Practical Test Standards
- Test Statistics
- Training Handbooks
- Learning Statement Reference Guide

Advisory Circulars

The advisory circulars provide guidance and information on various subjects related to airman certification.

Airman Knowledge Test Items

The airman knowledge test items contain the airman knowledge question banks representative of questions for airman knowledge tests and the corresponding learning statement.

The sample questions that are published on the web site are organized by content category and represent the types of questions included in the actual test banks. Practicing these questions will help you become familiar with similar questions on the airman knowledge tests. The knowledge test is not designed to intimidate any prospective airman; it is designed to measure their understanding of the rules and regulations required to receive an FAA certificate.

The policy regarding public access to test questions is to continue publishing questions that affect special emphasis areas regarding safety, such as aeronautical decision-making, airspace, aircraft performance, operations/airworthiness regulations, weather services and reports, etc. However, we do not publish all test questions. Many questions in the test banks are parallel in content area or format and publishing same types of questions would not help the applicant in determining areas to study. Examples would include questions involving a process or calculation, such as weight and balance or performance questions using the same chart. Our intent in not publishing every question in the airman test bank is to respond to the public demand for proper evaluation of prospective airmen. It is our duty to respond to these issues and provide valid and reliable tests to make certain that qualified applicants meet the FAA airman knowledge testing standards.

Airman Knowledge Testing Sites

The Airman Testing portion of the website www.faa.gov contains a current listing of computer testing designees and computer testing centers, and the registration telephone numbers required when registering for a test.

The following is a list of the computer testing designees authorized to give FAA airman knowledge tests. This list should be helpful in case you choose to register for a test or simply want more information. This information is current as of May 2007.

Computer Assisted Testing Service (CATS)

1801 Murchison Drive, Suite 288
Burlingame, CA 94010

Applicant inquiry and test registration: (800) 947-4228

From outside the U.S.: (650) 259-8550

LaserGrade Computer Testing

16821 S.E. McGillivray, Suite 201
Vancouver, WA 98683

Applicant inquiry and test registration: (800) 211-2753

From outside the U.S.: (360) 896-9111

Airman Knowledge Testing Supplements

The airman knowledge testing supplements contain the graphics, legends, and maps that are needed to successfully respond to certain knowledge test items.

Knowledge Test Guides

The knowledge test guides describe the knowledge testing policy and procedures for each certification area.

Other Computer Testing Information

Other computer testing information provides specific test information, such as test name, test code (three-digit test identifiers), number of questions, and the time (in hours) allotted for each knowledge test. The test identifiers will assist you in selecting the proper test for the specific certification or rating being sought.

Practical Test Standards

The practical test standards outline the knowledge and skill requirements for each airman certificate and rating. The references listed in each task of the practical test standards indicate the specific publications used to develop the skill standards. The ability to issue immediate changes prior to publishing revised printed copies ensures the practical test standards are always accurate and usable.

Test Statistics

Test statistics for all airman knowledge tests are contained in a series of tables organized by year and subject area. Individual tables are provided for the following subject areas: test volume, pass rates, average test scores, countries, regions, and district offices.

Training Handbooks

The training handbooks are the basic information sources an airman applicant should refer to when preparing for the knowledge and practical tests for a specific certificate or rating.