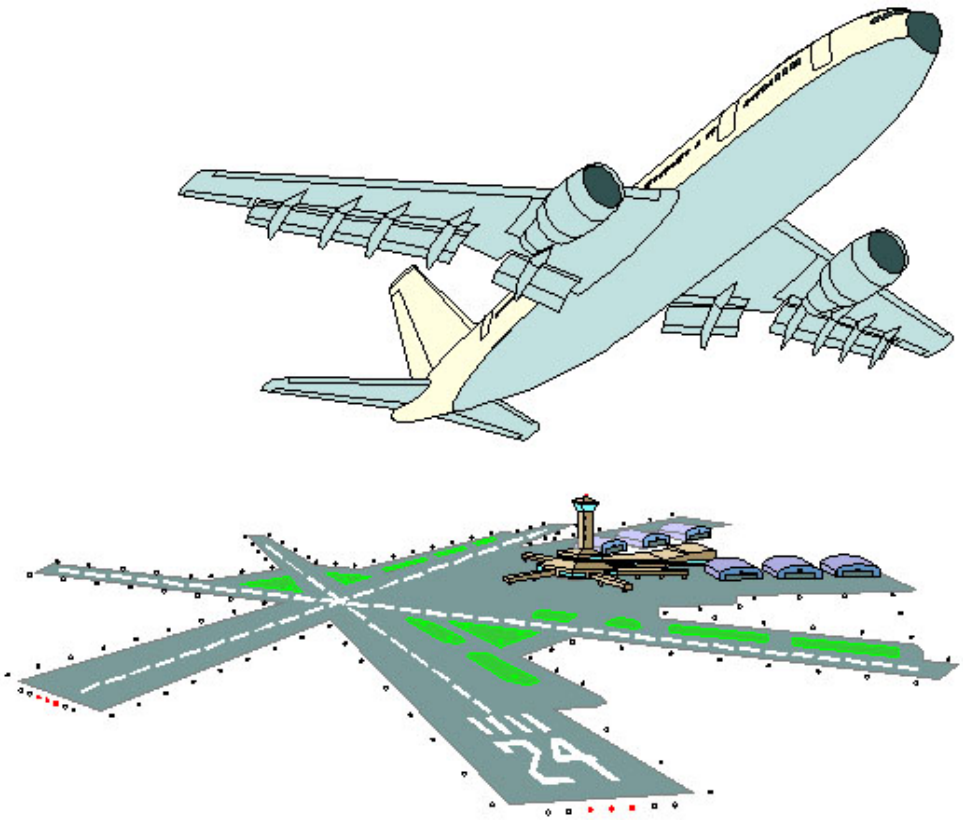
FAA-G-8082-5F

COMMERCIAL PILOT

KNOWLEDGE TEST GUIDE



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U.S. Department of Transportation
Federal Aviation Administration

INTRODUCTION

FAA-G-8082-5F, Commercial Pilot Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes FAA-G-8082-5E, dated February 2012.

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 compliance 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, Section 61.23, Medical Certificates: Requirement and Duration; 14 CFR part 61, Section 61.35, Knowledge Test: Prerequisites and Passing Grades.

For a summary of knowledge test eligibility requirements for all certification areas listed above, refer to the FAA Airman Knowledge Testing Authorization Matrix located at:

http://www.faa.gov/training_testing/testing/airmen/media/testing_matrix.pdf

KNOWLEDGE AREAS ON THE TESTS

The knowledge tests are designed to 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 instructing.

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.**

Each of the following tests contains 100 questions, and you are allowed 3 hours to complete each test:

- Commercial Pilot—Airplane
- Commercial Pilot—Helicopter
- Commercial Pilot—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 hour and 30 minutes to complete the test:

- Commercial Pilot—Balloon—Gas

Each of the following tests contains 50 questions, and you are allowed 2 hours to complete each test:

- Military Competency—Airplane
- Military Competency—Helicopter

TEST REGISTRATION

The FAA has designated two Airman Knowledge Testing (AKT) Organization Designation Authorization (ODA) Holders, which sponsor hundreds of knowledge testing center locations. These testing centers offer a full range of airman knowledge tests including: Aircraft Dispatcher, Airline Transport Pilot, Aviation Maintenance Technician, Commercial Pilot, Flight Engineer, Flight Instructor, Flight Navigator, Ground Instructor, Inspection Authorization, Instrument Rating, Parachute Rigger, Private Pilot, Recreational Pilot, Sport Pilot and Military Competence. Contact information for the AKT ODA Holders is provided below under Knowledge Test Centers.

The first step in taking a knowledge test is the registration process. You may either call a central registration phone number or appear at a testing center on a walk-in basis. If you choose to use a central registration phone number to schedule your test, you will need to be prepared to select a test date, choose a testing center, 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 AKT ODA Holder's cancellation policy. If you do not follow the AKT ODA Holder's cancellation policies, you could be subject to a cancellation fee.

APPLICANT IDENTIFICATION AND TEST AUTHORIZATION

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 FAA Flight Standards District Office (FSDO) may advise you regarding the documentation required to be presented at the testing facility. Testing center personnel will not begin the test until your identification and eligibility is verified.

Acceptable forms of authorization and retesting procedures are available in the latest version of the Applicant Identification, Information, Verification, & Authorization Requirements Matrix located at: http://www.faa.gov/training_testing/testing/airmen/media/testing_matrix.pdf

TEST TAKING TIPS

Prior to launching the actual test, the AKT ODA Holder's testing software will provide you with an opportunity to practice navigating through the test. This practice (or tutorial) session may include a "sample" question(s). These sample questions have no relation to the content of the test, but are meant to familiarize you with the look and feel of the system screens, including selecting an answer, marking a question for later review, time remaining for the test, and other features of the testing software.

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

- Carefully read the instructions given with the test.
- Answer each question in accordance with the latest regulations and guidance publications.
- Read each question carefully before looking at the answer options. You should clearly understand the problem before attempting to solve it.
- After formulating an answer, determine which answer option corresponds with your answer. The answer you choose should completely resolve the problem.
- From the answer options 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 derived from popular 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 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 that most nearly matches your solution. The problem has been checked by various individuals and with different 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.

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. Manufacturer's permanently inscribed instructions on the front and back of such aids (e.g., formulas, conversions, regulations, signals, weather data, frequencies, weight-and-balance formulas) are permissible.
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 Unit Member (formerly

b. The use of electronic calculators incorporating permanent or continuous type memory circuits without erasure capability is prohibited. The Unit Member 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 Unit Member makes the final determination relating to test materials and personal possessions you may take into the testing area.

TESTING PROCEDURES FOR APPLICANTS REQUESTING SPECIAL ACCOMMODATIONS

If you are an applicant with a learning or reading disability, you may request approval from AFS-630, through the local FSDO or IFO, to take an airman knowledge test using one of the three options listed below, in preferential order:

Option 1. Use current testing facilities and procedures whenever possible.

Option 2. You may use a self-contained, electronic device which pronounces and displays typed-in words (e.g., the Franklin Speaking Wordmaster®) to facilitate the testing process. (NOTE: The device should consist of an electronic thesaurus that audibly pronounces typed-in words and presents them on a display screen. The device should also have a built-in headphone jack for private listening in order to avoid disturbing others during testing.)

Option 3. If you do not choose to use the first or second option, you may request Unit Member assistance in reading specific words or terms from the test questions and/or supplement book. In the interest of preventing compromise of the testing process, the Unit Member must be an individual with no aviation background or expertise. The Unit Member 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 assisting Unit Member.

Prior to approval of any option, the FSDO or IFO Aviation Safety 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 Unit Member 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 may be prohibited for 1 year from applying for or taking any test for a certificate or rating under 14 CFR part 61.

LEARNING STATEMENTS

Learning statements, as used in airman knowledge testing, refer to a measurable level of knowledge a student should be able to demonstrate following a defined element of training. The most current Learning Statement Reference Guide for Airman Knowledge Testing is online at:

www.faa.gov/training_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf

We provide learning statements to help instructors and students become more familiar with the areas of knowledge applicable to the airman training, learning, studying, and testing processes.

Beyond serving as a useful reference in preparing for your airman knowledge test, the Learning Statement Reference Guide will assist you and your instructor in interpreting any learning statement codes that may appear on your Airman Knowledge Test Report. You will receive a test report immediately upon completion of the test. This report will list learning statement codes for any questions you may have answered incorrectly. You and your instructor should match the codes on the test report to the information in the Learning Statement Reference Guide in order to obtain the corresponding areas of knowledge deficiency.

Your instructor may be required to provide instruction on each of the areas of deficiency, and to provide a logbook or training record endorsement certifying you have demonstrated satisfactory knowledge in each area. Also, you must present the *original* Airman Knowledge Test Report to the examiner conducting your practical test. During the practical test, the examiner will refer to the learning codes and statements to evaluate your knowledge in the noted areas of deficiency.

AIRMAN KNOWLEDGE TEST REPORTS

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

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:

Federal Aviation Administration
Airmen Certification Branch, AFS-760
P.O. Box 25082
Oklahoma City, OK 73125

Airman Knowledge Test Reports are valid for the 24-calendar month period following 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.**

TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

Most of the current Flight Standards Service airman training and testing publications can be obtained in electronic format from the FAA Website, www.faa.gov. The training and testing publications and general information can be found on the opening page of that Website under the Training and Testing tab. If a publication is not available in electronic format, there are instructions for obtaining paper copies. Information found on the Website includes the following:

- Advisory Circulars
- Airworthiness Directives
- Code of Federal Regulations
- Computer Testing Supplements
- Knowledge Test Centers
- Sample Knowledge Test questions
- Knowledge Test Statistics
- Learning Statement Reference Guide
- Practical Test Standards
- Training Handbooks
- Type Certificate Data Sheets

Advisory Circulars

Advisory circulars (ACs) provide guidance and information on various subjects related to airman certification.

Airworthiness Directives

Airworthiness Directives (ADs) are notifications to aircraft owners of a known safety deficiency with a specific model of aircraft, engine, avionics, or other system.

Code of Federal Regulations

The portion of 14 CFR containing what was formerly known as the Federal Aviation Regulations can be found on the Website. 14 CFR contains regulations designed to promote aviation safety, and govern all aviation activities in the United States.

Computer Testing Supplements

The knowledge testing supplements contain the graphics, legends, and maps that are needed to successfully respond to certain knowledge test items. ODA test center personnel will provide these supplements during the airman knowledge test. You can review them prior to testing at: http://www.faa.gov/training_testing/testing/airmen/test_questions/#cts

Knowledge Test Centers

The Knowledge Test Centers portion of the Website contains current listings of Airman Knowledge Testing (AKT) Organization Designation Authorization (ODA) Holders and other testing centers, and the registration telephone numbers to call to register for a test.

The following is a list of the ODA holders 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.

- **Computer Assisted Testing Service (CATS)**
  777 Mariners Island Blvd., Suite 200
  San Mateo, CA 94404
  Applicant inquiry and test registration: 1-800-947-4228

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

- **PSI**
  16821 SE McGillivray Blvd., Suite 201
  Vancouver, WA 98683
  Applicant inquiry and test registration: 1-800-211-2753 or 1-800-211-2754
  From outside the U.S. (360) 896-9111

Knowledge Test Questions

Sample questions are located in the Airman Knowledge Test Questions section of the Website 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 an applicant's understanding of the rules, regulations and knowledge areas required to receive an FAA certificate.

Knowledge 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.

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.

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.

Classification Code: the (usually hierarchical) sequence of classification codes that places a question in a unique category. FAA knowledge test question development uses the following hierarchy:

- Topic— Overall subject matter topic code. The highest classification of overall subject matter a knowledge test item was developed to assess (e.g., Aerodynamics).
- Content—Secondary level subject matter code (e.g., Airspeed).
- Specific— the basic hierarchical classification code the subject matter for a knowledge test item (e.g., Thrust).

Commercial Pilot—Airplane (CAX)
Sample Questions

COMMERCIAL PILOT—AIRPLANE (CAX)

1. Load factor is the lift generated by the wings of an aircraft at any given time,

A—divided by the total weight of the aircraft.
B—multiplied by the total weight of the aircraft.
C—divided by the basic empty weight of the aircraft.

Answer: B.
Learning Statement: Recall load factor—characteristics.

2. Recovery from a stall in any airplane becomes more difficult when its

A—center of gravity moves forward.
B—elevator trim is adjusted nose down.
C—center of gravity moves aft.

Answer: C.
Learning Statement: Recall forces acting on an aircraft—CG/flight characteristics.

3. Which is true regarding the use of airborne weather-avoidance radar for the recognition of certain weather conditions?

A—The radarscope provides no assurance of avoiding instrument weather conditions.
B—The avoidance of hail is assured when flying between and just clear of the most intense echoes.
C—The clear area between intense echoes indicates that visual sighting of storms can be maintained when flying between the echoes.

Answer: A.
Learning Statement: Recall airborne radar/thunderstorm detection equipment—use/limitations.

4. During pre-flight in cold weather, crankcase breather lines should receive special attention because they are susceptible to being clogged by

A—congealed oil from the crankcase.
B—moisture from the outside air which has frozen.
C—ice from crankcase vapors that have condensed and subsequently frozen.

Answer: C.
Learning Statement: Recall aircraft systems—anti-icing/deicing.

5. 14 CFR part 1 defines VY as

A—speed for best rate of descent.
B—speed for best angle of climb.
C—speed for best rate of climb.

Answer: C.
Learning Statement: Recall regulations—definitions.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—AIRPLANE KNOWLEDGE TEST (CAX)

Topic	*Content*	*Specific*
PLT002		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Stall Speed
PLT004		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Fuel Used
Aircraft Performance	Charts	Rate of Climb vs PA and Temp
PLT008		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Landing Distance
PLT011		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Ground Roll
Aircraft Performance	Charts	Takeoff Distance
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Fuel Used
Aircraft Performance	Computations	Flight Time
Aircraft Performance	Computations	Fuel
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT013		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Wind Components
PLT014		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	ADF/NDB
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT015		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	L/D Ratio
Aircraft Performance	Charts	Endurance
Aircraft Performance	Charts	L/D vs Gliding Distance and Altitude Lost
Aircraft Performance	Charts	Maximum Range
Aircraft Performance	Computations	Fuel
PLT017		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Angle of Attack
PLT018		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor	Flight Envelope
Aerodynamics	Load Factor	Variation
Aircraft Performance	Charts	Stall Speed vs Angle of Bank
PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Shifting Weight
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Definitions
Weight and Balance	Center of Gravity	Shifting Weight
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weight and Balance	Center of Gravity	Computations
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Process
Human Factors	ADM	Risk Management

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Human Factors	ADM	Attitude Management

PLT032

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aerodynamics	Airspeed	High

PLT040

Sectional Aeronautical Chart

Airspace	Cloud Clearances / Visibility	Class G
Airspace	Controlled	Class E
Airspace	Special Use	Alert Areas

PLT041

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Performance	Charts	L/D vs Gliding Distance and Altitude Lost

PLT056

Instrument Flying Handbook, FAA-H-8083-15

Navigation	Radio	Bearing / Radial Intercepts

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Navigation	Radio	Bearing / Radial Intercepts

PLT059

Aeronautical Information Manual

Weather	Aeronautical Weather Reports	METAR

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds

PLT061

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Aeronautical Weather Reports	PIREP

PLT064

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Navigation	Pilotage	Charts

Sectional Aeronautical Chart

Airspace	Controlled	Class D
Navigation	Pilotage	Charts

PLT068

AC 00-45 Aviation Weather Services

Weather	Charts / Maps	High-Level Significant Weather Prog
Weather	Charts / Maps	Low-Level Significant Weather Prog

PLT072

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)

PLT074

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aerodynamics	Load Factor	Flight Envelope

PLT088

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Flight Instruments	Airspeed Indicator

PLT090

Aeronautical Information Manual

Navigation	Radio	VOR

Instrument Flying Handbook, FAA-H-8083-15

Navigation	Radio	Bearing / Radial Intercepts

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
Navigation	Radio	VOR

PLT091

Instrument Flying Handbook, FAA-H-8083-15

Navigation	Radio	Bearing / Radial Intercepts

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Navigation	Radio	ADF/NDB
Navigation	Radio	Bearing / Radial Intercepts

PLT096

Aeronautical Information Manual

Human Factors	Aeromedical	Hypoxia

PLT101
Sectional Aeronautical Chart
Navigation | Pilotage | Charts

PLT103
AC 60-22 Aeronautical Decision Making
Human Factors | ADM | Attitude Management
Human Factors | ADM | Judgment

PLT104
AC 60-22 Aeronautical Decision Making
Human Factors | ADM | Judgment
Human Factors | ADM | Process
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | ADM | Judgment

PLT105
AC 00-6 Aviation Weather
Aircraft Systems | Avionics | Radar

PLT113
14 CFR 23
Aircraft Performance | Limitations | Utility Category
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Performance | Limitations | Airspeeds

PLT115
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Combustion

PLT118
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Instruments | Turn Indicators

PLT119
14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT120
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Performance | Atmospheric Effects | Turbulence
Weather | Hazardous | Turbulence

PLT123
14 CFR 91
Regulations | 14CFR Part 91 | Aircraft Speed
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Airspeed | High
Aircraft Systems | Pitot / Static | Airspeed Indicator

PLT126
AC 91-13 Cold Weather Operation of Aircraft
Aircraft Systems | Landing Gear | Cold Weather Operation

PLT127
Aeronautical Information Manual
Aircraft Performance | Density Altitude | Effects

PLT129
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Performance | Charts | Takeoff Distance

PLT131
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Ground Effect

PLT132
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Airspeed | High
Aerodynamics | Load Factor | Flight Envelope

PLT136
AC 91-13 Cold Weather Operation of Aircraft
Aircraft Systems | Fuel / Oil | Crankcase Breather lines

PLT140
Aeronautical Information Manual
Airport Operations | LAHSO | Responsibilities

PLT141

Aeronautical Information Manual

Airport Operations	Marking / Signs	Runway Incursions
Airport Operations	Marking / Signs	Taxiway

Airplane Flying Handbook, FAA-H-8083-3A

Flight Operations	Night	Planning

PLT161

14 CFR 91

Airport Operations	Traffic Patterns	Standard Procedure
Airspace	Controlled	Class B
Regulations	14CFR Part 91	Aircraft Speed
Regulations	14CFR Part 91	ATC Transponder / Altitude Reporting Equipment
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Visual Flight Rules

PLT162

14 CFR 91

Airspace	Controlled	Class B
Airspace	Controlled	Class C

PLT163

14 CFR 91

Regulations	14CFR Part 91	Visual Flight Rules

PLT164

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aerodynamics	Principles of Flight	Forces Acting on Aircraft

PLT166

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Flight Instruments	Altimeter

PLT168

Airplane Flying Handbook, FAA-H-8083-3A

Aerodynamics	Principles of Flight	Angle of Attack

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aerodynamics	Airspeed	Angle of Attack
Aerodynamics	Principles of Flight	Angle of Attack
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Ground Effect
Aerodynamics	Principles of Flight	Thrust

PLT170

Airplane Flying Handbook, FAA-H-8083-3A

Flight Operations	Landing	Touchdown

PLT173

AC 00-6 Aviation Weather

Weather	Meteorology	Stability

PLT187

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Flight Instruments	Gyroscopic
Aircraft Systems	Flight Instruments	Turn Indicators

PLT189

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Carburetor Heat

PLT192

AC 00-6 Aviation Weather

Weather	Meteorology	Clouds
Weather	Meteorology	Moisture
Weather	Meteorology	Stability

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Meteorology	Stability

PLT194

Aeronautical Information Manual

Flight Operations	Collision Avoidance	Vision in Flight

Airplane Flying Handbook, FAA-H-8083-3A

Flight Operations	Collision Avoidance	Night Lighting

PLT197
AC 00-6 Aviation Weather
Weather | Meteorology | Circulation
Weather | Meteorology | Wind
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Circulation

PLT203
AC 00-6 Aviation Weather
Weather | Meteorology | High Altitude

PLT206
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature / Pressure

PLT208
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Emergency Procedures | Approach / Landing
Flight Operations | Emergency Procedures | Night
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations | Emergency Procedures | Flight Diversion
Flight Operations | Emergency Procedures | Lost Procedures

PLT213
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Stability / Control | Longitudinal
Aerodynamics | Stability / Control | Negative Dynamic

PLT215
Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | Bearing / Radial Intercepts
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Instruments | Compass

PLT219
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Maneuvers | Basic

PLT220
14 CFR 61
Regulations | 14CFR Part 61 | Night

PLT222
Airplane Flying Handbook, FAA-H-8083-3A
Aircraft Systems | Propeller | Adjustable-Pitch

PLT224
Aeronautical Information Manual
Instrument Procedures | Flight Planning | Flight Plan

PLT225
14 CFR 91
Regulations | 14CFR Part 91 | Preflight Action

PLT226
AC 00-6 Aviation Weather
Weather | Meteorology | Fog
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Aerodynamics	Principles of Flight	Turn Rate / Radius

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Airplane Flying Handbook, FAA-H-8083-3A

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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Stability / Control | Neutral Static

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Airplane Flying Handbook, FAA-H-8083-3A
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AC 00-6 Aviation Weather
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AC 00-6 Aviation Weather

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Airplane Flying Handbook, FAA-H-8083-3A

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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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Weather	Aeronautical Weather Reports	TIBS

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Weather	Aeronautical Weather Reports	Enroute Flight Advisory Service (EFAS)

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AC 00-6 Aviation Weather

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AC 00-30 Atmospheric Turbulence Avoidance

Weather	Meteorology	High Altitude

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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Hazardous	Windshear

Commercial Pilot—Rotorcraft/Helicopter (CRH)
Sample Questions

COMMERCIAL PILOT—ROTORCRAFT/HELICOPTER (CRH)

1. 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.

Answer: B.
Learning Statement: Recall altimeter—settings/setting procedures.

2. Rotorcraft climb performance is most adversely affected by

A—higher than standard temperature and low-relative humidity.
B—lower than standard temperature and high-relative humidity.
C—higher than standard temperature and high-relative humidity.

Answer: C.
Learning Statement: Recall aircraft performance—density altitude.

3. When approaching to land at an airport, without an operating control tower, in Class G airspace, a helicopter pilot should

A—enter and fly a traffic pattern at 800 feet AGL.
B—make all turns to the left, unless otherwise indicated.
C—avoid the flow of fixed-wing aircraft.

Answer: C.
Learning Statement: Recall regulations—operational procedures for an uncontrolled airport.

4. What is the procedure for a slope landing?

A—Use maximum RPM and maximum manifold pressure.
B—If the slope is 10° or less, the landing should be made perpendicular to the slope.
C—When parallel to the slope, slowly lower the upslope skid to the ground prior to lowering the down slope skid.

Answer: B.
Learning Statement: Recall aircraft performance—effects of runway slope/slope landing.

5. Ground resonance is less likely to occur with helicopters that are not equipped with

A—rigid rotor systems.
B—fully articulated rotor systems.
C—semi-rigid rotor systems.

Answer B.
Learning Statement: Recall ground resonance—conditions to occur.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—ROTORCRAFT/HELICOPTER KNOWLEDGE TEST (CRH)

Topic	*Content*	*Specific*
PLT004		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Rate of Climb vs PA and Temp
PLT011		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Hover In / Out of Ground Effect
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT014		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	ADF/NDB
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PLT018		
Rotorcraft Flying Handbook, FAA-H-8083-21		
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PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Shifting Weight
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Definitions
Rotorcraft Flying Handbook, FAA-H-8083-21		
Weight and Balance	Center of Gravity	Computations
PLT027		
Rotorcraft Flying Handbook, FAA-H-8083-21		
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PLT037		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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Aeronautical Information Manual		
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PLT090

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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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Navigation	Radio	VOR

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Instrument Flying Handbook, FAA-H-8083-15

Navigation	Radio	Bearing / Radial Intercepts

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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Navigation	Radio	Bearing / Radial Intercepts

PLT096

Aeronautical Information Manual

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PLT101

Sectional Aeronautical Chart

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PLT112

Practical Test Standards

Flight Operations	Climb	Helicopter

Rotorcraft Flying Handbook, FAA-H-8083-21

Aircraft Systems	Flight Controls / Primary	Helicopter
Flight Operations	Maneuvers	Helicopter

PLT113

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Performance	Limitations	Airspeeds

Rotorcraft Flying Handbook, FAA-H-8083-21

Flight Operations	Maneuvers	Helicopter

PLT115

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Combustion

PLT118

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Flight Instruments	Turn Indicators

PLT127

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Turbine

Rotorcraft Flying Handbook, FAA-H-8083-21

Aerodynamics	Performance	Atmospheric Effects
Aircraft Performance	Atmospheric Effects	Temperature / Relative Humidity
Aircraft Performance	Density Altitude	Effects

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Rotorcraft Flying Handbook, FAA-H-8083-21

Flight Operations	Landing	Helicopter

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PLT169
Rotorcraft Flying Handbook, FAA-H-8083-21
Flight Operations | Emergency Procedures | Helicopter

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Instrument Procedures | Approach Procedures | Landing Minima

Rotorcraft Flying Handbook, FAA-H-8083-21
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
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Weather | Meteorology | Moisture

PLT194
AC 90-48 Pilots` Role in Collision Avoidance
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PLT197
AC 00-6 Aviation Weather
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
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PLT206
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations | Emergency Procedures | Flight Diversion

Rotorcraft Flying Handbook, FAA-H-8083-21
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
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PLT235
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PLT242
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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PLT259
Rotorcraft Flying Handbook, FAA-H-8083-21

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Practical Test Standards

Flight Operations	Emergency Procedures	Helicopter

Rotorcraft Flying Handbook, FAA-H-8083-21

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Rotorcraft Flying Handbook, FAA-H-8083-21

Aerodynamics	Performance	Helicopter
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

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Rotorcraft Flying Handbook, FAA-H-8083-21
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PLT336
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Flight Operations | Landing | Helicopter

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PLT343
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Rotorcraft Flying Handbook, FAA-H-8083-21
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Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Flight Operations	Emergency Procedures	Helicopter

Rotorcraft Flying Handbook, FAA-H-8083-21

Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Helicopter Rotor
Aircraft Systems	Flight Controls / Primary	Anti-torque Pedals
Aircraft Systems	Rotor	Full Articulated
Aircraft Systems	Rotor	Semi-rigid
Flight Operations	Emergency Procedures	Helicopter

PLT471

Rotorcraft Flying Handbook, FAA-H-8083-21

Aircraft Systems	Transmission	Clutch
Aircraft Systems	Transmission	Freewheeling Unit

PLT472

Rotorcraft Flying Handbook, FAA-H-8083-21

Aircraft Systems	Flight Controls / Primary	Vibrations
Aircraft Systems	Rotor	Main Rotor
Aircraft Systems	Rotor	Vibrations
Aircraft Systems	Transmission	Emergencies

PLT475

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT478

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Ignition System

PLT486

Rotorcraft Flying Handbook, FAA-H-8083-21

Flight Operations	Takeoff	Helicopter

PLT492

AC 00-6 Aviation Weather

Weather	Meteorology	Stability
Weather	Meteorology	Temperature
Weather	Meteorology	Temperature / Pressure

PLT495

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

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PLT501

AC 00-6 Aviation Weather

Weather	Hazardous	Turbulence

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Aeronautical Information Manual

Navigation	Radio	VOR

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Navigation	Radio	VOR

PLT508

14 CFR 91

Navigation	Radio	VOR
Regulations	14CFR Part 91	Preflight Action

PLT510

AC 00-6 Aviation Weather

Weather	Meteorology	Wind

PLT511

AC 00-6 Aviation Weather

Weather	Meteorology	Air Masses
Weather	Meteorology	Fronts
Weather	Meteorology	Moisture
Weather	Meteorology	Stability

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Meteorology	Circulation

PLT515

AC 00-45 Aviation Weather Services

Weather	Aeronautical Weather Forecasts	Weather Forecast Offices (WFO)
Weather	Aeronautical Weather Reports	HIWAS

Aeronautical Information Manual

Weather	Aeronautical Weather Reports	TIBS

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Aeronautical Weather Reports	Enroute Flight Advisory Service (EFAS)

PLT516

AC 00-6 Aviation Weather

Weather	Meteorology	Circulation

PLT518

AC 00-6 Aviation Weather

Weather	Hazardous	Windshear

Aeronautical Information Manual

Weather	Hazardous	Windshear

Commercial Pilot—Rotorcraft/Gyroplane (CRG)
Sample Questions

COMMERCIAL PILOT—ROTORCRAFT/GYROPLANE (CRG)

1. Which chart provides a ready means of locating observed frontal positions and pressure centers?

A—Surface Analysis Chart.
B—Constant Pressure Analysis Chart.
C—Weather Depiction Chart.

Answer: A.
Learning Statement: Recall information on a Surface Analysis Chart.

2. During the transition from pre-rotation to flight, all rotor blades change pitch

A—simultaneously to the same angle of incidence.
B—simultaneously but to different angles of incidence.
C—to the same degree at the same point in the cycle of rotation.

Answer: A.
Learning Statement: Recall rotor system—types/components/operating principles/characteristics.

3. Why should gyroplane operations within the crosshatched portion of a Height versus Velocity Chart be avoided?

A—The rotor RPM may build excessively high if it is necessary to flare at such low altitudes.
B—Sufficient airspeed may not be available to ensure a safe landing in case of an engine failure.
C—Turbulence near the surface can de-phase the blade dampers causing geometric unbalanced conditions on the rotor system.

Answer: B.
Learning Statement: Recall aircraft performance—airspeed.

4. A pilot convicted of a motor vehicle offense involving alcohol or drugs is required to provide a written report to the

A—nearest FAA Flight Standards District Office (FSDO) within 60 days after such action.
B—FAA Civil Aero-medical Institute (CAMI) within 60 days after the conviction.
C—FAA Civil Aviation Security Division (AMC-700) within 60 days after such action.

Answer: C.
Learning Statement: Recall regulations—use of narcotics/drugs/intoxicating liquor.

5. Which of these conditions is Hypoxia the result?

A—Excessive oxygen in the bloodstream.
B—Insufficient oxygen reaching the brain.
C—Excessive carbon dioxide in the bloodstream.

Answer: B.
Learning Statement: Recall Aero-medical factors—effects of altitude.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—ROTORCRAFT/GYROPLANE (CRG)

Topic	*Content*	*Specific*
PLT002		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Height / Velocity
PLT011		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Takeoff Distance
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT014		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	ADF/NDB
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Definitions
PLT040		
Sectional Aeronautical Chart		
Airspace	Controlled	Class E
Airspace	Special Use	Alert Areas
PLT059		
Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds
PLT064		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT090		
Aeronautical Information Manual		
Navigation	Radio	VOR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
Navigation	Radio	VOR
PLT091		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	Bearing / Radial Intercepts
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing / Radial Intercepts
PLT101		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT115		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Powerplant	Combustion
PLT123		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Height / Velocity
PLT129		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Takeoff Distance
PLT132		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aerodynamics	Load Factor	Definition

PLT136
AC 91-13 Cold Weather Operation of Aircraft
Aircraft Systems | Fuel / Oil | Crankcase Breather lines

PLT141
Aeronautical Information Manual
Airport Operations | Marking / Signs | Runway Incursions

PLT149
Rotorcraft Flying Handbook, FAA-H-8083-21
Flight Operations | Normal Procedures | Flight Control Positioning

PLT161
14 CFR 91
Airport Operations | Traffic Patterns | Standard Procedure
Airspace | Controlled | Class B

PLT162
14 CFR 91
Airspace | Controlled | Class B
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PLT163
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Regulations | 14CFR Part 91 | Flight Rules
Regulations | 14CFR Part 91 | Visual Flight Rules

PLT168
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT173
AC 00-6 Aviation Weather
Weather | Meteorology | Stability

PLT189
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Carburetor Heat

PLT190
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Carburetor Heat

PLT192
AC 00-6 Aviation Weather
Weather | Meteorology | Clouds
Weather | Meteorology | Moisture

PLT194
AC 90-48 Pilots` Role in Collision Avoidance
Flight Operations | Collision Avoidance | Judging Threats
Aeronautical Information Manual
Flight Operations | Collision Avoidance | High Hazard Areas

PLT197
AC 00-6 Aviation Weather
Weather | Meteorology | Circulation
Weather | Meteorology | Wind
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Circulation

PLT206
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature / Pressure

PLT208
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Emergency Procedures | Approach / Landing
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations | Emergency Procedures | Lost Procedures

PLT215
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Instruments | Compass

PLT219
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Maneuvers | Basic

PLT220
14 CFR 61
Regulations | 14CFR Part 61 | Night

PLT222
Airplane Flying Handbook, FAA-H-8083-3A
Aircraft Systems | Propeller | Adjustable-Pitch

PLT225
14 CFR 91
Regulations | 14CFR Part 91 | Preflight Action

PLT226
AC 00-6 Aviation Weather
Weather | Meteorology | Fog

PLT237
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT242
Rotorcraft Flying Handbook, FAA-H-8083-21
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT249
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Mixture Control

PLT251
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Combustion

PLT253
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Mixture Control

PLT260
Rotorcraft Flying Handbook, FAA-H-8083-21
Aerodynamics | Principles of Flight | Gyroplane Rotor

PLT263
AC 00-6 Aviation Weather
Weather | Meteorology | Fog

PLT265
Rotorcraft Flying Handbook, FAA-H-8083-21
Flight Operations | Emergency Procedures | Ground Emergencies

PLT276
Aeronautical Information Manual
Navigation | Radio | VOR

Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | VOR

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Navigation | Radio | VOR

PLT290
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Weather Advisory Broadcasts

PLT301
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature

PLT309
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Load Factor | Variation

PLT322
Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | Bearing / Radial Intercepts

PLT328
Rotorcraft Flying Handbook, FAA-H-8083-21
Weight and Balance | Aircraft Loading | Definitions

PLT332
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Hyperventilation

PLT343
AC 20-103 Aircraft Engine Crankshaft Failure
Aircraft Systems | Powerplant | Throttle Operation

AC 91-13 Cold Weather Operation of Aircraft
Aircraft Systems | Powerplant | Preheating

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Carburetor Heat

Aircraft Systems | Powerplant | Mixture Control

PLT344
AC 00-6 Aviation Weather
Weather | Meteorology | Fronts

PLT350
Airplane Flying Handbook, FAA-H-8083-3A
Aircraft Systems | Propeller | Adjustable-Pitch
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Propeller | Adjustable-Pitch
Aircraft Systems | Propeller | Fixed-Pitch

PLT351
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Propeller | Principles

PLT365
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Combustion

PLT373
Rotorcraft Flying Handbook, FAA-H-8083-21
Aircraft Performance | Limitations | Gyroplane

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PLT386
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PLT399
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PLT413
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PLT416
49 CFR 830
Regulations | NTSB Part 830 | Notification

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14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT425
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT426
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PLT431
14 CFR 91
Regulations | 14CFR Part 91 | Flight Rules
Regulations | 14CFR Part 91 | General

PLT434
14 CFR 91
Airspace | Controlled | Class E

PLT444
14 CFR 61
Regulations | 14CFR Part 61 | Flight Review
49 CFR 830
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PLT446
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PLT464

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Regulations	14CFR Part 91	Flight Crewmembers at Station

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Regulations	14CFR Part 91	Visual Flight Rules

PLT470

Rotorcraft Flying Handbook, FAA-H-8083-21

Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Gyroplane Rotor
Aerodynamics	Principles of Flight	Helicopter Rotor

PLT475

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT478

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Ignition System

PLT492

AC 00-6 Aviation Weather

Weather	Meteorology	Stability
Weather	Meteorology	Temperature

PLT495

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT497

14 CFR 91

Regulations	14CFR Part 91	ATC Transponder / Altitude Reporting Equipment

PLT508

14 CFR 91

Navigation	Radio	VOR
Regulations	14CFR Part 91	Preflight Action

PLT510

AC 00-6 Aviation Weather

Weather	Meteorology	Wind

PLT511

AC 00-6 Aviation Weather

Weather	Meteorology	Air Masses
Weather	Meteorology	Fronts

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Meteorology	Circulation

PLT515

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25

Weather	Aeronautical Weather Reports	Enroute Flight Advisory Service (EFAS)

PLT516

AC 00-6 Aviation Weather

Weather	Meteorology	Circulation

PLT518

AC 00-6 Aviation Weather

Weather	Hazardous	Windshear

Aeronautical Information Manual

Weather	Hazardous	Windshear

Commercial Pilot—Glider (CGX)
Sample Questions

COMMERCIAL PILOT—GLIDER (CGX)

1. 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.

Answer: A.
Learning Statement: Recall forces acting on aircraft—lift/drag/thrust/weight/stall/limitations.

2. True course measurements on a Sectional Aeronautical Chart should be made at a meridian near the midpoint of the course because the

A—values of isogonic lines change from point to point.
B—angles formed by isogonic lines and lines of latitude vary from point to point.
C—angles formed by lines of longitude and the course line vary from point to point.

Answer: C.
Learning Statement: Interpret information on a Sectional Chart.

3. Moisture is added to air by

A—sublimation and condensation.
B—evaporation and condensation.
C—evaporation and sublimation.

Answer: C.
Learning Statement: Recall weather conditions—temperature/moisture/dew point.

4. The maximum airspeed at which abrupt and full deflection of the controls would not cause structural damage to a glider is called the

A—speed-to-fly.
B—maneuvering speed.
C—never-exceed speed.

Answer: B.
Learning Statement: Recall glider performance—speed/distance/ballast/lift/drag.

5. Which is true concerning the location of the glider's CG and its effect on glider spin characteristics? If the CG is too far

A—aft, a flat spin may develop.
B—forward, spin entry will be impossible.
C—aft, spins will degenerate into CG high-speed spirals.

Answer: A.
Learning Statement: Calculate weight and balance.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—GLIDER (CGX)

Topic	*Content*	*Specific*
PLT003		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Computations
PLT013		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Wind Components
PLT014		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT021		
AC 61-67 Stall Spin Awareness Training		
Aircraft Performance	Limitations	Effects of Exceeding
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Definitions
PLT040		
Sectional Aeronautical Chart		
Airspace	Cloud Clearances / Visibility	Class G
Airspace	Controlled	Class E
PLT059		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Meteorology	Clouds
PLT060		
Glider Flying Handbook, FAA-H-8083-13		
Aircraft Performance	Charts	Distance Traveled vs Sink Rate
Aircraft Performance	Charts	Min Sink Speed / Rate of Sink
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	L/D vs Sinking Speed (Vs)
PLT062		
AC 00-6 Aviation Weather		
Weather	Charts / Maps	Adiabatic Charts
PLT064		
Sectional Aeronautical Chart		
Airspace	Uncontrolled	Class G
Navigation	Pilotage	Charts
PLT074		
Glider Flying Handbook, FAA-H-8083-13		
Aerodynamics	Load Factor	Flight Envelope
PLT090		
Aeronautical Information Manual		
Navigation	Radio	VOR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
Navigation	Radio	VOR
PLT101		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT113		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Limitations	Airspeeds
PLT124		
Glider Flying Handbook, FAA-H-8083-13		
Aircraft Performance	Atmospheric Effects	Wind
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
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PLT163
14 CFR 91
Regulations | 14CFR Part 91 | Visual Flight Rules

PLT164
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Performance | Turn Radius

PLT168
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Angle of Attack

PLT170
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Landing | Glider

PLT173
AC 00-6 Aviation Weather
Weather | Meteorology | Stability

PLT187
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Instruments | Turn Indicators

PLT192
AC 00-6 Aviation Weather
Weather | Meteorology | Clouds
Weather | Meteorology | Moisture
Weather | Meteorology | Stability

PLT197
AC 00-6 Aviation Weather
Weather | Meteorology | Wind
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Circulation

PLT206
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature / Pressure

PLT208
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations | Emergency Procedures | Lost Procedures

PLT215
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Instruments | Compass

PLT216
Glider Flying Handbook, FAA-H-8083-13
Aircraft Systems | Flight Instruments | Variometer

PLT219
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Maneuvers | Basic
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Launch Procedures | Glider

PLT225
14 CFR 91
Regulations | 14CFR Part 91 | Preflight Action

PLT237
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Principles of Flight | Forces Acting on Aircraft
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT238
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT240
Glider Flying Handbook, FAA-H-8083-13
Weight and Balance | Aircraft Loading | Limitations

PLT242
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT244
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Stability / Control | Glider Control Flutter

PLT248
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Principles of Flight | Forces Acting on Aircraft

PLT256
Glider Flying Handbook, FAA-H-8083-13
Aircraft Performance | Charts | Ballast / Weight vs Airspeeds / Performance

PLT257
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Airspeed | Angle of Attack
Aerodynamics | Principles of Flight | Forces Acting on Aircraft
Flight Operations | Soaring Techniques | Speed-to-Fly

PLT261
AC 00-6 Aviation Weather
Weather | Meteorology | Thunderstorms

PLT276
Aeronautical Information Manual
Navigation | Radio | VOR
Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | VOR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Navigation | Radio | VOR

PLT288
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Aerodrome Forecast (TAF)

PLT290
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Weather Advisory Broadcasts

PLT301
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature

PLT303
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Performance | Glider

PLT304
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Launch Procedures | Glider

PLT305
Glider Flying Handbook, FAA-H-8083-13
Aerodynamics | Performance | Glider

PLT309
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Load Factor | Variation

PLT310
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Load Factor | Definition

PLT312
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Load Factor | Stall Speed

PLT326
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Environmental | Oxygen

PLT332
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Hyperventilation

PLT348
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Turn Rate / Radius

PLT366
49 CFR 830
Regulations | NTSB Part 830 | Accident Report
Regulations | NTSB Part 830 | Incident Report

PLT374
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Regulations | 14CFR Part 1 | Definitions
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Regulations | 14CFR Part 91 | Maintenance

PLT377
14 CFR 91
Regulations 14CFR Part 91 Aircraft Certificate Requirements
Regulations 14CFR Part 91 Maintenance

PLT378
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Regulations 14CFR Part 91 Maintenance

PLT386
14 CFR 61
Regulations 14CFR Part 61 Pilot Certificate

PLT387
14 CFR 61
Regulations 14CFR Part 61 Current Address

PLT389
14 CFR 91
Regulations 14CFR Part 91 Special Flight Operations

PLT392
14 CFR 91
Regulations 14CFR Part 91 General

PLT399
14 CFR 61
Regulations 14CFR Part 61 Pilot-in-Command

PLT400
14 CFR 91
Regulations 14CFR Part 91 Preflight Action

PLT401
14 CFR 91
Regulations 14CFR Part 91 General

PLT407
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Regulations 14CFR Part 61 Glider Towing

PLT414
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Regulations 14CFR Part 91 Right-of-Way

PLT425
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT438
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Regulations 14CFR Part 91 Instrument and Equipment Requirements

PLT443
14 CFR 61
Regulations 14CFR Part 61 Pilot Certificate

PLT444
14 CFR 61
Regulations 14CFR Part 61 Flight Review
Regulations 14CFR Part 61 Pilot-in-Command
14 CFR 91
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PLT445
Glider Flying Handbook, FAA-H-8083-13
Airport Operations Preflight Aircraft Assembly

PLT446
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT447
14 CFR 61
Regulations 14CFR Part 61 Medical Certificates

PLT451
14 CFR 61
Regulations 14CFR Part 61 Glider

PLT467
14 CFR 91
Regulations 14CFR Part 91 Visual Flight Rules

PLT473
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Flight Controls / Secondary | Airplane

PLT474
AC 00-6 Aviation Weather
Flight Operations | Soaring Techniques | Ridge Soaring
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Collision Avoidance | Soaring Gliders
Flight Operations | Soaring Techniques | Ballast
Flight Operations | Soaring Techniques | Ridge Soaring
Weather | Meteorology | Waves for Soaring

PLT475
AC 00-6 Aviation Weather
Weather | Meteorology | Thunderstorms

PLT477
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aerodynamics | Principles of Flight | Angle of Attack

PLT492
AC 00-6 Aviation Weather
Weather | Meteorology | Stability
Weather | Meteorology | Temperature

PLT494
AC 00-6 Aviation Weather
Weather | Meteorology | Thermals
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Soaring Techniques | Thermal Soaring

PLT495
AC 00-6 Aviation Weather
Weather | Meteorology | Thunderstorms

PLT496
Glider Flying Handbook, FAA-H-8083-13
Flight Operations | Launch Procedures | Glider

PLT501
AC 00-6 Aviation Weather
Weather | Hazardous | Turbulence
Weather | Hazardous | Wind

PLT507
Aeronautical Information Manual
Navigation | Radio | VOR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Navigation | Radio | VOR

PLT509
Aeronautical Information Manual
Flight Operations | Wake Turbulence | Helicopter Vortices
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations | Wake Turbulence | Vortex Hazards

PLT510
AC 00-6 Aviation Weather
Weather | Meteorology | Circulation

PLT511
AC 00-6 Aviation Weather
Weather | Meteorology | Air Masses
Weather | Meteorology | Fronts
Weather | Meteorology | Stability
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Circulation

PLT515
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Aeronautical Weather Reports | Enroute Flight Advisory Service (EFAS)

PLT516
AC 00-6 Aviation Weather
Weather | Meteorology | Circulation

PLT518
AC 00-6 Aviation Weather
Weather | Hazardous | Windshear

Commercial Pilot—Balloon—Hot Air (CBH)
Sample Questions

COMMERCIAL PILOT—BALLOON—HOT AIR (CBH)

1. Which is true regarding the presence of alcohol within the human body?

A—A small amount of alcohol increases vision acuity.
B—An increase in altitude decreases the adverse effect of alcohol.
C—Judgment and decision-making abilities can be adversely affected by even small amounts of alcohol.

Answer: C.
Learning Statement: Recall use of narcotics/drugs/intoxicating liquor.

2. While in flight, frost begins forming on the outside of the fuel tank in use. This would most likely be caused by

A—water in the fuel.
B—a leak in the fuel line.
C—vaporized fuel instead of liquid fuel being drawn from the tank into the main burner.

Answer: C.
Learning Statement: Recall fuel tank—components/operating principle/characteristics.

3. The purpose of the preheating coil as used in hot air balloons is to

A—prevent ice from forming in the fuel lines.
B—warm the fuel tanks for more efficient fuel flow.
C—vaporize the fuel for more efficient burner operation.

Answer: C.
Learning Statement: Recall fuel system—components/operating principles/characteristics.

4. When landing a balloon, what should the occupant(s) do to minimize landing shock?

A—Be seated on the floor of the basket.
B—Stand back-to-back and hold onto the load ring.
C—Stand with knees slightly bent facing the direction of movement.

Answer: C.
Learning Statement: Recall flight operations—takeoff/landing maneuvers.

5. The purpose of a critique is to

A—identify only the student's faults and weaknesses.
B—give a delayed evaluation of the student's performance.
C—provide direction and guidance to raise the level of the student's performance.

Answer: C.
Learning Statement: Recall student evaluation—learning process.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—BALLOON—HOT AIR KNOWLEDGE TEST (CBH)

Topic	*Content*	*Specific*
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
PLT021		
Balloon Flying Handbook, FAA-H-8083-11		
Weight and Balance	Aircraft Loading	Fuel
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Process
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	ADM	Attitude Management
PLT030		
Balloon Flying Handbook, FAA-H-8083-11		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT040		
14 CFR 91		
Airspace	Controlled	Class C
Sectional Aeronautical Chart		
Airspace	Special Use	Alert Areas
PLT041		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT059		
Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds
PLT061		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	PIREP
PLT064		
Sectional Aeronautical Chart		
Navigation	Dead Reckoning	Wind
Navigation	Pilotage	Charts
PLT072		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT101		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT103		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	ADM	Attitude Management
PLT119		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT130		
Balloon Digest - Balloon Federation of America		
Aircraft Systems	Fuel / Oil	Hot Air Balloon / Propane
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT161		
Aeronautical Information Manual		
Airspace	Controlled	Class D
Sectional Aeronautical Chart		
Airspace	Procedures	Mode C Veil

PLT162
14 CFR 91
Airspace | Controlled | Class C
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT163
14 CFR 91
Regulations | 14CFR Part 91 | Flight Rules
Regulations | 14CFR Part 91 | Visual Flight Rules

PLT170
Balloon Flying Handbook, FAA-H-8083-11
Flight Operations | Emergency Procedures | Balloon
Flight Operations | Landing | Balloon

PLT173
AC 00-6 Aviation Weather
Weather | Meteorology | Stability

PLT177
14 CFR 61
Regulations | 14CFR Part 61 | Pilot Certificate

PLT178
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane

PLT180
Balloon Flying Handbook, FAA-H-8083-11
Aerodynamics | Principles of Flight | Balloon

PLT182
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Flight Controls / Primary | Balloon

PLT192
AC 00-6 Aviation Weather
Weather | Meteorology | Clouds
Weather | Meteorology | Moisture
Weather | Meteorology | Stability
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Stability

PLT194
Aeronautical Information Manual
Flight Operations | Collision Avoidance | Vision in Flight

PLT197
AC 00-6 Aviation Weather
Weather | Meteorology | Wind
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Meteorology | Circulation

PLT204
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Effective Communication | Barriers to Effective Communication
Fundamentals of Instruction | Effective Communication | Basic Elements
Fundamentals of Instruction | Effective Communication | Presentation

PLT208
Balloon Flying Handbook, FAA-H-8083-11
Flight Operations | Emergency Procedures | Balloon

PLT211
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Critique/Evaluation | Testing

PLT219
How To Fly A Balloon
Flight Operations | Maneuvers | Balloon

PLT220
14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT221
Balloon Flying Handbook, FAA-H-8083-11
Flight Operations | Landing | Balloon
Flight Operations | Takeoff | Balloon
Powerline Excerpts - Balloon Federation of America
Flight Operations | Launch Procedures | Balloon

PLT225
14 CFR 91
Regulations | 14CFR Part 91 | Preflight Action

PLT226
AC 00-6 Aviation Weather
Weather | Meteorology | Fog

PLT227
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Student Piloting Ability Evaluation

PLT229
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Professionalism | Acceptance of the Student
Fundamentals of Instruction | Professionalism | Sincerity

PLT231
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Control of Human Behavior
Fundamentals of Instruction | Human Behavior | Flight Instructor as a Practical Psychologist
Fundamentals of Instruction | Learning Process | Laws of Learning

PLT232
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Providing Adequate Instruction

PLT233
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Defense Mechanisms

PLT251
Balloon Digest - Balloon Federation of America
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane

Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane
Flight Operations | Emergency Procedures | Balloon Fuel Management

PLT253
Balloon Digest - Balloon Federation of America
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane

Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane

PLT254
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Fuel / Oil | Hot Air Balloon / Propane

PLT263
AC 00-6 Aviation Weather
Weather | Meteorology | Fog
Weather | Meteorology | Fronts

PLT270
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Human Needs

PLT284
AC 00-45 Aviation Weather Services
Weather | Aeronautical Weather Forecasts | Winds / Temperature Aloft (FD)

PLT286
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Low-Level Significant Weather Prog

PLT287
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Surface Analysis Charts

PLT288
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Aerodrome Forecast (TAF)

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Aeronautical Weather Forecasts | Aerodrome Forecast (TAF)

PLT289
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Weather Depiction Charts

PLT290
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Inflight Aviation Weather Advisories

PLT291
AC 00-45 Aviation Weather Services
Weather | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA)
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA)

PLT294
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Inflight Aviation Weather Advisories

PLT295
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Critique/Evaluation | Instructor as a Critic
Fundamentals of Instruction | Techniques-Flight Instruction | Obstacles to Learning during Flight Instruction

PLT301
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature

PLT306
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Characteristics of Learning
Fundamentals of Instruction | Learning Process | Levels of Learning

PLT308
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Definition of Learning
Fundamentals of Instruction | Learning Process | Perceptions

PLT323
14 CFR 91
Regulations | 14CFR Part 91 | General

PLT332
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Hyperventilation

PLT346
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Flight Controls / Primary | Balloon

PLT366
49 CFR 830
Regulations | NTSB Part 830 | Accident Report
Regulations | NTSB Part 830 | Incident Report

PLT374
14 CFR 1
Regulations | 14CFR Part 1 | Definitions
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT377
14 CFR 91
Regulations | 14CFR Part 91 | Aircraft Certificate Requirements
49 CFR 830
Regulations | NTSB Part 830 | Accident Report

PLT387
14 CFR 61
Regulations | 14CFR Part 61 | Current Address

PLT389
14 CFR 91
Regulations | 14CFR Part 91 | Special Flight Operations

PLT392
14 CFR 91
Regulations | 14CFR Part 91 | General

PLT393
14 CFR 91
Regulations | 14CFR Part 91 | Restricted and Prohibited Areas
Aeronautical Information Manual
Airspace | Controlled | Low Altitude Airways

PLT395
14 CFR 1
Regulations | 14CFR Part 1 | Definitions

PLT399
14 CFR 61
Regulations 14CFR Part 61 Pilot-in-Command

PLT409
14 CFR 61
Regulations 14CFR Part 61 Logbook

PLT411
14 CFR 61
Regulations 14CFR Part 61 Flight Instructor

PLT419
14 CFR 61
Regulations 14CFR Part 61 Flight Instructor
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Instructor Responsibilities Minimizing Student Frustrations

PLT425
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT426
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT427
14 CFR 61
Regulations 14CFR Part 61 Medical Certificates

PLT431
14 CFR 91
Regulations 14CFR Part 91 Flight Rules

PLT438
14 CFR 91
Regulations 14CFR Part 91 Instrument and Equipment Requirements

PLT443
14 CFR 61
Regulations 14CFR Part 61 Pilot Certificate

PLT444
14 CFR 61
Regulations 14CFR Part 61 Flight Review
14 CFR 91
Regulations 14CFR Part 91 General

PLT446
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT454
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT457
14 CFR 61
Regulations 14CFR Part 61 Student Pilot

PLT473
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems Flight Controls / Secondary Balloon

PLT475
AC 00-6 Aviation Weather
Weather Meteorology Thunderstorms

PLT481
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Critique/Evaluation Instructor as a Critic
Fundamentals of Instruction Teaching Process Basic Steps

PLT482
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Critique/Evaluation Instructor as a Critic
Fundamentals of Instruction Critique/Evaluation Quizzing

PLT487
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Teaching Methods Demonstration-Performance Method

PLT488
Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Teaching Methods	Guided Discussion Method
Fundamentals of Instruction	Teaching Methods	Lecture Method

PLT489
Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Teaching Methods	Organizing Material

PLT490
Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Instructor Responsibilities	Providing Adequate Instruction
Fundamentals of Instruction	Instructor Responsibilities	Student Motivation
Fundamentals of Instruction	Learning Process	Laws of Learning
Fundamentals of Instruction	Learning Process	Motivation

PLT491
Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Planning Instructional Activity	Course of Training
Fundamentals of Instruction	Planning Instructional Activity	Lesson Plans
Fundamentals of Instruction	Teaching Methods	Lecture Method
Fundamentals of Instruction	Teaching Methods	Organizing Material

PLT492
AC 00-6 Aviation Weather

Weather	Meteorology	Stability
Weather	Meteorology	Temperature
Weather	Meteorology	Temperature / Pressure

PLT495
AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT497
14 CFR 91

Regulations	14CFR Part 91	ATC Transponder / Altitude Reporting Equipment

PLT505
Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Instructional Aids	Use

PLT509
Aeronautical Information Manual

Flight Operations	Wake Turbulence	Helicopter Vortices

PLT511
AC 00-6 Aviation Weather

Weather	Meteorology	Air Masses
Weather	Meteorology	Fronts
Weather	Meteorology	Stability

PLT512
AC 00-6 Aviation Weather

Weather	Meteorology	Moisture

PLT515
AC 00-45 Aviation Weather Services

Weather	Aeronautical Weather Forecasts	Weather Forecast Offices (WFO)

PLT516
AC 00-6 Aviation Weather

Weather	Meteorology	Circulation
Weather	Meteorology	Wind

PLT517
AC 00-6 Aviation Weather

Weather	Meteorology	Circulation

PLT518
AC 00-6 Aviation Weather

Weather	Hazardous	Windshear

Aeronautical Information Manual

Weather	Hazardous	Windshear

Commercial Pilot—Balloon—Gas (CBG)
Sample Questions

COMMERCIAL PILOT—BALLOON—GAS (CBG)

1. Vertical control of a gas balloon is accomplished by

A—using the rip panel rope.
B—valving gas or releasing ballast.
C—opening and closing the appendix.

Answer: B.
Learning Statement: Recall forces acting on an aircraft—stability/controllability.

2. The weigh-off procedure is useful because the

A—pilot can adjust the altimeter to the correct setting.
B—ground crew can assure that downwind obstacles are cleared.
C—pilot will learn what the equilibrium conditions are prior to being committed to fly.

Answer: C.
Learning Statement: Recall flight operations—takeoff/landing procedures.

3. What should an instructor do if a student is suspected of not fully understanding the principles involved in a task, even though the student can correctly perform the task?

A—Require the student to apply the same elements to the performance of other tasks.
B—Require the student to repeat the task, as necessary, until the principles are understood.
C—Repeat demonstrating the task as necessary until the student understands the principles.

Answer: A.
Learning Statement: Recall FOI techniques—integrated flight instruction.

4. Operation of a balloon, during the period of sunset to sunrise, requires that it be equipped and lighted with

A—red and green position lights.
B—a steady aviation white position light and a red or white anti-collision light.
C—approved aviation red and white lights.

Answer: B.
Learning Statement: Recall flight operations—night and high altitude operations.

5. Operation of a gas balloon above 18,000' MSL would require obtaining Air Route Traffic Control Center (ARTCC)—radio contact; these radio frequencies are found

A—in the Airman's Information Manual.
B—on an IFR En route High Altitude Chart.
C—on a local Terminal Area (TAC)—Chart.

Answer: B.
Learning Statement: Interpret information on a High Altitude Chart.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—BALLOON–GAS (CBG) KNOWLEDGE TESTS

Topic	*Content*	*Specific*
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
PLT030		
Balloon Flying Handbook, FAA-H-8083-11		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT040		
14 CFR 91		
Airspace	Controlled	Class C
PLT059		
Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	METAR
PLT061		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	PIREP
PLT064		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT068		
AC 00-45 Aviation Weather Services		
Weather	Charts / Maps	High-Level Significant Weather Prog
PLT072		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT124		
Balloon Flying Handbook, FAA-H-8083-11		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT162		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT180		
Balloon Flying Handbook, FAA-H-8083-11		
Aerodynamics	Principles of Flight	Balloon
PLT183		
Balloon Flying Handbook, FAA-H-8083-11		
Flight Operations	Descent	Gas Balloon
PLT192		
AC 00-6 Aviation Weather		
Weather	Meteorology	Clouds
Weather	Meteorology	Moisture
PLT197		
AC 00-6 Aviation Weather		
Weather	Meteorology	Circulation
Weather	Meteorology	Wind
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Meteorology	Circulation
PLT204		
Aviation Instructor Handbook, FAA-H-8083-9		
Fundamentals of Instruction	Effective Communication	Basic Elements
PLT208		
Balloon Flying Handbook, FAA-H-8083-11		
Flight Operations	Emergency Procedures	Balloon
PLT211		
Aviation Instructor Handbook, FAA-H-8083-9		
Fundamentals of Instruction	Critique/Evaluation	Testing

PLT220
14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT221
Balloon Flying Handbook, FAA-H-8083-11
Flight Operations | Takeoff | Balloon

PLT226
AC 00-6 Aviation Weather
Weather | Meteorology | Fog

PLT227
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Student Piloting Ability Evaluation

PLT231
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Control of Human Behavior
Fundamentals of Instruction | Learning Process | Laws of Learning

PLT232
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Providing Adequate Instruction

PLT233
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Defense Mechanisms

PLT244
Balloon Flying Handbook, FAA-H-8083-11
Flight Operations | Maneuvers | Balloon

PLT263
AC 00-6 Aviation Weather
Weather | Meteorology | Fronts

PLT284
AC 00-45 Aviation Weather Services
Weather | Aeronautical Weather Forecasts | Winds / Temperature Aloft (FD)

PLT288
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Aerodrome Forecast (TAF)

PLT289
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Weather Depiction Charts

PLT290
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Inflight Aviation Weather Advisories

PLT295
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Techniques-Flight Instruction | Obstacles to Learning during Flight Instruction

PLT301
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature

PLT306
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Characteristics of Learning
Fundamentals of Instruction | Learning Process | Levels of Learning

PLT308
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Definition of Learning
Fundamentals of Instruction | Learning Process | Perceptions

PLT330
Aeronautical Information Manual
Human Factors | Aeromedical | Hypoxia

PLT332
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Hyperventilation

PLT353
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Charts / Maps | Radar Summary Charts

PLT366
49 CFR 830
Regulations | NTSB Part 830 | Accident Report
Regulations | NTSB Part 830 | Incident Report

PLT374
14 CFR 1
Regulations | 14CFR Part 1 | Definitions
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT377
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT378
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT387
14 CFR 61
Regulations | 14CFR Part 61 | Current Address

PLT389
14 CFR 91
Regulations | 14CFR Part 91 | Special Flight Operations

PLT399
14 CFR 61
Regulations | 14CFR Part 61 | Pilot-in-Command

PLT407
14 CFR 61
Regulations | 14CFR Part 61 | Student Pilot

PLT411
14 CFR 61
Regulations | 14CFR Part 61 | Flight Instructor

PLT419
14 CFR 61
Regulations | 14CFR Part 61 | Flight Instructor

PLT427
14 CFR 61
Regulations | 14CFR Part 61 | Medical Certificates

PLT431
14 CFR 91
Regulations | 14CFR Part 91 | General

PLT438
14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT444
14 CFR 61
Regulations | 14CFR Part 61 | Flight Review
14 CFR 91
Regulations | 14CFR Part 91 | General

PLT454
14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT473
Balloon Flying Handbook, FAA-H-8083-11
Aircraft Systems | Flight Controls / Secondary | Balloon

PLT475
AC 00-6 Aviation Weather
Weather | Meteorology | Thunderstorms

PLT489
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Teaching Methods | Organizing Material

PLT490
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Providing Adequate Instruction
Fundamentals of Instruction | Learning Process | Laws of Learning
Fundamentals of Instruction | Learning Process | Motivation

PLT491

Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Planning Instructional Activity	Course of Training
Fundamentals of Instruction	Teaching Methods	Organizing Material

PLT492

AC 00-6 Aviation Weather

Weather	Meteorology	Temperature

PLT495

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT501

AC 00-6 Aviation Weather

Weather	Hazardous	Turbulence

PLT503

Aeronautical Information Manual

Human Factors	Aeromedical	Alcohol

PLT511

AC 00-6 Aviation Weather

Weather	Meteorology	Air Masses
Weather	Meteorology	Fronts
Weather	Meteorology	Stability

PLT515

AC 00-45 Aviation Weather Services

Weather	Aeronautical Weather Forecasts	Weather Forecast Offices (WFO)

Aeronautical Information Manual

Weather	Aeronautical Weather Forecasts	Inflight Aviation Weather Advisories

PLT517

AC 00-6 Aviation Weather

Weather	Meteorology	Circulation

PLT518

AC 00-6 Aviation Weather

Weather	Hazardous	Windshear

Aeronautical Information Manual

Weather	Hazardous	Windshear

Commercial Pilot—Lighter-than-Air—Airship (CLA)
Sample Questions

COMMERCIAL PILOT—LIGHTER-THAN-AIR—AIRSHIP (CLA)

1. To accomplish maximum headway, the airship must be kept

A—heavy by the bow and light by the stern.
B—at equilibrium.
C—heavy and flown dynamically positive.

Answer: B.
Learning Statement: Recall airship—flight operations.

2. You have flown 52 miles; you are 6 miles off course and have 118 miles yet to fly. To converge on your destination, the total correction angle would be

A—6 degrees.
B—10 degrees.
C—3 degrees.

Answer: B.
Learning Statement: Calculate aircraft performance—time/speed/distance/course/fuel/wind.

3. The Low Level Wind Shear Alert System (LLWAS) provides data and software processes to detect the presence of a

A—downward motion of the air associated with continuous winds blowing with an easterly component due to the rotation of the earth.
B—rotating column of air extending from a cumulonimbus cloud.
C—change in wind direction and/or speed within a very short distance above the airport.

Answer: C.
Learning Statement: Recall wind shear—characteristics/hazards/power management.

4. When under stress, normal individuals usually react

A—by responding rapidly and exactly, often automatically, within the limits of their experience and training.
B—with marked changes in mood on different lessons.
C—with extreme over cooperation, painstaking self-control, and laughing or singing.

Answer: A.
*Learning Statement: Recall FOI techniques/human behavior/anxiety/fear/stress***.**

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT—LIGHTER-THAN-AIR—AIRSHIP (CLA) KNOWLEDGE TEST

Topic	*Content*	*Specific*
PLT012		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT014		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	ADF/NDB
PLT037		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	Radar Weather Reports (SD)
PLT040		
IFR Enroute Low Altitude Chart		
Instrument Procedures	En Route	Altitudes
Sectional Aeronautical Chart		
Airspace	Controlled	Class E
PLT044		
Aeronautical Information Manual		
Instrument Procedures	Communications	Terminology
PLT059		
Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds
PLT061		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports	PIREP
PLT064		
Sectional Aeronautical Chart		
Airspace	Controlled	Class D
Airspace	Uncontrolled	Class G
Navigation	Pilotage	Charts
PLT072		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT080		
Aeronautical Information Manual		
Instrument Procedures	Approach Procedures	STAR and FMSP
PLT083		
Instrument Flying Handbook, FAA-H-8083-15		
Instrument Procedures	Approach Procedures	Equipment / Components
Instrument Procedures	Approach Procedures	Procedure Turns
U.S. Terminal Procedures		
Instrument Procedures	Approach Procedures	Landing Minima
Instrument Procedures	Approach Procedures	Profile
PLT090		
Aeronautical Information Manual		
Navigation	Radio	VOR
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
Navigation	Radio	VOR
PLT091		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Radio	Bearing / Radial Intercepts
PLT101		
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT118		
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments	Turn Indicators

PLT133
Airship Aerodynamics Technical Manual
Flight Operations	Descent	Airship

PLT141
Aeronautical Information Manual
Airport Operations	Marking / Signs	Runway Incursions

PLT152
Airship Aerodynamics Technical Manual
Aerodynamics	Principles of Flight	Airship

PLT153
Airship Aerodynamics Technical Manual
Aerodynamics	Principles of Flight	Airship
Aircraft Systems	Flight Controls / Secondary	Airship
Flight Operations	Cruise	Airship
Flight Operations	Landing	Airship

PLT157
Airship Aerodynamics Technical Manual
Aircraft Systems	Flight Controls / Secondary	Airship

PLT161
14 CFR 91
Regulations	14CFR Part 91	Instrument and Equipment Requirements

PLT163
14 CFR 91
Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	Visual Flight Rules

PLT170
Aeronautical Information Manual
Instrument Procedures	Approach Procedures	Minimum Altitudes

PLT173
AC 00-6 Aviation Weather
Weather	Meteorology	Stability

PLT189
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems	Powerplant	Carburetor Heat

PLT192
AC 00-6 Aviation Weather
Weather	Meteorology	Clouds
Weather	Meteorology	Moisture

PLT194
AC 90-48 Pilots` Role in Collision Avoidance
Flight Operations	Collision Avoidance	Judging Threats

PLT197
AC 00-6 Aviation Weather
Weather	Meteorology	Circulation
Weather	Meteorology	Wind

PLT204
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction	Effective Communication	Barriers to Effective Communication
Fundamentals of Instruction	Effective Communication	Basic Elements

PLT208
Airship Aerodynamics Technical Manual
Flight Operations	Emergency Procedures	Airship

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Flight Operations	Emergency Procedures	Lost Procedures

PLT220
14 CFR 61
Regulations	14CFR Part 61	Night

PLT221
Airship Aerodynamics Technical Manual
Flight Operations	Landing	Airship
Flight Operations	Launch Procedures	Airship

PLT224
Aeronautical Information Manual
Instrument Procedures	Flight Planning	Flight Plan

PLT225
14 CFR 91
Regulations | 14CFR Part 91 | Preflight Action

PLT226
AC 00-6 Aviation Weather
Weather | Meteorology | Fog

PLT229
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Professionalism | Acceptance of the Student
Fundamentals of Instruction | Professionalism | Sincerity

PLT231
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Control of Human Behavior
Fundamentals of Instruction | Human Behavior | Flight Instructor as a Practical Psychologist
Fundamentals of Instruction | Learning Process | Laws of Learning

PLT232
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Instructor Responsibilities | Providing Adequate Instruction

PLT233
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Human Behavior | Defense Mechanisms

PLT244
Airship Aerodynamics Technical Manual
Aerodynamics | Flight Characteristics | Airship Controllability

PLT249
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Mixture Control

PLT261
AC 00-6 Aviation Weather
Weather | Meteorology | Thunderstorms

PLT276
Aeronautical Information Manual
Navigation | Radio | VOR

Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | VOR

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Navigation | Radio | VOR

PLT277
U.S. Terminal Procedures
Instrument Procedures | Approach Procedures | Profile

PLT287
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Surface Analysis Charts

PLT288
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Weather | Aeronautical Weather Forecasts | Aerodrome Forecast (TAF)

PLT289
AC 00-45 Aviation Weather Services
Weather | Charts / Maps | Weather Depiction Charts

PLT293
Aeronautical Information Manual
Instrument Procedures | Departure | Responsibilities

PLT294
Aeronautical Information Manual
Weather | Aeronautical Weather Forecasts | Inflight Aviation Weather Advisories

PLT295
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Techniques-Flight Instruction | Obstacles to Learning during Flight Instruction

PLT298
14 CFR 91
Instrument Procedures | En Route | VFR on Top

PLT301
AC 00-6 Aviation Weather
Weather | Meteorology | Temperature

PLT306
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Characteristics of Learning

PLT308
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction | Learning Process | Perceptions

PLT322
Instrument Flying Handbook, FAA-H-8083-15
Navigation | Radio | Bearing / Radial Intercepts

PLT323
14 CFR 91
Regulations | 14CFR Part 91 | General

PLT332
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Hyperventilation

PLT333
Airplane Flying Handbook, FAA-H-8083-3A
Flight Operations | Night | Orientation & Navigation

Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Human Factors | Aeromedical | Night Vision

PLT343
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Combustion
Aircraft Systems | Powerplant | Mixture Control

PLT344
AC 00-6 Aviation Weather
Weather | Meteorology | Fronts
Weather | Meteorology | Precipitation

PLT350
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Propeller | Adjustable-Pitch

PLT351
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Propeller | Principles

PLT365
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems | Powerplant | Combustion

PLT366
49 CFR 830
Regulations | NTSB Part 830 | Accident Report
Regulations | NTSB Part 830 | Incident Report

PLT374
14 CFR 1
Regulations | 14CFR Part 1 | Definitions

14 CFR 91
Regulations | 14CFR Part 91 | Maintenance

PLT377
14 CFR 91
Regulations | 14CFR Part 91 | Instrument and Equipment Requirements

PLT380
14 CFR 91
Regulations | 14CFR Part 91 | Flight Rules

PLT387
14 CFR 61
Regulations | 14CFR Part 61 | Current Address

PLT389
14 CFR 91
Regulations | 14CFR Part 91 | Special Flight Operations

PLT391
14 CFR 61
Instrument Procedures | Communications | Failure

PLT395
14 CFR 1
Regulations | 14CFR Part 1 | Definitions

PLT400
14 CFR 91
Regulations 14CFR Part 91 Preflight Action

PLT405
14 CFR 91
Regulations 14CFR Part 91 Instrument and Equipment Requirements

PLT411
14 CFR 61
Regulations 14CFR Part 61 Flight Instructor

PLT414
14 CFR 91
Regulations 14CFR Part 91 Right-of-Way

PLT416
49 CFR 830
Regulations NTSB Part 830 Immediate Notification
Regulations NTSB Part 830 Notification

PLT419
14 CFR 61
Regulations 14CFR Part 61 Flight Instructor
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Instructor Responsibilities Minimizing Student Frustrations

PLT426
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT442
14 CFR 61
Regulations 14CFR Part 61 Night

PLT444
14 CFR 61
Regulations 14CFR Part 61 Flight Review
Regulations 14CFR Part 61 Pilot-in-Command

PLT447
14 CFR 61
Regulations 14CFR Part 61 Medical Certificates

PLT450
14 CFR 61
Regulations 14CFR Part 61 Logbook

PLT454
14 CFR 91
Regulations 14CFR Part 91 Maintenance

PLT467
14 CFR 91
Regulations 14CFR Part 91 Visual Flight Rules

PLT473
Airship Aerodynamics Technical Manual
Aircraft Systems Flight Controls / Secondary Airship

PLT475
AC 00-6 Aviation Weather
Weather Meteorology Thunderstorms

PLT478
Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25
Aircraft Systems Powerplant Ignition System

PLT482
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Critique/Evaluation Instructor as a Critic
Fundamentals of Instruction Critique/Evaluation Quizzing

PLT488
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Teaching Methods Lecture Method

PLT489
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Teaching Methods Organizing Material

PLT490
Aviation Instructor Handbook, FAA-H-8083-9
Fundamentals of Instruction Learning Process Laws of Learning

PLT491

Aviation Instructor Handbook, FAA-H-8083-9

Fundamentals of Instruction	Teaching Methods	Lecture Method
Fundamentals of Instruction	Teaching Methods	Organizing Material

PLT492

AC 00-6 Aviation Weather

Weather	Meteorology	Temperature

PLT495

AC 00-6 Aviation Weather

Weather	Meteorology	Thunderstorms

PLT501

AC 00-6 Aviation Weather

Weather	Hazardous	Turbulence

PLT508

14 CFR 91

Navigation	Radio	VOR
Regulations	14CFR Part 91	Instrument and Equipment Requirements

PLT509

Aeronautical Information Manual

Flight Operations	Wake Turbulence	Helicopter Vortices

PLT511

AC 00-6 Aviation Weather

Weather	Meteorology	Air Masses
Weather	Meteorology	Fronts
Weather	Meteorology	Stability

PLT515

AC 00-45 Aviation Weather Services

Weather	Aeronautical Weather Forecasts	Weather Forecast Offices (WFO)

Aeronautical Information Manual

Weather	Aeronautical Weather Forecasts	Inflight Aviation Weather Advisories
Weather	Aeronautical Weather Forecasts	Preflight Planning

PLT516

AC 00-6 Aviation Weather

Weather	Meteorology	Circulation

PLT518

AC 00-6 Aviation Weather

Weather	Hazardous	Windshear

Aeronautical Information Manual

Weather	Hazardous	Windshear

Military Competency—Airplane (MCA)
Sample Questions

MILITARY COMPETENCY—AIRPLANE (MCA)

1. Once a pilot-in-command accepts a "land and hold short" (LAHSO) clearance, the clearance must be adhered to, just as any other ATC clearance, unless

A—an amended clearance is obtained or an emergency occurs.
B—the wind changes or Available Landing Distance decreases.
C—Available Landing Distance decreases or density altitude increases.

Answer: A.
Learning Statement: Recall airport operations—LAHSO.

2. Pilots are not authorized to land an aircraft from an instrument approach unless the

A—flight visibility is at, or exceeds the visibility prescribed in the approach procedure being used.
B—flight visibility and ceiling are at, or exceeds the minimums prescribed in the approach being used.
C—visual approach slope indicator and runway references are distinctly visible to the pilot.

Answer: C.
Learning Statement: Recall approach/landing/taxiing techniques.

3. Assuring compliance with an Airworthiness Directive is the responsibility of the

A—pilot in command and the FAA certificated mechanic assigned to that aircraft.
B—pilot in command of that aircraft.
C—owner or operator of that aircraft.

Answer: C
Learning Statement: Recall regulations—aircraft owner/operator responsibilities.

4. Which is required equipment for powered aircraft during VFR night flights?

A—Flashlight with red lens, if the flight is for hire.
B—An electric landing light, if the flight is for hire.
C—Sensitive altimeter adjustable for barometric pressure.

Answer: B.
Learning Statement: Recall regulations—equipment/instrument/certificate requirements.

5. While being radar vectored, an approach clearance is received. The last assigned altitude should be maintained until

A—reaching the FAF.
B—advised to begin descent.
C—established on a segment of a published route or instrument approach procedure.

Answer: C.
Learning Statement: Recall approach/landing/taxiing techniques.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE MILITARY COMPETENCY—AIRPLANE (MCA)—KNOWLEDGE TEST

Topic	*Content*	*Specific*
PLT040		
Sectional Aeronautical Chart		
Airspace	Controlled	Class E
PLT041		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
PLT044		
14 CFR 91		
Airspace	Controlled	Class D
PLT053		
14 CFR 91		
Instrument Procedures	Flight Planning	Flight Plan
PLT085		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
PLT113		
14 CFR 23		
Aircraft Performance	Limitations	Utility Category
PLT119		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT123		
14 CFR 91		
Regulations	14CFR Part 91	Aircraft Speed
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT161		
14 CFR 91		
Airport Operations	Traffic Patterns	Standard Procedure
Airspace	Controlled	Class B
Instrument Procedures	Communications	Reports
Regulations	14CFR Part 91	Aircraft Speed
Regulations	14CFR Part 91	ATC Transponder / Altitude Reporting Equipment
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Visual Flight Rules
PLT162		
14 CFR 91		
Airspace	Controlled	Class A
Airspace	Controlled	Class B
Airspace	Controlled	Class C
PLT163		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	Visual Flight Rules
PLT170		
14 CFR 91		
Instrument Procedures	Approach Procedures	Landing Minima
PLT220		
14 CFR 61		
Regulations	14CFR Part 61	Night
PLT224		
14 CFR 91		
Instrument Procedures	Flight Planning	Flight Plan
PLT225		
14 CFR 91		
Regulations	14CFR Part 91	Preflight Action
PLT323		
14 CFR 91		
Regulations	14CFR Part 91	General

PLT366
49 CFR 830

Regulations	NTSB Part 830	Accident Report
Regulations	NTSB Part 830	Incident Report

PLT369
14 CFR 91

Regulations	14CFR Part 91	Special Flight Operations

PLT371
14 CFR 61

Regulations	14CFR Part 61	Aircraft Class Ratings

PLT372
14 CFR 91

Regulations	14CFR Part 91	Maintenance

PLT373
14 CFR 91

Regulations	14CFR Part 91	Special Flight Operations

PLT374
14 CFR 1

Regulations	14CFR Part 1	Definitions

14 CFR 91

Regulations	14CFR Part 91	Maintenance

PLT377
14 CFR 91

Regulations	14CFR Part 91	Aircraft Certificate Requirements
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Limitations
Regulations	14CFR Part 91	Maintenance

49 CFR 830

Regulations	NTSB Part 830	Accident Report

PLT378
14 CFR 91

Regulations	14CFR Part 91	Maintenance

PLT380
14 CFR 91

Regulations	14CFR Part 91	Flight Rules

PLT382
14 CFR 91

Instrument Procedures	Approach Procedures	Landing Minima

PLT386
14 CFR 61

Regulations	14CFR Part 61	Pilot Certificate

PLT387
14 CFR 61

Regulations	14CFR Part 61	Current Address

PLT389
14 CFR 91

Regulations	14CFR Part 91	Special Flight Operations

PLT392
14 CFR 91

Regulations	14CFR Part 91	General

PLT393
14 CFR 91

Instrument Procedures	Communications	Reports

Aeronautical Information Manual

Airspace	Controlled	Low Altitude Airways

PLT395
14 CFR 1

Regulations	14CFR Part 1	Definitions

PLT399
14 CFR 61

Regulations	14CFR Part 61	Pilot-in-Command

PLT400
14 CFR 91

Regulations	14CFR Part 91	Preflight Action

PLT401		
14 CFR 91		
Regulations	14CFR Part 91	General
PLT405		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT407		
14 CFR 61		
Regulations	14CFR Part 61	Glider Towing
PLT409		
14 CFR 61		
Regulations	14CFR Part 61	Logbook
PLT412		
14 CFR 91		
Regulations	14CFR Part 91	General
PLT414		
14 CFR 91		
Regulations	14CFR Part 91	Right-of-Way
PLT415		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT416		
49 CFR 830		
Regulations	NTSB Part 830	Immediate Notification
Regulations	NTSB Part 830	Notification
PLT417		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT425		
14 CFR 91		
Regulations	14CFR Part 91	Maintenance
PLT426		
14 CFR 91		
Regulations	14CFR Part 91	Maintenance
PLT431		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	General
PLT434		
14 CFR 91		
Airspace	Controlled	Class E
PLT438		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Supplemental Oxygen
PLT442		
14 CFR 61		
Regulations	14CFR Part 61	Night
PLT444		
14 CFR 61		
Regulations	14CFR Part 61	Flight Review
Regulations	14CFR Part 61	High Performance Endorsement
Regulations	14CFR Part 61	Pilot-in-Command
Regulations	14CFR Part 61	Tailwheel Airplane
Regulations	14CFR Part 61	TypeRating
14 CFR 91		
Regulations	14CFR Part 91	General
49 CFR 830		
Regulations	NTSB Part 830	Immediate Notification
PLT445		
14 CFR 91		
Regulations	14CFR Part 91	Preflight Action
PLT446		
14 CFR 91		
Regulations	14CFR Part 91	Emergency Locator Transmitters
Regulations	14CFR Part 91	Maintenance

PLT447		
14 CFR 61		
Regulations	14CFR Part 61	Medical Certificates
PLT448		
14 CFR 61		
Regulations	14CFR Part 61	Pilot Certificate
Regulations	14CFR Part 61	Pilot-in-Command
Regulations	14CFR Part 61	Second-in-Command
14 CFR 91		
Regulations	14CFR Part 91	Flight Crewmembers at Station
PLT450		
14 CFR 61		
Regulations	14CFR Part 61	Logbook
PLT454		
14 CFR 91		
Regulations	14CFR Part 91	Maintenance
PLT461		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT463		
14 CFR 61		
Regulations	14CFR Part 61	Drugs and/or Alcohol
PLT464		
14 CFR 91		
Regulations	14CFR Part 91	Flight Crewmembers at Station
PLT465		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
PLT466		
14 CFR 1		
Regulations	14CFR Part 1	Definitions
PLT467		
14 CFR 91		
Regulations	14CFR Part 91	Visual Flight Rules
PLT497		
14 CFR 91		
Regulations	14CFR Part 91	ATC Transponder / Altitude Reporting Equipment
PLT508		
14 CFR 91		
Navigation	Radio	VOR
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Preflight Action

Military Competency—Helicopter (MCH)
Sample Questions

MILITARY COMPETENCY—HELICOPTER (MCH)

1. When in the vicinity of a VOR which is being used for navigation on VFR flights, it is important to

A—make 90° left and right turns to scan for other traffic.
B—exercise sustained vigilance to avoid aircraft that may be converging on the VOR from other directions.
C—pass the VOR on the right side of the radial to allow room for aircraft flying in the opposite direction on the same radial.

Answer: B.
Learning Statement: Recall collision avoidance—scanning techniques.

2. For IFR operations off established airways, ROUTE OF FLIGHT portion of an IFR flight plan should list VOR navigational aids which are no more than

A—40 miles apart.
B—70 miles apart.
C—80 miles apart.

Answer: A.
Learning Statement: Recall Flight Plan—IFR.

3. A pilot convicted of a motor vehicle offense involving alcohol or drugs is required to provide a written report to the

A—nearest FAA Flight Standards District Office (FSDO) within 60 days after such action.
B—FAA Civil Aero-medical Institute (CAMI) within 60 days after the conviction.
C—FAA Civil Aviation Security Division (AMC-700) within 60 days after such action.

Answer: C.
Learning Statement: Recall regulations—use of narcotics/drugs/intoxicating liquor.

4. Which is true regarding the presence of alcohol within the human body?

A—A small amount of alcohol increases vision acuity.
B—An increase in altitude decreases the adverse effect of alcohol.
C—Judgment and decision-making abilities can be adversely affected by even small amounts of alcohol.

Answer: C.
Learning Statement: Recall use of narcotics/drugs/intoxicating liquor.

5. The maximum cumulative time that an emergency locator transmitter may be operated before the rechargeable battery must be recharged is

A—30 minutes.
B—45 minutes.
C—60 minutes.

Answer A.
Learning Statement: Recall regulations preventive maintenance.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE MILITRY COMPETENCY—HELICOPTER (MCH) KNOWLEDGE TEST

Topic	*Content*	*Specific*
PLT044		
14 CFR 91		
Airspace	Controlled	Class D
PLT053		
14 CFR 91		
Instrument Procedures	Flight Planning	Flight Plan
PLT119		
14 CFR 91		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT161		
14 CFR 91		
Airport Operations	Traffic Patterns	Standard Procedure
Instrument Procedures	Communications	Reports
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Aeronautical Information Manual		
Airspace	Controlled	Class D
PLT162		
14 CFR 91		
Airspace	Controlled	Class A
Airspace	Controlled	Class C
PLT163		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	Visual Flight Rules
PLT220		
14 CFR 61		
Regulations	14CFR Part 61	Night
PLT224		
14 CFR 91		
Instrument Procedures	Flight Planning	Flight Plan
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14 CFR 91		
Regulations	14CFR Part 91	Preflight Action
PLT323		
14 CFR 91		
Regulations	14CFR Part 91	General
PLT366		
49 CFR 830		
Regulations	NTSB Part 830	Accident Report
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