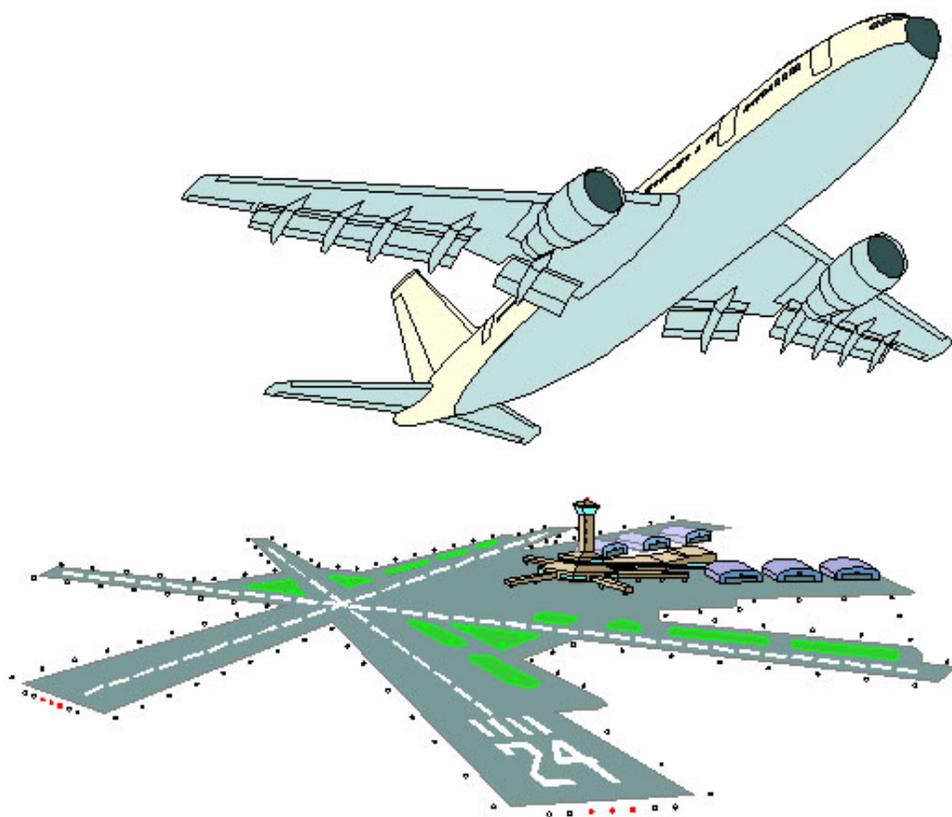


COMMERCIAL PILOT KNOWLEDGE TEST GUIDE



October 2016



U.S. Department of Transportation
Federal Aviation Administration

INTRODUCTION

FAA-G-8082-5, dated October 2016, Commercial Pilot Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes all previously dated FAA-G-8082-5 versions.

<u>Test Name</u>	<u>Test Code</u>
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
Commercial Pilot Canadian Conversion—Airplane	CCP
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 emailed 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/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

The following test contains 40 questions, and you are allowed 2 hours to complete the test:

- Commercial Pilot Canadian Conversion—Airplane

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/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.
- For graph type questions, the applicant may request a printed copy of the graph on which they may actually draw and write to compute the answer. The applicant must turn in all paper work upon completion of the test.

USE OF TEST AIDS AND MATERIALS

You may use aids, reference materials, and test materials within the guidelines listed below, if actual test questions or answers are not revealed. All models of aviation-oriented calculators may be used, including small electronic calculators that perform only arithmetic functions (add, subtract, multiply, and divide). Simple programmable memories, which allow addition to, subtraction from, or retrieval of one number from the memory, are permissible. Also, simple functions, such as square root and percent keys are permissible.

The following guidelines apply:

1. You may use any reference materials provided with the test. In addition, you may use scales,

straightedges, protractors, plotters, navigation computers, log sheets, and electronic or mechanical calculators that are directly related to the test.

2. 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 referred to as proctor), you must actuate the ON/OFF switch and perform any other function that ensures erasure of any data stored in memory circuits.
 - b. The use of electronic calculators incorporating permanent or continuous type memory circuits without erasure capability is prohibited. The 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 http://www.faa.gov/training_testing/testing/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.

REQUESTING YOUR TEST BE HAND-SCORED

If you wish to have your test hand-scored, you must submit a request, in the form of a signed letter, to the Airman Testing Standards Branch, AFS-630. The request must be accompanied by a copy of your Airman Knowledge Test Report and a legible photocopy of a government issued identification with your photograph and signature. Mail or fax this information to: (email requests are not accepted due to security issues.)

Federal Aviation Administration
Airman Testing Standards Branch, AFS-630
P.O. Box 25082
Oklahoma City, OK 73125
Or Fax to: 405 954-4748

Note: *If you have comments regarding test questions, test procedures, or supplemental material content, please e-Mail AFS-630 at: AFS630Comments@faa.gov.*

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/supplements/media/commercial_akts.pdf. Marking in the supplement book is prohibited; however, you may request a photo copy of any figure either before or during your exam. This marked or unmarked copy must be returned to the proctor at the end of the exam.

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

Topic, Content and Specific (TCS) codes listed in this guide are **not** a description of the Learning Statement Codes (LSC) found in the 'Learning Statement Reference Guide for Airman Knowledge Testing' document, but are a hierarchical sequence of classification codes placing 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).

References Appendix

The knowledge tests for Commercial Pilot exams are based on the following references.

14 CFR part 1 Definitions and Abbreviations
14 CFR part 119 Certification: Air Carriers and Commercial Operators
14 CFR part 23 Airworthiness Standards: Normal, Utility, Acrobatic and Commuter
14 CFR part 43 Maintenance, Preventive Maintenance, Rebuilding, and Alteration
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors
14 CFR part 91 General Operating and Flight Rules
49 CFR part 830 Notification and Reporting of Aircraft Accidents
AC 00-30 - Atmospheric Turbulence Avoidance
AC 00-45 - Aviation Weather Services
AC 00-6 - Aviation Weather
AC 20-103 – Aircraft Engine Crankshaft Failure
AC 60-22 - Aeronautical Decision Making
AC 61-67 - Stall Spin Awareness Training
AC 90-48 - Pilots` Role in Collision Avoidance
AC 91-13 - Cold Weather Operation of Aircraft
Aeronautical Information Manual
FAA-H-8083-1 - Aircraft Weight and Balance Handbook
FAA-H-8083-11 - Balloon Flying Handbook
FAA-H-8083-13 - Glider Flying Handbook
FAA-H-8083-15 - Instrument Flying Handbook
FAA-H-8083-2 - Risk Management Handbook
FAA-H-8083-21 - Helicopter Flying Handbook
FAA-H-8083-21 - Rotorcraft Flying Handbook
FAA-H-8083-25 - Pilot`s Handbook of Aeronautical Knowledge
FAA-H-8083-3A - Airplane Flying Handbook
FAA-H-8083-9 - Aviation Instructor Handbook
FAA-P-8740-34 - Powerlines and Thunderstorms - Balloon Safety Tips
IFR Low Altitude Chart
Practical Test Standards
Sectional Aeronautical Chart
U.S. Terminal Procedures

Note: *The latest revision of these references should be used.*

**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: A.

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)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT002 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Stall Speed
PLT004 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Fuel Used
Aircraft Performance	Charts	Rate of Climb vs PA and Temp
PLT005 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Weather	Meteorology	Temperature / Pressure
PLT006 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	L/D vs Gliding Distance and Altitude Lost
PLT008 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Landing Distance
PLT011 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Ground Roll
Aircraft Performance	Charts	Takeoff Distance
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Climb
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 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Wind Components
PLT014 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT015 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge 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 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aerodynamics	Principles of Flight	Angle of Attack
PLT018 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Aircraft Performance	Charts	Stall Speed vs Angle of Bank
PLT021 FAA-H-8083-1 - Weight and Balance Handbook 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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Weight and Balance	Center of Gravity	Computations

PLT022			
	AC 60-22 - Aeronautical Decision Making		
Human Factors	ADM		Process
Human Factors	ADM		Risk Management
PLT037			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports		Radar Weather Reports (SD)
PLT040			
	Sectional Aeronautical Chart		
Airspace	Cloud Clearances / Visibility		Class G
Airspace	Controlled		Class E
Airspace	Special Use		Alert Areas
PLT046			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Performance	Charts		L/D vs Gliding Distance and Altitude Lost
PLT056			
	FAA-H-8083-15 - Instrument Flying Handbook		
Navigation	Radio		Bearing / Radial Intercepts
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Radio		Bearing / Radial Intercepts
PLT059			
	Aeronautical Information Manual		
Weather	Aeronautical Weather Reports		METAR
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports		METAR
Weather	Meteorology		Clouds
PLT061			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports		PIREP
PLT064			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Pilotage		Charts
	Sectional Aeronautical Chart		
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			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Forecasts		Aerodrome Forecast (TAF)
PLT074			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Load Factor		Flight Envelope
PLT083			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Flight Operations	Approach		Airplane
PLT088			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Flight Instruments		Airspeed Indicator
PLT090			
	Aeronautical Information Manual		
Navigation	Radio		VOR
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Radio		Bearing Change Rule-of-Thumb Calculation
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
FAA-H-8083-2 - Risk Management Handbook		
Human Factors	ADM	Risk Management
Human Factors	Aeromedical	Physiological
PLT113		
14 CFR part 23		
Aircraft Performance	Limitations	Utility Category
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Performance	Limitations	Airspeeds
PLT115		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant	Combustion
PLT118		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Flight Instruments	Turn Indicators
PLT119		
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT120		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Performance	Atmospheric Effects	Turbulence
Weather	Hazardous	Turbulence
PLT121		
FAA-H-8083-1 - Weight and Balance Handbook		
Weight and Balance	Aircraft Loading	Definitions
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weight and Balance	Aircraft Loading	Limitations
PLT123		
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Aircraft Speed
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Performance	Charts	Takeoff Distance
PLT131		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight	Ground Effect
PLT140		
Aeronautical Information Manual		
Airport Operations	LAHSO	Responsibilities
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
Airport Operations	Marking / Signs	Taxiway
PLT161		
14 CFR part 91 General Operating and Flight Rules		
Airport Operations	Traffic Patterns	Standard Procedure
Regulations	14CFR Part 91	Aircraft Speed
Regulations	14CFR Part 91	Instrument and Equipment Requirements
Regulations	14CFR Part 91	Visual Flight Rules

PLT162		
14 CFR part 91 General Operating and Flight Rules		
Airspace	Controlled	Class B
Airspace	Controlled	Class C
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Airspace	Controlled	Class E
Sectional Aeronautical Chart		
Airspace	Controlled	Class E
PLT163		
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Visual Flight Rules
PLT164		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT165		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Flight Instruments	Altimeter
PLT167		
AC 00-6 - Aviation Weather		
Aircraft Systems	Flight Instruments	Altimeter
PLT168		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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
FAA-H-8083-3 - Airplane Flying Handbook		
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PLT512[AC 00-6 - Aviation Weather](#)

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[AC 00-6 - Aviation Weather](#)

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[Aeronautical Information Manual](#)

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[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

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[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

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**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)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT004 FAA-H-8083-21 - Helicopter Flying Handbook	Aircraft Performance	Rate of Climb vs PA and Temp
PLT011 FAA-H-8083-21 - Helicopter Flying Handbook	Aircraft Performance	Hover In / Out of Ground Effect
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Navigation	Calculations
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PLT014 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Navigation	Bearing Change Rule-of-Thumb Calculation
PLT018 FAA-H-8083-21 - Helicopter Flying Handbook	Aerodynamics	Flight Envelope
PLT021 FAA-H-8083-1 - Weight and Balance Handbook	Weight and Balance	Shifting Weight
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	Weight and Balance	Definitions
FAA-H-8083-21 - Helicopter Flying Handbook	Weight and Balance	Computations
PLT027 FAA-H-8083-21 - Helicopter Flying Handbook	Aerodynamics	Forces Acting on Aircraft
PLT037 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Weather	Radar Weather Reports (SD)
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PLT056 FAA-H-8083-15 - Instrument Flying Handbook	Navigation	Bearing / Radial Intercepts
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PLT059 Aeronautical Information Manual	Weather	METAR
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-21 - Rotorcraft Flying Handbook		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Flight Operations	Emergency Procedures	Flight Diversion
FAA-H-8083-3 - Airplane Flying Handbook		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	FAA-H-8083-21 - Helicopter Flying Handbook		
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	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Meteorology		Fog
PLT235			
	FAA-H-8083-21 - Helicopter Flying Handbook		
Aerodynamics	Principles of Flight		Helicopter Rotor
Aerodynamics	Principles of Flight		Helicopter Tailrotor
PLT236			
	FAA-H-8083-21 - Helicopter Flying Handbook		
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PLT237			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT240			
	FAA-H-8083-21 - Helicopter Flying Handbook		
Weight and Balance	Center of Gravity		Limitations
Weight and Balance	Center of Gravity		Stability
PLT242			
	FAA-H-8083-21 - Helicopter Flying Handbook		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT249			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Mixture Control
PLT251			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Combustion
PLT253			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Mixture Control
PLT259			
	FAA-H-8083-21 - Helicopter Flying Handbook		
Flight Operations	Emergency Procedures		Helicopter
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	AC 00-6 - Aviation Weather		
Weather	Meteorology		Fog
Weather	Meteorology		Fronts
PLT264			
	FAA-H-8083-21 - Helicopter Flying Handbook		
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PLT268			
	FAA-H-8083-21 - Helicopter Flying Handbook		
Aerodynamics	Performance		Helicopter
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PLT276			
	Aeronautical Information Manual		
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	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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PLT284			
	AC 00-45 - Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Wind and Temperature Aloft Forecast

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	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
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Charts / Maps		Surface Analysis Charts
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Weather	Aeronautical Weather Forecasts		Aerodrome Forecast (TAF)
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	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Load Factor		Variation
PLT332			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	Aeromedical		Hyperventilation
PLT333			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	Aeromedical		Night Vision
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	FAA-H-8083-21 - Helicopter Flying Handbook		
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	FAA-H-8083-21 - Helicopter Flying Handbook		
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PLT343			
	AC 91-13 - Cold Weather Operation of Aircraft		
Aircraft Systems	Powerplant		Preheating
	FAA-H-8083-21 - Helicopter Flying Handbook		
Aircraft Systems	Powerplant		Carburetor Heat
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Carburetor Heat
Aircraft Systems	Powerplant		Ignition System
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	FAA-H-8083-21 - Helicopter Flying Handbook		
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	49 CFR part 830 Notification and Reporting of Aircraft Accidents		
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49 CFR part 830 Notification and Reporting of Aircraft Accidents			
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14 CFR part 91 General Operating and Flight Rules			
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FAA-H-8083-21 - Helicopter Flying Handbook		
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
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FAA-H-8083-21 - Helicopter Flying Handbook		
Aircraft Systems	Transmission	Clutch
Aircraft Systems	Transmission	Freewheeling Unit
PLT472		
FAA-H-8083-21 - Helicopter Flying Handbook		
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
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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FAA-H-8083-21 - Helicopter Flying Handbook		
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Weather	Meteorology	Stability
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Aeronautical Information Manual		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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Weather	Meteorology	Stability
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Weather	Meteorology	Circulation
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14 CFR part 91 General Operating and Flight Rules		
Publications	Aeronautical Charts	Legend
AC 00-45 - Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Weather Forecast Offices (WFO)
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Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	TIBS
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Weather	Meteorology	Circulation
PLT518		
AC 00-6 - Aviation Weather		
Weather	Hazardous	Windshear
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Weather	Hazardous	Windshear
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14 CFR part 91 General Operating and Flight Rules		
Publications	Aeronautical Charts	Sectionals
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Publications	Aeronautical Charts	Sectionals

**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 cross-hatched portion of a Height vs. 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 dephase 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 - alcohol or drugs

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)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT002 FAA-H-8083-21 - Rotorcraft Flying Handbook		
Aircraft Performance	Charts	Height / Velocity
PLT011 FAA-H-8083-21 - Rotorcraft Flying Handbook		
Aircraft Performance	Charts	Takeoff Distance
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT021 FAA-H-8083-1 - Weight and Balance Handbook		
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Definitions
PLT037 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	Radar Weather Reports (SD)
PLT040 Sectional Aeronautical Chart		
Airspace	Controlled	Class E
Airspace	Special Use	Alert Areas
PLT059 Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds
PLT064 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Pilotage	Charts
Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT090 Aeronautical Information Manual		
Navigation	Radio	VOR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT101 Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT115 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant	Combustion
PLT129 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Performance	Charts	Takeoff Distance
PLT132 FAA-H-8083-21 - Helicopter Flying Handbook		
Aerodynamics	Load Factor	Definition
PLT141 Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT149 FAA-H-8083-21 - Rotorcraft Flying Handbook		
Flight Operations	Normal Procedures	Flight Control Positioning
PLT161 14 CFR part 91 General Operating and Flight Rules		
Airport Operations	Traffic Patterns	Standard Procedure

PLT162			
	14 CFR part 91 General Operating and Flight Rules		
Airspace	Controlled		Class B
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	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Flight Rules
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PLT168			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	AC 00-6 - Aviation Weather		
Weather	Meteorology		Stability
PLT189			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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PLT190			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	AC 00-6 - Aviation Weather		
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	AC 90-48 - Pilots' Role in Collision Avoidance		
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	Aeronautical Information Manual		
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	AC 00-6 - Aviation Weather		
Weather	Meteorology		Circulation
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	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	AC 00-6 - Aviation Weather		
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PLT208			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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	FAA-H-8083-3 - Airplane Flying Handbook		
Flight Operations	Emergency Procedures		Approach / Landing
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	FAA-H-8083-3 - Airplane Flying Handbook		
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	FAA-H-8083-3 - Airplane Flying Handbook		
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PLT237	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT242	FAA-H-8083-21 - Helicopter Flying Handbook		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT249	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Mixture Control
PLT251	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Combustion
PLT253	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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PLT276	Aeronautical Information Manual		
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Aircraft Systems	Powerplant		Mixture Control
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PLT350	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Propeller		Adjustable-Pitch
Aircraft Systems	Propeller		Fixed-Pitch
FAA-H-8083-3 - Airplane Flying Handbook			
Aircraft Systems	Propeller		Adjustable-Pitch

PLT351	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Propeller		Principles
PLT365	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Combustion
PLT373	FAA-H-8083-21 - Rotorcraft Flying Handbook		
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Regulations	14CFR Part 91		Limitations
PLT386	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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PLT399	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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Regulations	14CFR Part 91		Visual Flight Rules
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PLT426	14 CFR part 91 General Operating and Flight Rules		
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PLT431	14 CFR part 91 General Operating and Flight Rules		
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FAA-H-8083-21 - Rotorcraft Flying Handbook			
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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. Course lines and measurements on a sectional aeronautical chart are

- A—plotted true courses.
- B—plotted magnetic courses.
- C—plotted isogonic courses.

Answer: A.

Learning Statement: Interpret information on a Sectional Aeronautical Chart.

3. How is moisture reduced from a parcel of air?

- A— Evaporation and condensation.
- B— Evaporation and sublimation.
- C— Sublimation and condensation.

Answer: C.

Learning Statement: Recall weather conditions—temperature/moisture/dewpoint.

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)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT003 FAA-H-8083-1 - Weight and Balance Handbook	Weight and Balance	Center of Gravity
		Computations
PLT013 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Aircraft Performance	Charts
		Wind Components
PLT021 AC 61-67 - Stall Spin Awareness Training	Aircraft Performance	Limitations
		Effects of Exceeding
FAA-H-8083-1 - Weight and Balance Handbook	Weight and Balance	Center of Gravity
		Computations
	Weight and Balance	Center of Gravity
		Definitions
PLT040 Sectional Aeronautical Chart	Airspace	Cloud Clearances / Visibility
	Airspace	Controlled
		Class G
		Class E
PLT059 Aeronautical Information Manual	Weather	Aeronautical Weather Reports
		METAR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Weather	Meteorology
		Clouds
PLT060 FAA-H-8083-13 - Glider Flying Handbook	Aircraft Performance	Charts
	Aircraft Performance	Charts
		Distance Traveled vs Sink Rate
		Min Sink Speed / Rate of Sink
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	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
	Navigation	Pilotage
		Class G
		Charts
PLT074 FAA-H-8083-13 - Glider Flying Handbook	Aerodynamics	Load Factor
		Flight Envelope
PLT090 Aeronautical Information Manual	Navigation	Radio
		VOR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Navigation	Radio
		Bearing Change Rule-of-Thumb Calculation
PLT101 Sectional Aeronautical Chart	Navigation	Pilotage
		Charts
PLT104 AC 60-22 - Aeronautical Decision Making	Human Factors	ADM
	Human Factors	ADM
		Judgment
		Process
PLT113 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge	Aircraft Performance	Limitations
		Airspeeds

PLT114			
FAA-H-8083-13 - Glider Flying Handbook			
Airport Operations	Preflight		Aircraft Assembly
PLT124			
FAA-H-8083-13 - Glider Flying Handbook			
Aircraft Performance	Atmospheric Effects		Wind
PLT141			
Aeronautical Information Manual			
Airport Operations	Marking / Signs		Runway Incursions
PLT162			
Aeronautical Information Manual			
Airspace	Controlled		Class C
PLT163			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Visual Flight Rules
PLT164			
FAA-H-8083-13 - Glider Flying Handbook			
Aerodynamics	Performance		Turn Radius
PLT168			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aerodynamics	Principles of Flight		Angle of Attack
PLT170			
FAA-H-8083-13 - Glider Flying Handbook			
Flight Operations	Landing		Glider
PLT173			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Stability
PLT187			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Weather	Meteorology		Circulation
PLT205			
14 CFR part 91 General Operating and Flight Rules			
Human Factors	Aeromedical		Alcohol
PLT206			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Temperature / Pressure
PLT208			
FAA-H-8083-13 - Glider Flying Handbook			
Flight Operations	Landing		Off-Field
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Flight Operations	Emergency Procedures		Flight Diversion
PLT215			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aircraft Systems	Flight Instruments		Magnetic Compass
PLT216			
FAA-H-8083-13 - Glider Flying Handbook			
Aircraft Systems	Flight Instruments		Variometer
PLT219			
FAA-H-8083-13 - Glider Flying Handbook			
Flight Operations	Launch Procedures		Glider
FAA-H-8083-3 - Airplane Flying Handbook			
Flight Operations	Maneuvers		Basic
PLT222			
FAA-H-8083-13 - Glider Flying Handbook			
Flight Operations	Launch Procedures		Glider

PLT225			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Preflight Action
PLT237			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT238			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT240			
	FAA-H-8083-13 - Glider Flying Handbook		
Weight and Balance	Aircraft Loading		Limitations
PLT242			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT244			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Stability / Control		Glider Control Flutter
PLT248			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT257			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Airspeed		Angle of Attack
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
Flight Operations	Launch Procedures		Glider
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PLT261			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Thunderstorms
PLT272			
	AC 60-22 - Aeronautical Decision Making		
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PLT276			
	Aeronautical Information Manual		
Navigation	Radio		VOR
	FAA-H-8083-15 - Instrument Flying Handbook		
Navigation	Radio		VOR
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Performance		Glider
PLT304			
	FAA-H-8083-13 - Glider Flying Handbook		
Aircraft Performance	Limitations		Significance
Flight Operations	Launch Procedures		Glider
PLT305			
	FAA-H-8083-13 - Glider Flying Handbook		
Aerodynamics	Performance		Glider
PLT309			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aerodynamics	Load Factor		Variation

PLT326			
FAA-H-8083-13 - Glider Flying Handbook			
Aircraft Systems	Environmental		Oxygen
PLT332			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Human Factors	Aeromedical		Hyperventilation
PLT348			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aerodynamics	Principles of Flight		Turn Rate / Radius
PLT366			
49 CFR part 830 Notification and Reporting of Aircraft Accidents			
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14 CFR part 1 Definitions and Abbreviations			
Regulations	14CFR Part 1		Definitions
14 CFR part 91 General Operating and Flight Rules			
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PLT377			
14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Pilot Certificate
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Current Address
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14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
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PLT400			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Preflight Action
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14 CFR part 91 General Operating and Flight Rules			
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FAA-H-8083-13 - Glider Flying Handbook			
Flight Operations	Launch Procedures		Glider
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Glider Towing
PLT414			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Right-of-Way
PLT425			
14 CFR part 91 General Operating and Flight Rules			
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PLT438			
14 CFR part 91 General Operating and Flight Rules			
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PLT443			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Pilot Certificate

PLT444		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Flight Review
Regulations	14CFR Part 61	Pilot-in-Command
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	General
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FAA-H-8083-13 - Glider Flying Handbook		
Airport Operations	Preflight	Aircraft Assembly
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14 CFR part 91 General Operating and Flight Rules		
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PLT447		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Flight Controls / Secondary	Airplane
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AC 00-6 - Aviation Weather		
Flight Operations	Soaring Techniques	Ridge Soaring
FAA-H-8083-13 - Glider Flying Handbook		
Flight Operations	Collision Avoidance	Soaring Gliders
Flight Operations	Soaring Techniques	Ridge Soaring
Weather	Meteorology	Waves for Soaring
PLT475		
AC 00-6 - Aviation Weather		
Weather	Meteorology	Thunderstorms
PLT477		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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
FAA-H-8083-13 - Glider Flying Handbook		
Flight Operations	Soaring Techniques	Thermal Soaring
PLT495		
AC 00-6 - Aviation Weather		
Weather	Meteorology	Thunderstorms
PLT496		
FAA-H-8083-13 - Glider Flying Handbook		
Flight Operations	Launch Procedures	Glider
PLT501		
AC 00-6 - Aviation Weather		
Weather	Hazardous	Turbulence
Weather	Hazardous	Wind
PLT507		
Aeronautical Information Manual		
Navigation	Radio	VOR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Radio	VOR

PLT509[Aeronautical Information Manual](#)

Flight Operations	Wake Turbulence	Helicopter Vortices
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[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

Flight Operations	Wake Turbulence	Vortex Hazards
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PLT510[AC 00-6 - Aviation Weather](#)

Weather	Meteorology	Circulation
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PLT511[AC 00-6 - Aviation Weather](#)

Weather	Meteorology	Air Masses
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Weather	Meteorology	Fronts
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Weather	Meteorology	Stability
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[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

Weather	Meteorology	Circulation
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PLT515[AC 00-45 - Aviation Weather Services](#)

Weather	Aeronautical Weather Reports	HIWAS
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PLT516[AC 00-6 - Aviation Weather](#)

Weather	Meteorology	Circulation
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PLT518[AC 00-6 - Aviation Weather](#)

Weather	Hazardous	Windshear
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PLT527[14 CFR part 91 General Operating and Flight Rules](#)

Publications	Aeronautical Charts	Sectionals
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**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 system - components / operating principles / characteristics / leaks.

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)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Dead Reckoning	Calculations
PLT021 FAA-H-8083-11 - Balloon Flying Handbook		
Weight	Performance	Calculations
PLT022 AC 60-22 - Aeronautical Decision Making		
Human Factors	ADM	Process
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	ADM	Attitude Management
PLT030 FAA-H-8083-11 - Balloon Flying Handbook		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT040 14 CFR part 91 General Operating and Flight Rules		
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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	METAR
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PLT061 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	PIREP
PLT064 Sectional Aeronautical Chart		
Navigation	Dead Reckoning	Wind
Navigation	Pilotage	Charts
PLT072 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT101 Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT103 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	ADM	Attitude Management
PLT119 14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT130 FAA-H-8083-11 - Balloon Flying Handbook		
Aircraft Systems	Fuel / Oil	Hot Air Balloon / Propane
PLT141 Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Airport Operations	Marking / Signs	Taxiway

PLT161			
Aeronautical Information Manual			
Airspace	Controlled		Class D
Sectional Aeronautical Chart			
Airspace	Procedures		Mode C Veil
PLT162			
14 CFR part 91 General Operating and Flight Rules			
Airspace	Controlled		Class C
Regulations	14CFR Part 91		Instrument and Equipment Requirements
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14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Flight Rules
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FAA-H-8083-11 - Balloon Flying Handbook			
Flight Operations	Emergency Procedures		Balloon
Flight Operations	Landing		Balloon
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AC 00-6 - Aviation Weather			
Weather	Meteorology		Stability
PLT177			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Student Pilot
PLT178			
FAA-H-8083-11 - Balloon Flying Handbook			
Aircraft Systems	Fuel / Oil		Hot Air Balloon / Propane
PLT180			
FAA-H-8083-11 - Balloon Flying Handbook			
Aerodynamics	Principles of Flight		Balloon
PLT182			
FAA-H-8083-11 - Balloon Flying Handbook			
Aircraft Systems	Envelope		Balloon
PLT192			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Clouds
Weather	Meteorology		Moisture
Weather	Meteorology		Stability
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Weather	Meteorology		Stability
PLT194			
Aeronautical Information Manual			
Flight Operations	Collision Avoidance		Vision in Flight
PLT197			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Wind
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Weather	Meteorology		Circulation
PLT204			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Effective Communication		Barriers to Effective Communication
Fundamentals of Instruction	Effective Communication		Basic Elements
PLT208			
FAA-H-8083-11 - Balloon Flying Handbook			
Flight Operations	Emergency Procedures		Balloon
FAA-P-8740-34 - Powerlines and Thunderstorms - Bal			
Flight Operations	Emergency Procedures		Balloon
PLT211			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Critique / Evaluation		Testing
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FAA-H-8083-11 - Balloon Flying Handbook			
Flight Operations	Maneuvers		Balloon

PLT220	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT221	FAA-H-8083-11 - Balloon Flying Handbook		
Flight Operations	Landing		Balloon
Flight Operations	Takeoff		Balloon
<u>Powerline Excerpts - Balloon Federation of America</u>			
Flight Operations	Launch Procedures		Balloon
PLT225	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Preflight Action
PLT226	AC 00-6 - Aviation Weather		
Weather	Meteorology		Fog
PLT227	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Instructor Responsibilities		Student Piloting Ability Evaluation
PLT229	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Professionalism		Acceptance of the Student
Fundamentals of Instruction	Professionalism		Code of Conduct
PLT231	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Student Emotional Reactions
Fundamentals of Instruction	Learning Process		Laws of Learning
PLT232	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Instructor Responsibilities		Providing Adequate Instruction
PLT233	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Defense Mechanisms
PLT251	<u>Balloon Digest - Balloon Federation of America</u>		
Aircraft Systems	Fuel / Oil		Hot Air Balloon / Propane
FAA-H-8083-11 - Balloon Flying Handbook			
Aircraft Systems	Fuel / Oil		Hot Air Balloon / Propane
Flight Operations	Emergency Procedures		Balloon Fuel Management
PLT253	FAA-H-8083-11 - Balloon Flying Handbook		
Aircraft Systems	Fuel / Oil		Hot Air Balloon / Propane
PLT263	AC 00-6 - Aviation Weather		
Weather	Meteorology		Fog
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PLT270	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Human Needs
PLT284	AC 00-45 - Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Wind and Temperature Aloft Forecast
PLT286	AC 00-45 - Aviation Weather Services		
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PLT287	AC 00-45 - Aviation Weather Services		
Weather	Charts / Maps		Surface Analysis Charts
PLT288	Aeronautical Information Manual		
Weather	Aeronautical Weather Forecasts		Aerodrome Forecast (TAF)
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Weather	Aeronautical Weather Forecasts		Aerodrome Forecast (TAF)

PLT289i			
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Weather	Charts / Maps		Weather Depiction Charts
PLT290			
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Weather	Aeronautical Weather Forecasts		Inflight Aviation Weather Advisories
PLT291			
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Weather	Aeronautical Weather Forecasts		Aviation Area Forecasts (FA)
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
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Aeronautical Information Manual			
Weather	Aeronautical Weather Forecasts		Inflight Aviation Weather Advisories
PLT295			
FAA-H-8083-9 - Aviation Instructor Handbook			
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			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Learning Process		Characteristics of Learning
Fundamentals of Instruction	Learning Process		Levels of Learning
PLT308			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Learning Process		Definition of Learning
Fundamentals of Instruction	Learning Process		Perceptions
PLT323			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		General
PLT332			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Human Factors	Aeromedical		Hyperventilation
PLT346			
FAA-H-8083-11 - Balloon Flying Handbook			
Aircraft Systems	Flight Controls / Primary		Balloon
PLT366			
49 CFR part 830 Notification and Reporting of Aircraft Accidents			
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14 CFR part 91 General Operating and Flight Rules			
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Regulations	14CFR Part 91		Maintenance
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
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14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		General

PLT393			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Restricted and Prohibited Areas
Aeronautical Information Manual			
Airspace	Controlled		Low Altitude Airways
PLT395			
14 CFR part 1 Definitions and Abbreviations			
Regulations	14CFR Part 1		Definitions
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Pilot-in-Command
PLT407			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Student Pilot
PLT409			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Logbook
PLT411			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Flight Instructor
PLT419			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Flight Instructor
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Instructor Responsibilities		Minimizing Student Frustrations
PLT425			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Maintenance
PLT426			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Maintenance
PLT427			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Medical Certificates
PLT431			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Flight Rules
PLT438			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT443			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Pilot Certificate
PLT444			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Flight Review
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		General
PLT446			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Maintenance
PLT448			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Pilot Certificate
PLT454			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Maintenance
PLT457			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Student Pilot
PLT473			
FAA-H-8083-11 - Balloon Flying Handbook			
Aircraft Systems	Flight Controls / Secondary		Balloon
FAA-P-8740-34 - Powerlines and Thunderstorms - Bal			
Aircraft Systems	Flight Controls / Secondary		Balloon

PLT475			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Thunderstorms
PLT482			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Critique / Evaluation		Instructor as a Critic
Fundamentals of Instruction	Critique / Evaluation		Quizzing
PLT487			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Teaching Methods		Demonstration-Performance Method
PLT488			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Teaching Methods		Guided Discussion Method
Fundamentals of Instruction	Teaching Methods		Lecture Method
PLT489			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Teaching Methods		Organizing Material
PLT490			
FAA-H-8083-9 - Aviation Instructor Handbook			
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			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Planning Instructional Activity		Course of Training
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 part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		ATC Transponder / Altitude Reporting Equipment
PLT505			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Instructional Aids		Use
Fundamentals of Instruction	Instructional Aids		Visual
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
PLT527		
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Publications	Aeronautical Charts	Sectionals

**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. Is a check ride required for the removal of the airborne heater restriction from an existing hot air balloon pilot's certificate?

- A— Yes, a full check ride for certification is required in accordance with the regulations.
- B— Yes, a short check ride is required involving only the gas balloon maneuvers per the matrix in the Practical Test Standards.
- C— No, the limitations may be removed when the person obtains the aeronautical experience in a gas balloon and receives a log book endorsement.

Answer: C.

Learning Statement: Recall regulations - privileges / limitations of pilot certificates.

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. 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—GAS KNOWLEDGE TESTS (CBG)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Dead Reckoning	Calculations
PLT030 FAA-H-8083-11 - Balloon Flying Handbook		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT040 14 CFR part 91 General Operating and Flight Rules		
Airspace	Controlled	Class C
PLT059 Aeronautical Information Manual		
Weather	Aeronautical Weather Reports	METAR
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	METAR
PLT061 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT119 14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT124 FAA-H-8083-11 - Balloon Flying Handbook		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT141 Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT162 14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT180 FAA-H-8083-11 - Balloon Flying Handbook		
Aerodynamics	Principles of Flight	Balloon
PLT182 14 CFR part 43 Maintenance, Preventive Maintenance, Rebuilding, and Alteration		
Aircraft Systems	Envelope	Balloon
PLT183 FAA-H-8083-11 - Balloon Flying Handbook		
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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Meteorology	Circulation
PLT204 FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Effective Communication	Basic Elements

PLT205			
	14 CFR part 91 General Operating and Flight Rules		
Human Factors	Aeromedical		Alcohol
PLT208			
	FAA-P-8740-34 - Powerlines and Thunderstorms - Balloon		
Flight Operations	Emergency Procedures		Balloon
PLT211			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Critique / Evaluation		Testing
PLT220			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT221			
	FAA-H-8083-11 - Balloon Flying Handbook		
Flight Operations	Takeoff		Balloon
PLT226			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Fog
PLT231			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Student Emotional Reactions
Fundamentals of Instruction	Learning Process		Laws of Learning
PLT232			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Instructor Responsibilities		Providing Adequate Instruction
PLT233			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Defense Mechanisms
PLT263			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Fronts
PLT284			
	AC 00-45 - Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Wind and Temperature Aloft Forecast
PLT287			
	AC 00-45 - Aviation Weather Services		
Weather	Charts / Maps		Surface Analysis Charts
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			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Techniques-Flight Instruction		Obstacles to Learning during Flight Instruction
PLT301			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Temperature
PLT306			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Learning Process		Characteristics of Learning
Fundamentals of Instruction	Learning Process		Levels of Learning
PLT308			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Learning Process		Definition of Learning
Fundamentals of Instruction	Learning Process		Perceptions
PLT330			
	Aeronautical Information Manual		
Human Factors	Aeromedical		Hypoxia

PLT332			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	Aeromedical		Hyperventilation
PLT366			
	49 CFR part 830 Notification and Reporting of Aircraft Accidents		
Regulations	NTSB Part 830		Accident Report
Regulations	NTSB Part 830		Incident Report
PLT374			
	14 CFR part 1 Definitions and Abbreviations		
Regulations	14CFR Part 1		Definitions
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Maintenance
PLT377			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Maintenance
PLT378			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Maintenance
PLT384			
	FAA-H-8083-11 - Balloon Flying Handbook		
Flight Operations	Launch Procedures		Balloon
PLT387			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Current Address
PLT389			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Special Flight Operations
PLT399			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Pilot-in-Command
PLT407			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Flight Instructor
Regulations	14CFR Part 61		Student Pilot
PLT411			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Flight Instructor
PLT419			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Flight Instructor
PLT431			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		General
PLT438			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT444			
	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Flight Review
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		General
PLT454			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		Maintenance
PLT473			
	FAA-H-8083-11 - Balloon Flying Handbook		
Aircraft Systems	Flight Controls / Secondary		Balloon
	FAA-P-8740-34 - Powerlines and Thunderstorms - Bal		
Aircraft Systems	Flight Controls / Secondary		Balloon
PLT475			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Thunderstorms
PLT489			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Teaching Methods		Organizing Material

PLT490[FAA-H-8083-9 - Aviation Instructor Handbook](#)

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

PLT491[FAA-H-8083-9 - Aviation Instructor Handbook](#)

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
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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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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)
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[Aeronautical Information Manual](#)

Weather	Aeronautical Weather Forecasts	Inflight Aviation Weather Advisories
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PLT517[AC 00-6 - Aviation Weather](#)

Weather	Meteorology	Circulation
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PLT518[AC 00-6 - Aviation Weather](#)

Weather	Hazardous	Windshear
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[Aeronautical Information Manual](#)

Weather	Hazardous	Windshear
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PLT527[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

Publications	Aeronautical Charts	Sectionals
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**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—at equilibrium.
- B—heavy and flown dynamically positive.
- C—heavy by the bow and light by the stern.

Answer: A.

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—3 °.
- B—6 °.
- C—10 °.

Answer: C.

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

3. Airspace designated as Class G is that airspace where

- A— ATC controls only IFR flights.
- B— a flight plan is required for operations in less than VMC.
- C— ATC does not control air traffic.

Answer: C.

Learning Statement: Recall airspace requirements - operations.

4. When under stress, normal individuals usually react

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

Answer: C.

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

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Dead Reckoning	Calculations
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT037 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	METAR
Weather	Meteorology	Clouds
PLT061 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Reports	PIREP
PLT064 Aeronautical Information Manual		
Airspace	Controlled	Class D
Sectional Aeronautical Chart		
Airspace	Uncontrolled	Class G
Navigation	Pilotage	Charts
PLT072 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Forecasts	Aerodrome Forecast (TAF)
PLT080 Aeronautical Information Manual		
Instrument Procedures	Approach Procedures	STAR and FMSP
PLT083 FAA-H-8083-15 - Instrument Flying Handbook		
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
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Navigation	Radio	Bearing Change Rule-of-Thumb Calculation
PLT101 Sectional Aeronautical Chart		
Navigation	Pilotage	Charts
PLT118 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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 part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT163			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Flight Rules
Regulations	14CFR Part 91		Visual Flight Rules
PLT189			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
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			
FAA-H-8083-9 - Aviation Instructor Handbook			
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
PLT220			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Night
PLT221			
Airship Aerodynamics Technical Manual			
Flight Operations	Landing		Airship
Flight Operations	Launch Procedures		Airship
PLT224			
Aeronautical Information Manual			
Navigation	Radio		VOR
PLT225			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Preflight Action
PLT226			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Fog
PLT229			
FAA-H-8083-9 - Aviation Instructor Handbook			
Fundamentals of Instruction	Professionalism		Acceptance of the Student
Fundamentals of Instruction	Professionalism		Code of Conduct

PLT231			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Student Emotional Reactions
Fundamentals of Instruction	Learning Process		Laws of Learning
PLT232			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Instructor Responsibilities		Providing Adequate Instruction
PLT233			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Human Behavior		Defense Mechanisms
PLT244			
	Airship Aerodynamics Technical Manual		
Aerodynamics	Flight Characteristics		Airship Controllability
PLT249			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Mixture Control
PLT261			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Thunderstorms
PLT276			
	Aeronautical Information Manual		
Navigation	Radio		VOR
	FAA-H-8083-15 - Instrument Flying Handbook		
Navigation	Radio		VOR
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
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			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Weather	Aeronautical Weather Forecasts		Aerodrome Forecast (TAF)
PLT289			
	AC 00-45 - Aviation Weather Services		
Weather	Charts / Maps		Weather Depiction Charts
PLT293			
	FAA-H-8083-15 - Instrument Flying Handbook		
Instrument Procedures	Departure		Responsibilities
PLT294			
	Aeronautical Information Manual		
Weather	Aeronautical Weather Forecasts		Inflight Aviation Weather Advisories
PLT295			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Techniques-Flight Instruction		Obstacles to Learning during Flight Instruction
PLT298			
	14 CFR part 91 General Operating and Flight Rules		
Instrument Procedures	En Route		VFR on Top
PLT301			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Temperature
PLT306			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Learning Process		Characteristics of Learning
PLT308			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Learning Process		Perceptions
PLT323			
	14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91		General
PLT332			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Human Factors	Aeromedical		Hyperventilation

PLT333			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Human Factors	Aeromedical		Night Vision
FAA-H-8083-3 - Airplane Flying Handbook			
Flight Operations	Night		Orientation & Navigation
PLT343			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aircraft Systems	Powerplant		Combustion
Aircraft Systems	Powerplant		Mixture Control
PLT344			
AC 00-6 - Aviation Weather			
Weather	Meteorology		Fronts
Weather	Meteorology		Precipitation
PLT350			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aircraft Systems	Propeller		Adjustable-Pitch
PLT351			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aircraft Systems	Propeller		Principles
PLT365			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Aircraft Systems	Powerplant		Combustion
PLT366			
49 CFR part 830 Notification and Reporting of Aircraft Accidents			
Regulations	NTSB Part 830		Accident Report
Regulations	NTSB Part 830		Incident Report
PLT374			
14 CFR part 1 Definitions and Abbreviations			
Regulations	14CFR Part 1		Definitions
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Maintenance
PLT377			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Instrument and Equipment Requirements
PLT380			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Flight Rules
PLT382			
14 CFR part 91 General Operating and Flight Rules			
Instrument Procedures	Approach Procedures		Landing Minima
PLT387			
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
Regulations	14CFR Part 61		Current Address
PLT389			
14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Special Flight Operations
PLT391			
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	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Instructor Responsibilities		Minimizing Student Frustrations
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	14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61		Flight Review
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Regulations	14CFR Part 91		Visual Flight Rules
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	Airship Aerodynamics Technical Manual		
Aircraft Systems	Flight Controls / Secondary		Airship
PLT475			
	AC 00-6 - Aviation Weather		
Weather	Meteorology		Thunderstorms
PLT478			
	FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Aircraft Systems	Powerplant		Ignition System
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	FAA-H-8083-9 - Aviation Instructor Handbook		
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	FAA-H-8083-9 - Aviation Instructor Handbook		
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	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Teaching Methods		Organizing Material
PLT490			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Learning Process		Laws of Learning
PLT491			
	FAA-H-8083-9 - Aviation Instructor Handbook		
Fundamentals of Instruction	Teaching Methods		Lecture Method
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	AC 00-6 - Aviation Weather		
Weather	Meteorology		Temperature
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	AC 00-6 - Aviation Weather		
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Weather	Hazardous		Turbulence
PLT507			
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
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PLT508			
14 CFR part 91 General Operating and Flight Rules			
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Regulations	14CFR Part 91		Instrument and Equipment Requirements
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AC 00-45 - Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Weather Forecast Offices (WFO)
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Weather	Aeronautical Weather Forecasts		Inflight Aviation Weather Advisories
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AC 00-6 - Aviation Weather			
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PLT518			
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Weather	Hazardous		Windshear
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14 CFR part 91 General Operating and Flight Rules			
Publications	Aeronautical Charts		Sectionals
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge			
Publications	Aeronautical Charts		Sectionals

**Commercial Pilot Canadian Conversion—Airplane (CCP)
Sample Questions**

COMMERCIAL PILOT CANADIAN CONVERSION—AIRPLANE (CCP)

1. Which statement is true about Isogonic lines?

A—Isogonic lines are lines of equal variation.

B—Isogonic lines do not vary for different headings of the same aircraft.

C—Varies over time as the Agonic line shifts.

Answer: A.

Learning Statement: Recall navigation - true north / magnetic north.

2. Who has the final authority to accept or decline any `land and hold short` (LAHSO) clearance?

A—ATC approach controller.

B—ATC tower controller.

C—Pilot-in-command.

Answer: C.

Learning Statement: Recall regulations - pilot-in-command authority / responsibility.

3. (Refer to FAA-CT-8080-1D, Figure 64.) If cleared for an intersection takeoff on runway 26, you see this sign at the intersection hold short position. Which way should you turn when taxiing onto the runway?

A—Left.

B—Right.

C—Need more information.

Answer: B.

Learning Statement: Recall airport operations - markings / signs / lighting.

4. 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.

5. GIVEN:

Wingtip bearing change	15°
Elapsed time between bearing change	7.5 min
True airspeed	85 kts
Rate of fuel consumption	9.6 gal/hr
The time, distance, and fuel required to fly to the station is	

A— 30 minutes; 42.5 miles; 4.80 gallons.

B— 32 minutes; 48 miles; 5.58 gallons.

C— 48 minutes; 48 miles; 4.58 gallons.

Answer: A.

Learning Statement: Calculate aircraft performance - time/speed/distance/course/fuel/wind

LIST OF REFERENCE MATERIALS SPECIFIC TO THE COMMERCIAL PILOT CANADIAN CONVERSION—AIRPLANE KNOWLEDGE TEST (CCP)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT040		
Sectional Aeronautical Chart		
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Airspace	Controlled	Class E
PLT044		
14 CFR part 91 General Operating and Flight Rules		
Airspace	Controlled	Class D
PLT064		
Aeronautical Information Manual		
Airspace	Controlled	Class D
PLT085		
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Flight Rules
PLT101		
Sectional Aeronautical Chart		
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Aeronautical Information Manual		
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Airport Operations	Marking / Signs	Runway Incursions
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PLT162		
14 CFR part 91 General Operating and Flight Rules		
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PLT220		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Night
PLT225		
14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Preflight Action
PLT290		
Aeronautical Information Manual		
Weather	Aeronautical Weather Forecasts	Inflight Aviation Weather Advisories

PLT366		
49 CFR part 830 Notification and Reporting of Aircraft Accidents		
Regulations	NTSB Part 830	Accident Report
Regulations	NTSB Part 830	Definitions
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PLT371		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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PLT374		
14 CFR part 1 Definitions and Abbreviations		
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14 CFR part 91 General Operating and Flight Rules		
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49 CFR part 830 Notification and Reporting of Aircraft Accidents		
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PLT380		
14 CFR part 91 General Operating and Flight Rules		
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Regulations	14CFR Part 91	General
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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Regulations	NTSB Part 830	Notification
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Regulations	14CFR Part 91	Maintenance
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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14 CFR part 91 General Operating and Flight Rules		
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14 CFR part 91 General Operating and Flight Rules		
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Medical Certificates
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Pilot-in-Command
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14 CFR part 91 General Operating and Flight Rules		
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Regulations	14CFR Part 61	Complex Endorsement
PLT450		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
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14 CFR part 91 General Operating and Flight Rules		
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PLT463		
14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Drugs and/or Alcohol
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14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Flight Crewmembers at Station
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PLT466		
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Regulations	14CFR Part 1	Definitions

PLT467

[14 CFR part 91 General Operating and Flight Rules](#)

Regulations 14CFR Part 91
Regulations 14CFR Part 91

Flight Rules
Visual Flight Rules

PLT497

[14 CFR part 91 General Operating and Flight Rules](#)

Regulations 14CFR Part 91

ATC Transponder / Altitude Reporting Equipment

PLT502

[FAA-H-8083-3 - Airplane Flying Handbook](#)

Airport Operations Lighting

Obstruction

PLT508

[14 CFR part 91 General Operating and Flight Rules](#)

Navigation Radio
Regulations 14CFR Part 91

VOR
Preflight Action

PLT515

[Aeronautical Information Manual](#)

Weather Aeronautical Weather Reports

TIBS

**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: A.

Learning Statement: Recall approach/landing/taxiing techniques.

- 3. 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.

- 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

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT040 Sectional Aeronautical Chart		
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PLT041 14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Flight Rules
PLT044 14 CFR part 91 General Operating and Flight Rules		
Airspace	Controlled	Class D
PLT053 14 CFR part 91 General Operating and Flight Rules		
Instrument Procedures	Flight Planning	Flight Plan
PLT083 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Flight Operations	Approach	Airplane
PLT085 14 CFR part 91 General Operating and Flight Rules		
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PLT113 14 CFR part 23		
Aircraft Performance	Limitations	Utility Category
PLT119 14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Instrument and Equipment Requirements
PLT123 14 CFR part 91 General Operating and Flight Rules		
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PLT141 Aeronautical Information Manual		
Airport Operations	Marking / Signs	Runway Incursions
PLT161 14 CFR part 91 General Operating and Flight Rules		
Airport Operations	Traffic Patterns	Standard Procedure
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Regulations	14CFR Part 91	Instrument and Equipment Requirements
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PLT162 14 CFR part 91 General Operating and Flight Rules		
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Airspace	Controlled	Class C
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Regulations	14CFR Part 91	Flight Rules
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PLT220 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors		
Regulations	14CFR Part 61	Night
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Instrument Procedures	Flight Planning	Flight Plan
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49 CFR part 830 Notification and Reporting of Aircraft Accidents			
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14 CFR part 91 General Operating and Flight Rules			
Regulations	14CFR Part 91		Special Flight Operations
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14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors			
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14 CFR part 91 General Operating and Flight Rules			
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14 CFR part 91 General Operating and Flight Rules			
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Regulations	14CFR Part 1	Definitions
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Regulations	14CFR Part 61	Pilot-in-Command
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14 CFR part 91 General Operating and Flight Rules		
Regulations	14CFR Part 91	Preflight Action
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge		
Regulations	14CFR Part 91	Aircraft Documents
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49 CFR part 830 Notification and Reporting of Aircraft Accidents		
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**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: C.

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 - alcohol or drugs.

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 C.

Learning Statement: Recall regulations preventive maintenance.

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

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