

# INSTRUMENT RATING KNOWLEDGE TEST GUIDE



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U.S. Department of Transportation  
Federal Aviation Administration



## INTRODUCTION

FAA-G-8082-13G, Commercial Pilot Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes FAA-G-8082-5F, dated February 2012.

| <b>TEST NAME</b>                                       | <b>TEST CODE</b> |
|--|------------------|
| Instrument Rating—Airplane                             | IRA              |
| Instrument Rating—Helicopter                           | IRH              |
| Instrument Rating—Foreign Pilot                        | IFP              |
| Flight Instructor Instrument—Airplane                  | FII              |
| Flight Instructor Instrument—Helicopter                | FIH              |
| Flight Instructor Instrument—Airplane (Added Rating)   | AIF              |
| Flight Instructor Instrument—Helicopter (Added Rating) | HIF              |
| Ground Instructor—Instrument                           | IGI              |

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

Comments may be e-mailed to [AFS630Comments@faa.gov](mailto:AFS630Comments@faa.gov).

## KNOWLEDGE TEST ELIGIBILITY REQUIREMENTS

If you are pursuing an instrument rating, you should review the appropriate sections of Title 14 of the Code of Federal Regulations (14 CFR) part 61 for instrument rating requirements.

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

[http://www.faa.gov/training\\_testing/testing/airmen/media/testing\\_matrix.pdf](http://www.faa.gov/training_testing/testing/airmen/media/testing_matrix.pdf)

## KNOWLEDGE AREAS ON THE TESTS

To be eligible to take an instrument rating knowledge test, you must have received ground instruction, or have logged home study in all the following areas:

- The 14 CFR parts that apply to flight under instrument flight rules (IFR) conditions, the Aeronautical Information Manual (AIM), and the IFR air traffic system and procedures.
- Dead reckoning appropriate to IFR navigation using various navigation systems. The use of IFR Enroute and approach procedure charts.
- The procurement and use of aviation weather reports and forecasts, and the elements of forecasting weather trends on the basis of that information and personal observation of weather conditions.
- The safe and efficient operation of aircraft, as appropriate, under instrument weather conditions.

The Instrument Flight Instructor and Instrument Ground Instructor Knowledge Tests cover the same subject areas. The instructor applicant is expected to have an in-depth knowledge of these areas in order to test.

## DESCRIPTIONS OF THE TESTS

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

The following tests each contain 60 questions, and you are allowed 2 hours and 30 minutes to complete each test.

- Instrument Rating—Airplane
- Instrument Rating—Helicopter

The following tests each contain 50 questions, and you are allowed 2 hours and 30 minutes to complete each test.

- Instrument Flight Instructor—Airplane
- Instrument Flight Instructor—Helicopter
- Ground Instructor—Instrument
- Instrument Rating—Foreign Pilot

All added instrument instruction rating tests contain 20 questions, and you are allowed 1 hour to complete each test.

## TEST REGISTRATION

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

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

## APPLICANT IDENTIFICATION AND TEST AUTHORIZATION

The next step in taking a knowledge test is providing proper identification. You should determine what knowledge test prerequisites are necessary before going to the computer-testing center. Your instructor or local FAA Flight Standards District Office (FSDO) may advise you regarding the documentation required to be presented at the testing facility. Testing center personnel will not begin the test until your identification and eligibility is verified.

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

## **TEST TAKING TIPS**

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

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

- Carefully read the instructions given with the test.
- Answer each question in accordance with the latest regulations and guidance publications.
- Read each question carefully before looking at the answer options. You should clearly understand the problem before attempting to solve it.
- After formulating an answer, determine which answer option corresponds with your answer. The answer you choose should completely resolve the problem.
- From the answer options given, it may appear that there is more than one possible answer; however, there is only one answer that is correct and complete. The other answers are either incomplete, erroneous, or derived from popular misconceptions.
- If a certain question is difficult for you, it is best to mark it for review and proceed to the next question. After you answer the less difficult questions, return to those you marked for review and answer them. The review marking procedure will be explained to you prior to starting the test. Although the computer should alert you to unanswered questions, make sure every question has an answer recorded. This procedure will enable you to use the available time to maximum advantage.
- When solving a calculation problem, select the answer that most nearly matches your solution. The problem has been checked by various individuals and with different types of calculators; therefore, if you have solved it correctly, your answer will be closer to the correct answer than any of the other choices.

## **USE OF TEST AIDS AND MATERIALS**

You may use aids, reference materials, and test materials within the guidelines listed below, as long as 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:

[www.faa.gov/training\\_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf](http://www.faa.gov/training_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf)

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

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

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

## AIRMAN KNOWLEDGE TEST REPORTS

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

The Airman Knowledge Test Report must be presented to the examiner prior to taking the practical test. During the oral portion of the practical test, the examiner is required to evaluate the noted areas of deficiency.

Should you require a duplicate Airman Knowledge Test Report due to loss or destruction of the original, send a signed request accompanied by a check or money order for \$1.00, payable to the FAA. Send the request to:

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

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

## TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

Most of the current Flight Standards Service airman training and testing publications can be obtained in electronic format from the FAA Website, [www.faa.gov](http://www.faa.gov). The training and testing publications and general

information can be found on the opening page of that Website under the Training and Testing tab. If a publication is not available in electronic format, there are instructions for obtaining paper copies. Information found on the Website includes the following:

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

### **Advisory Circulars**

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

### **Airworthiness Directives**

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

### **Code of Federal Regulations**

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

### **Computer Testing Supplements**

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

### **Knowledge Test Centers**

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

The following is a list of the ODA holders authorized to give FAA airman knowledge tests. This list should be helpful in case you choose to register for a test or simply want more information.



 [Computer Assisted Testing Service \(CATS\)](#)

777 Mariners Island Blvd., Suite 200  
San Mateo, CA 94404

**Applicant inquiry and test registration: 1-800-947-4228**  
From outside the U.S. (650) 259-8550

 [PSI](#)

16821 SE McGillivray Blvd., Suite 201  
Vancouver, WA 98683

**Applicant inquiry and test registration: 1-800-211-2753 or 1-800-211-2754**  
From outside the U.S. (360) 896-9111

## Knowledge Test Questions

Sample questions are located in the Airman Knowledge Test Questions section of the Website and represent the types of questions included in the actual test banks. Practicing these questions will help you become familiar with similar questions on the airman knowledge tests. The knowledge test is not designed to intimidate any prospective airman; it is designed to measure an applicant's understanding of the rules, regulations and knowledge areas required to receive an FAA certificate.

## Knowledge Test Statistics

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

## Practical Test Standards

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

## Training Handbooks

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

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

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



**Instrument Rating—Airplane (IRA)  
Sample Questions**

## INSTRUMENT RATING—AIRPLANE (IRA)

**1. What is the relationship between centrifugal force and the horizontal lift component in a coordinated turn?**

- A—Horizontal lift exceeds centrifugal force.
- B—Horizontal lift and centrifugal force are equal.
- C—Centrifugal force exceeds horizontal lift.

*Answer: B.*

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

**2. What information does a Mach meter present?**

- A—The ratio of aircraft true airspeed to the speed of sound.
- B—The ratio of aircraft indicated airspeed to the speed of sound.
- C—the ratio of aircraft equivalent airspeed, corrected for installation error, to the speed of sound.

*Answer: A.*

*Learning Statement: Interpret a MACH meter reading.*

**3. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter**

- A—on 29.92 inches  $H_g$ .
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter-settings/setting procedures.*

**4. How can you obtain the pressure altitude on flights below 18,000 feet?**

- A—Set your altimeter to 29.92 inches  $H_g$  and read the pressure altitude on the instrument face.
- B—Set your altimeter to the field elevation and read the pressure altitude from the Kollsman window.
- C—Contact an ATC facility FSS and request the current pressure altitude for the area.

*Answer: A.*

*Learning Statement: Interpret altimeter-readings/settings.*

**5. If while in level flight, it becomes necessary to use an alternate source of static pressure vented inside the airplane, which of the following variations in instrument indications should the pilot expect?**

- A—The altimeter will read lower than normal, airspeed lower than normal, and the VSI will momentarily show a descent.
- B—the altimeter will read higher than normal, airspeed greater than normal, and the VSI will momentarily show a climb.
- C—The altimeter will read lower than normal, airspeed greater than normal, and the VSI will momentarily show a climb and then a descent.

*Answer: B.*

*Learning Statement: Recall pitot-static system-components/operating principles/characteristics.*

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE INSTRUMENT RATING—AIRPLANE (IRA)

| <i>Topic</i>  | <i>Content</i>               | <i>Specific</i>             |
|---|------------------------------|-----------------------------|
| <b>PLT002</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures | En Route                     | CAS Calculations            |
| <b>PLT004</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Departure Climb             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures                  | Flight Planning              | Departure Climb             |
| <a href="#">U.S. Terminal Procedures</a><br>Instrument Procedures   | Flight Planning              | Departure Climb             |
| <b>PLT008</b><br><a href="#">Instrument Procedures Handbook, FAA-H-8261-1</a><br>Flight Operations                  | Approach                     | Descent Rate                |
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                      | Pitot/Static                 | Temperature                 |
| Instrument Procedures   | Flight Planning              | Enroute                     |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures                  | En Route                     | CAS Calculations            |
| Instrument Procedures   | Flight Planning              | Enroute                     |
| <b>PLT023</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather  | Meteorology                  | Pressure                    |
| <b>PLT026</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Aeronautical Weather Reports | METAR                       |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | En Route                     | Altitudes                   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                                  | En Route                     | Altitudes                   |
| <b>PLT041</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                   |
| <a href="#">Aeronautical Information Manual</a><br>Instrument Procedures  | En Route                     | Altimeter Settings          |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                   |
| Instrument Procedures   | Basic Flight Instruments     | Altimeter                   |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems                       | Pitot/Static                 | Altimeter                   |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations                              | Marking / Signs              | Runway                      |
| Instrument Procedures   | Air Traffic Control          | ATC Clearance               |
| Instrument Procedures   | Communications               | Terminology                 |
| <b>PLT049</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation                            | Radio                        | ILS                         |
| <b>PLT051</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Charts/Maps                  | Convective Outlook Charts   |
| <b>PLT052</b><br><a href="#">U.S. Terminal Procedures</a><br>Flight Operations                                      | Emergency Procedures         | Lost Communications         |
| Instrument Procedures   | Departure                    | Departure Procedures Charts |
| Instrument Procedures   | Flight Planning              | Departure Climb             |
| <b>PLT053</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Flight Plan                 |

**PLT058**[IFR Enroute Low Altitude Chart](#)

|                       |                     |              |
|-----------------------|---------------------|--------------|
| Instrument Procedures | En Route            | VFR on Top   |
| Navigation            | Radio               | VOR          |
| Publications          | Aeronautical Charts | IFR En Route |

**PLT059**[AC 00-45 Aviation Weather Services](#)

|         |                              |       |
|---------|------------------------------|-------|
| Weather | Aeronautical Weather Reports | METAR |
|---------|------------------------------|-------|

**PLT061**[AC 00-45 Aviation Weather Services](#)

|         |                              |       |
|---------|------------------------------|-------|
| Weather | Aeronautical Weather Reports | PIREP |
|---------|------------------------------|-------|

**PLT068**[AC 00-45 Aviation Weather Services](#)

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

**PLT075**[AC 00-45 Aviation Weather Services](#)

|         |             |                          |
|---------|-------------|--------------------------|
| Weather | Charts/Maps | Weather Depiction Charts |
|---------|-------------|--------------------------|

**PLT076**[AC 00-45 Aviation Weather Services](#)

|         |                                |  |
|---------|--------------------------------|--|
| Weather | Aeronautical Weather Forecasts | Winds/Temperatures Aloft Forecast (FD) |
|---------|--------------------------------|--|

**PLT078**[Airport/Facility Directory](#)

|              |                            |                |
|--------------|----------------------------|----------------|
| Publications | Airport Facility Directory | Communications |
|--------------|----------------------------|----------------|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|              |                            |               |
|--------------|----------------------------|---------------|
| Publications | Airport Facility Directory | VOR Frequency |
|--------------|----------------------------|---------------|

**PLT079**[IFR Enroute Low Altitude Chart](#)

|                       |          |           |
|-----------------------|----------|-----------|
| Instrument Procedures | En Route | Altitudes |
|-----------------------|----------|-----------|

**PLT080**[Airport/Facility Directory](#)

|              |                            |                          |
|--------------|----------------------------|--------------------------|
| Publications | Airport Facility Directory | Radio Aids to Navigation |
|--------------|----------------------------|--------------------------|

[STARs - Standard Terminal Arrivals](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

**PLT082**[14 CFR 91](#)

|                       |                     |          |
|-----------------------|---------------------|----------|
| Instrument Procedures | Approach Procedures | Minimums |
|-----------------------|---------------------|----------|

[Instrument Procedures Handbook, FAA-H-8261-1](#)

|                       |                     |          |
|-----------------------|---------------------|----------|
| Instrument Procedures | Approach Procedures | Minimums |
|-----------------------|---------------------|----------|

**PLT083**[Aeronautical Information Manual](#)

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Instrument Procedures | Approach Procedures | Course Reversal     |
| Instrument Procedures | Approach Procedures | Holding             |
| Instrument Procedures | Approach Procedures | Minimums            |
| Instrument Procedures | Approach Procedures | Timed Approach      |
| Navigation            | Radio               | GPS                 |
| Publications          | Aeronautical Charts | Terminal Procedures |
| Publications          | AIM                 | Navigation Aids     |

[Instrument Approach Procedure Charts](#)

|                   |          |              |
|-------------------|----------|--------------|
| Flight Operations | Approach | Descent Rate |
|-------------------|----------|--------------|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

[Instrument Procedures Handbook, FAA-H-8261-1](#)

|                       |                     |     |
|-----------------------|---------------------|-----|
| Instrument Procedures | Approach Procedures | GPS |
|-----------------------|---------------------|-----|

[U.S. Terminal Procedures](#)

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Instrument Procedures | Approach Procedures | Descent             |
| Instrument Procedures | Approach Procedures | GPS                 |
| Instrument Procedures | Approach Procedures | Minimums            |
| Publications          | Aeronautical Charts | Terminal Procedures |

**PLT084**[AC 00-45 Aviation Weather Services](#)

|         |             |                      |
|---------|-------------|----------------------|
| Weather | Charts/Maps | Observed Winds Aloft |
|---------|-------------|----------------------|

**PLT086**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                            |                         |
|-----------------------|----------------------------|-------------------------|
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills      |
| Instrument Procedures | Basic Flight Instruments   | Turn-and-Slip Indicator |

**PLT088**[AC 91-43 Unreliable Airspeed Indication](#)

|                  |              |          |
|------------------|--------------|----------|
| Aircraft Systems | Pitot/Static | Blockage |
|------------------|--------------|----------|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|                  |              |          |
|------------------|--------------|----------|
| Aircraft Systems | Pitot/Static | Blockage |
|------------------|--------------|----------|

**PLT090**[Aeronautical Information Manual](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[IFR Enroute Low Altitude Chart](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[STARs - Standard Terminal Arrivals](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT091**[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |         |
|------------|-------|---------|
| Navigation | Radio | ADF/NDB |
|------------|-------|---------|

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | ILS |
|------------|-------|-----|

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT100**[Aeronautical Information Manual](#)

|                   |                      |                     |
|-------------------|----------------------|---------------------|
| Flight Operations | Emergency Procedures | Lost Communications |
|-------------------|----------------------|---------------------|

|              |                     |              |
|--------------|---------------------|--------------|
| Publications | Aeronautical Charts | IFR En Route |
|--------------|---------------------|--------------|

|              |     |                 |
|--------------|-----|-----------------|
| Publications | AIM | Navigation Aids |
|--------------|-----|-----------------|

**PLT102**[Aeronautical Information Manual](#)

|                       |                          |      |
|-----------------------|--------------------------|------|
| Instrument Procedures | Terminal Area Operations | STAR |
|-----------------------|--------------------------|------|

[Airport/Facility Directory](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

[STARs - Standard Terminal Arrivals](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

**PLT105**[AC 00-6 Aviation Weather](#)

|                  |          |       |
|------------------|----------|-------|
| Aircraft Systems | Avionics | Radar |
|------------------|----------|-------|

**PLT118**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Aircraft Systems | Flight Instruments | Attitude Indicator |
|------------------|--------------------|--------------------|

|                  |                    |                   |
|------------------|--------------------|-------------------|
| Aircraft Systems | Flight Instruments | Heading Indicator |
|------------------|--------------------|-------------------|

|                  |                    |                |
|------------------|--------------------|----------------|
| Aircraft Systems | Flight Instruments | Turn Indicator |
|------------------|--------------------|----------------|

|                       |                          |                    |
|-----------------------|--------------------------|--------------------|
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
|-----------------------|--------------------------|--------------------|

**PLT120**[AC 00-6 Aviation Weather](#)

|         |             |            |
|---------|-------------|------------|
| Weather | Meteorology | Turbulence |
|---------|-------------|------------|

**PLT125**[Aeronautical Information Manual](#)

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Instrument Procedures | Air Traffic Control | Collision Avoidance |
|-----------------------|---------------------|---------------------|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                            |         |
|-----------------------|----------------------------|---------|
| Instrument Procedures | Attitude Instrument Flying | Descent |
|-----------------------|----------------------------|---------|

[Instrument Procedures Handbook, FAA-H-8261-1](#)

|                       |                     |     |
|-----------------------|---------------------|-----|
| Instrument Procedures | Approach Procedures | GPS |
|-----------------------|---------------------|-----|

**PLT128**[AC 91-51 Effect of Icing on Aircraft Control and Airplane Deice and Anti-Ice Systems](#)

|         |           |       |
|---------|-----------|-------|
| Weather | Hazardous | Icing |
|---------|-----------|-------|

[AC 91-74 Pilot Guide: Flight in Icing Conditions](#)

|              |                        |       |
|--------------|------------------------|-------|
| Aerodynamics | Flight Characteristics | Icing |
|--------------|------------------------|-------|

|                   |          |                  |
|-------------------|----------|------------------|
| Flight Operations | Approach | Icing Conditions |
|-------------------|----------|------------------|

|                   |       |                     |
|-------------------|-------|---------------------|
| Flight Operations | Climb | Autopilot Operation |
|-------------------|-------|---------------------|

|         |           |       |
|---------|-----------|-------|
| Weather | Hazardous | Icing |
|---------|-----------|-------|

|   |                            |                         |
|---|----------------------------|-------------------------|
| <b>PLT133</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures             | En Route                   | Climb                   |
| <b>PLT136</b><br><a href="#">AC 91-74 Pilot Guide: Flight in Icing Conditions</a><br>Aircraft Systems | De-Icing / Anti-Icing      | System Operation        |
| <b>PLT141</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations                | Lighting                   | Rotating Beacon         |
| Airport Operations  | Marking / Signs            | Displaced Threshold     |
| Airport Operations  | Marking / Signs            | Runway                  |
| Airport Operations  | Marking / Signs            | Taxiway                 |
| <b>PLT144</b><br><a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a><br>Airport Operations        | Runway Conditions          | Hydroplaning            |
| <b>PLT147</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations                | Lighting                   | VASI                    |
| <b>PLT161</b><br><a href="#">14 CFR 91</a><br>Instrument Procedures                                   | En Route                   | VFR on Top              |
| Regulations   | 14CFR Part 91              | Clearance / Flight Plan |
| Regulations   | 14CFR Part 91              | Instrument Rating       |
| Regulations   | 14CFR Part 91              | Transponder             |
| <a href="#">Aeronautical Information Manual</a><br>Airspace   | Controlled                 | Class A                 |
| Airspace  | Controlled                 | Class B                 |
| Airspace  | Controlled                 | Class C                 |
| Airspace  | Controlled                 | Class D                 |
| Airspace  | Controlled                 | Class E                 |
| Airspace  | Special Use                | MOA                     |
| Airspace  | Uncontrolled               | Class G                 |
| <b>PLT162</b><br><a href="#">Aeronautical Information Manual</a><br>Airspace                          | Controlled                 | Class E                 |
| <b>PLT163</b><br><a href="#">14 CFR 91</a><br>Airspace  | Controlled                 | Class E                 |
| Airspace  | Uncontrolled               | Class G                 |
| Instrument Procedures   | En Route                   | VFR on Top              |
| <b>PLT165</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                | Temperature             |
| <b>PLT166</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures             | En Route                   | Altimeter Settings      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                    | Attitude Instrument Flying | Airspeed Changes        |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems         | Flight Instruments         | Altimeter               |



**PLT170**[14 CFR 91](#)

|   |                     |                   |
|---|---------------------|-------------------|
| Instrument Procedures                           | Approach Procedures | Missed Approach   |
| <a href="#">Aeronautical Information Manual</a> |                     |                   |
| Instrument Procedures                           | Approach Procedures | Approach Category |
| Instrument Procedures                           | Approach Procedures | Course Reversal   |
| Instrument Procedures                           | Approach Procedures | Descent           |
| Instrument Procedures                           | Approach Procedures | ILS               |
| Instrument Procedures                           | Approach Procedures | ILS / DME         |
| Instrument Procedures                           | Approach Procedures | Minimums          |
| Instrument Procedures                           | Approach Procedures | Missed Approach   |
| Instrument Procedures                           | Approach Procedures | Radar Approach    |

[Instrument Flying Handbook, FAA-H-8083-15](#)

|                   |          |                  |
|-------------------|----------|------------------|
| Flight Operations | Approach | Drift Correction |
|-------------------|----------|------------------|

[Instrument Procedures Handbook, FAA-H-8261-1](#)

|                   |          |              |
|-------------------|----------|--------------|
| Flight Operations | Approach | Descent Rate |
|-------------------|----------|--------------|

**PLT171**[Aeronautical Information Manual](#)

|                       |                     |           |
|-----------------------|---------------------|-----------|
| Instrument Procedures | Air Traffic Control | Reporting |
|-----------------------|---------------------|-----------|

**PLT172**[Aeronautical Information Manual](#)

|                       |                     |                              |
|-----------------------|---------------------|------------------------------|
| Instrument Procedures | Air Traffic Control | Weather Avoidance Assistance |
| Instrument Procedures | Approach Procedures | Radar Approach               |
| Instrument Procedures | Approach Procedures | Timed Approach               |
| Instrument Procedures | Approach Procedures | Visual / Contact             |
| Instrument Procedures | En Route            | Climb                        |

**PLT173**[AC 00-6 Aviation Weather](#)

|         |             |            |
|---------|-------------|------------|
| Weather | Meteorology | Air Masses |
| Weather | Meteorology | Stability  |

**PLT185**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                            |                    |
|-----------------------|----------------------------|--------------------|
| Instrument Procedures | Attitude Instrument Flying | Airspeed Changes   |
| Instrument Procedures | Attitude Instrument Flying | Bank               |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |
| Instrument Procedures | Attitude Instrument Flying | Power              |

**PLT186**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                            |                |
|-----------------------|----------------------------|----------------|
| Aerodynamics          | Principles of Flight       | Pitch Attitude |
| Instrument Procedures | Attitude Instrument Flying | Bank           |
| Instrument Procedures | Attitude Instrument Flying | Pitch          |

**PLT187**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                            |                         |
|-----------------------|----------------------------|-------------------------|
| Instrument Procedures | Attitude Instrument Flying | Bank                    |
| Instrument Procedures | Basic Flight Instruments   | Turn Coordinator        |
| Instrument Procedures | Basic Flight Instruments   | Turn-and-Slip Indicator |

**PLT192**[AC 00-6 Aviation Weather](#)

|         |             |        |
|---------|-------------|--------|
| Weather | Meteorology | Clouds |
| Weather | Meteorology | Icing  |

**PLT194**[Aeronautical Information Manual](#)

|               |             |                 |
|---------------|-------------|-----------------|
| Human Factors | Aeromedical | Visual Scanning |
|---------------|-------------|-----------------|

**PLT196**[Aeronautical Information Manual](#)

|         |                              |      |
|---------|------------------------------|------|
| Weather | Aeronautical Weather Reports | ATIS |
|---------|------------------------------|------|

**PLT202**[Aeronautical Information Manual](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | DME |
|------------|-------|-----|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |         |
|------------|-------|---------|
| Navigation | Radio | DME     |
| Navigation | Radio | DME ARC |

|  |                            |  |                             |
|--|----------------------------|--|-----------------------------|
| <b>PLT203</b>  |                            |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>   |                            |  |                             |
| Weather  | Meteorology                |  | Upper Air Data              |
| <b>PLT208</b>  |                            |  |                             |
| <a href="#">Aeronautical Information Manual</a>  |                            |  |                             |
| Flight Operations  | Emergency Procedures       |  | Declare an Emergency        |
| Flight Operations  | Emergency Procedures       |  | Lost Communications         |
| <b>PLT215</b>  |                            |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>  |                            |  |                             |
| Aircraft Systems   | Flight Instruments         |  | Compass                     |
| Instrument Procedures  | Basic Flight Instruments   |  | Magnetic Compass            |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a>                            |                            |  |                             |
| Aircraft Systems   | Flight Instruments         |  | Compass                     |
| Instrument Procedures  | Basic Flight Instruments   |  | Magnetic Compass            |
| <b>PLT220</b>  |                            |  |                             |
| <a href="#">Aeronautical Information Manual</a>  |                            |  |                             |
| Instrument Procedures  | En Route                   |  | Altitudes                   |
| <b>PLT224</b>  |                            |  |                             |
| <a href="#">Aeronautical Information Manual</a>  |                            |  |                             |
| Instrument Procedures  | Air Traffic Control        |  | ATC Clearance               |
| Instrument Procedures  | Flight Planning            |  | Flight Plan                 |
| <a href="#">Airport/Facility Directory</a>   |                            |  |                             |
| Instrument Procedures  | Departure                  |  | Departure Procedures Charts |
| <b>PLT226</b>  |                            |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>   |                            |  |                             |
| Weather  | Meteorology                |  | Fog                         |
| <b>PLT237</b>  |                            |  |                             |
| <a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a>  |                            |  |                             |
| Aerodynamics   | Principles of Flight       |  | Horizontal Lift             |
| <b>PLT248</b>  |                            |  |                             |
| <a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a>  |                            |  |                             |
| Aerodynamics   | Principles of Flight       |  | Horizontal Lift             |
| <b>PLT263</b>  |                            |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>   |                            |  |                             |
| Weather  | Meteorology                |  | Turbulence                  |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a>                            |                            |  |                             |
| Weather  | Meteorology                |  | Turbulence                  |
| <b>PLT274</b>  |                            |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>   |                            |  |                             |
| Aerodynamics   | Flight Characteristics     |  | Icing                       |
| <a href="#">AC 91-51 Effect of Icing on Aircraft Control and Airplane Deice and Anti-Ice Systems</a> |                            |  |                             |
| Weather  | Hazardous                  |  | Icing                       |
| <a href="#">AC 91-74 Pilot Guide: Flight in Icing Conditions</a>                                     |                            |  |                             |
| Weather  | Hazardous                  |  | Icing                       |
| <b>PLT275</b>  |                            |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>  |                            |  |                             |
| Navigation   | Radio                      |  | ILS                         |
| Navigation   | Radio                      |  | VOR                         |
| <b>PLT276</b>  |                            |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>  |                            |  |                             |
| Navigation   | Radio                      |  | VOR                         |
| <b>PLT277</b>  |                            |  |                             |
| <a href="#">AC 00-54 Pilot Wind Shear Guide</a>  |                            |  |                             |
| Flight Operations  | Approach                   |  | Descent Rate                |
| <a href="#">Aeronautical Information Manual</a>  |                            |  |                             |
| Instrument Procedures  | Approach Procedures        |  | ILS                         |
| Navigation   | Radio                      |  | ILS                         |
| <b>PLT278</b>  |                            |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>  |                            |  |                             |
| Instrument Procedures  | Attitude Instrument Flying |  | Airspeed Changes            |
| Instrument Procedures  | Attitude Instrument Flying |  | Bank                        |
| Instrument Procedures  | Attitude Instrument Flying |  | Climb                       |
| Instrument Procedures  | Attitude Instrument Flying |  | Pitch                       |

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|---|--------------------------------|--|
| <b>PLT280</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Human Factors         | Aeromedical                    | Illusions in Flight                    |
| <b>PLT281</b><br><a href="#">Airport/Facility Directory</a><br>Publications                         | Airport Facility Directory     | Weather Data Sources                   |
| <b>PLT283</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Charts/Maps                    | Constant Pressure Analysis Charts      |
| <b>PLT284</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | Winds/Temperatures Aloft Forecast (FD) |
| <b>PLT288</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | TAF                                    |
| <b>PLT290</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Reports   | AIRMETS                                |
| Weather   | Aeronautical Weather Reports   | Icing                                  |
| Weather   | Aeronautical Weather Reports   | SIGMETS                                |
| <a href="#">Aeronautical Information Manual</a><br>Weather  | Aeronautical Weather Reports   | AIRMETS                                |
| <b>PLT292</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Approach Procedures            | Timed Approach                         |
| Instrument Procedures   | Approach Procedures            | Visual / Contact                       |
| Publications  | Aeronautical Charts            | Terminal Procedures                    |
| <b>PLT293</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Departure                      | Departure Procedures Charts            |
| <b>PLT296</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations               | Landing                        | Circling                               |
| Instrument Procedures   | Approach Procedures            | Missed Approach                        |
| Instrument Procedures   | En Route                       | Holding                                |
| <a href="#">Instrument Approach Procedure Charts</a><br>Instrument Procedures                       | Approach Procedures            | Minimums                               |
| <b>PLT297</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Attitude Instrument Flying     | Instrument Malfunction                 |
| Instrument Procedures   | Attitude Instrument Flying     | Unusual Attitude Recovery              |
| <b>PLT298</b><br><a href="#">Aeronautical Information Manual</a><br>Airspace                        | Controlled                     | Class A                                |
| Instrument Procedures   | Air Traffic Control            | Reporting                              |
| Instrument Procedures   | En Route                       | VFR on Top                             |
| <b>PLT300</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | VOR Check                              |
| <a href="#">Aeronautical Information Manual</a><br>Navigation                                       | Radio                          | DME                                    |
| Navigation  | Radio                          | VOR                                    |
| Navigation  | Radio                          | VOR Check                              |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation                             | Radio                          | VOR                                    |
| <b>PLT301</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology                    | Temperature                            |
| <b>PLT302</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology                    | Jet Stream                             |
| <b>PLT316</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | Severe Weather Watch Bulletin (WW)     |

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|---|----------------------------|--|-------------------------|
| <b>PLT317</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Weather   | Hazardous                  |  | Microburst              |
| Weather   | Hazardous                  |  | Windshear               |
| <b>PLT318</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Instrument Procedures   | Air Traffic Control        |  | Reporting               |
| <b>PLT321</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Instrument Procedures   | Approach Procedures        |  | ILS                     |
| Instrument Procedures   | Approach Procedures        |  | Parallel Approaches     |
| <b>PLT322</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Navigation  | Radio                      |  | VOR                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Navigation  | Radio                      |  | VOR                     |
| <b>PLT323</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Air Traffic Control Procedures  | Arrival                    |  | NOTAMS                  |
| Instrument Procedures   | Flight Planning            |  | NOTAMS                  |
| <b>PLT330</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Human Factors   | Aeromedical                |  | Physiological           |
| <b>PLT332</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Human Factors   | Aeromedical                |  | Physiological           |
| <b>PLT333</b>   |                            |  |                         |
| <a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a>                   |                            |  |                         |
| Human Factors   | Aeromedical                |  | Night Vision            |
| <b>PLT334</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Human Factors   | Aeromedical                |  | Spatial Disorientation  |
| <b>PLT336</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Attitude Instrument Flying |  | Pitch                   |
| <b>PLT337</b>   |                            |  |                         |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                            |  |                         |
| Aircraft Systems  | Pitot/Static               |  | Alternate Static Source |
| <b>PLT344</b>   |                            |  |                         |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                            |  |                         |
| Weather   | Meteorology                |  | Precipitation           |
| <b>PLT345</b>   |                            |  |                         |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                            |  |                         |
| Weather   | Meteorology                |  | Pressure                |
| <b>PLT353</b>   |                            |  |                         |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                            |  |                         |
| Weather   | Charts/Maps                |  | Radar Summary Charts    |
| <b>PLT354</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Instrument Procedures   | Approach Procedures        |  | GPS                     |
| Navigation  | Radio                      |  | GPS                     |
| Publications  | AIM                        |  | Navigation Aids         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Navigation  | Radio                      |  | GPS                     |
| <a href="#">Instrument Procedures Handbook, FAA-H-8261-1</a>              |                            |  |                         |
| Instrument Procedures   | Approach Procedures        |  | GPS                     |
| <b>PLT357</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Navigation  | Radio                      |  | SDF/LDA                 |
| <b>PLT361</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Publications  | AIM                        |  | Navigation Aids         |
| <b>PLT363</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Navigation  | Radio                      |  | VOR Check               |

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| <b>PLT370</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Clearance / Flight Plan           |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Instrument Procedures                                     | Air Traffic Control        |  | ATC Clearance                     |
| Instrument Procedures                                     | Air Traffic Control        |  | Collision Avoidance               |
| <b>PLT379</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Alternate Airport                 |
| <b>PLT382</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Instrument Procedures                                     | Approach Procedures        |  | Minimums                          |
| <b>PLT391</b>   |                            |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Flight Operations   | Emergency Procedures       |  | Lost Communications               |
| Instrument Procedures                                     | Communications             |  | Reports                           |
| <b>PLT403</b>   |                            |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Flight Operations   | Emergency Procedures       |  | Clearance Deviation               |
| <b>PLT406</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Instrument Procedures                                     | Approach Procedures        |  | VASI                              |
| Regulations   | 14CFR Part 91              |  | Instrument/Equipment Requirements |
| <b>PLT409</b>   |                            |  |                                   |
| <a href="#">14 CFR 61</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 61              |  | Logging Instrument Flight Time    |
| <b>PLT413</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Fuel Requirements                 |
| <b>PLT415</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Portable Electronic Devices       |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                            |  |                                   |
| Instrument Procedures                                     | Attitude Instrument Flying |  | Power                             |
| <b>PLT420</b>   |                            |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Instrument Procedures                                     | Approach Procedures        |  | Parallel Approaches               |
| <b>PLT421</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Clearance / Flight Plan           |
| Regulations   | 14CFR Part 91              |  | VOR Check                         |
| <b>PLT429</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Instrument/Equipment Requirements |
| <b>PLT430</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | IFR Minimum Altitudes             |
| <b>PLT434</b>   |                            |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Air Traffic Control Procedures                            | Communications             |  | Airport Advisory Service          |
| <b>PLT435</b>   |                            |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                            |  |                                   |
| Airport Operations  | Uncontrolled               |  | FSS                               |
| <b>PLT438</b>   |                            |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 91              |  | Supplemental Oxygen               |
| <b>PLT442</b>   |                            |  |                                   |
| <a href="#">14 CFR 61</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 61              |  | Currency                          |
| Regulations   | 14CFR Part 61              |  | Logging Instrument Flight Time    |
| <b>PLT443</b>   |                            |  |                                   |
| <a href="#">14 CFR 61</a>                                 |                            |  |                                   |
| Regulations   | 14CFR Part 61              |  | Limitations                       |

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| <b>PLT444</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Regulations   | 14CFR Part 91                |  | Preflight Action         |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Instrument Procedures   | Air Traffic Control          |  | ATC Clearance            |
| Instrument Procedures   | Air Traffic Control          |  | Collision Avoidance      |
| <b>PLT445</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Regulations   | 14CFR Part 91                |  | Preflight Action         |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Publications  | AIM                          |  | Aeronautical Information |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                          |
| Instrument Procedures   | Basic Flight Instruments     |  | Heading Indicator        |
| <b>PLT451</b>   |                              |  |                          |
| <a href="#">14 CFR 61</a>   |                              |  |                          |
| Regulations   | 14CFR Part 61                |  | Limitations              |
| <b>PLT454</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Regulations   | 14CFR Part 91                |  | Altimeter System Test    |
| Regulations   | 14CFR Part 91                |  | VOR Check                |
| <b>PLT455</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Regulations   | 14CFR Part 91                |  | Clearance / Flight Plan  |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Publications  | AIM                          |  | FSS                      |
| <b>PLT459</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Instrument Procedures   | Approach Procedures          |  | Minimums                 |
| <b>PLT475</b>   |                              |  |                          |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                              |  |                          |
| Weather   | Meteorology                  |  | Squalls                  |
| <b>PLT492</b>   |                              |  |                          |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                          |
| Weather   | Meteorology                  |  | Temperature              |
| <b>PLT493</b>   |                              |  |                          |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                          |
| Aerodynamics  | Flight Characteristics       |  | Icing                    |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |  |                          |
| Weather   | Meteorology                  |  | Icing                    |
| <b>PLT495</b>   |                              |  |                          |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                          |
| Weather   | Meteorology                  |  | Thunderstorms            |
| <b>PLT501</b>   |                              |  |                          |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Weather   | Aeronautical Weather Reports |  | PIREP                    |
| <b>PLT507</b>   |                              |  |                          |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Navigation  | Radio                        |  | VOR Check                |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                          |
| Navigation  | Radio                        |  | VOR                      |
| Navigation  | Radio                        |  | VOR Check                |
| <b>PLT508</b>   |                              |  |                          |
| <a href="#">14 CFR 91</a>   |                              |  |                          |
| Regulations   | 14CFR Part 91                |  | Altimeter System Test    |
| Regulations   | 14CFR Part 91                |  | VOR Check                |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Navigation  | Radio                        |  | VOR Check                |
| <b>PLT509</b>   |                              |  |                          |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                          |
| Flight Operations   | Wake Turbulence              |  | Drift                    |
| Flight Operations   | Wake Turbulence              |  | Landing                  |
| Flight Operations   | Wake Turbulence              |  | Takeoff                  |
| <b>PLT510</b>   |                              |  |                          |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                          |
| Weather   | Meteorology                  |  | Solar Energy             |

|  |                                |                              |
|--|--------------------------------|------------------------------|
| <b>PLT511</b>                                      |                                |                              |
| <a href="#">AC 00-6 Aviation Weather</a>           |                                |                              |
| Weather  | Meteorology                    | Air Masses                   |
| Weather  | Meteorology                    | Fronts                       |
| <b>PLT512</b>                                      |                                |                              |
| <a href="#">AC 00-6 Aviation Weather</a>           |                                |                              |
| Weather  | Meteorology                    | Moisture                     |
| <b>PLT513</b>                                      |                                |                              |
| <a href="#">AC 00-45 Aviation Weather Services</a> |                                |                              |
| Weather  | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA) |
| <b>PLT516</b>                                      |                                |                              |
| <a href="#">AC 00-6 Aviation Weather</a>           |                                |                              |
| Weather  | Meteorology                    | Wind                         |
| <b>PLT518</b>                                      |                                |                              |
| <a href="#">AC 00-54 Pilot Wind Shear Guide</a>    |                                |                              |
| Weather  | Meteorology                    | Windshear                    |
| <a href="#">AC 00-6 Aviation Weather</a>           |                                |                              |
| Weather  | Meteorology                    | Thunderstorms                |
| Weather  | Meteorology                    | Windshear                    |
| <a href="#">Aeronautical Information Manual</a>    |                                |                              |
| Weather  | Hazardous                      | Windshear                    |

**Instrument Rating—Helicopter (IRH)  
Sample Questions**



## INSTRUMENT RATING—HELICOPTER (IRH)

### 1. What force causes a helicopter to turn?

- A—Rudder pressure or force around the vertical axis.
- B—Vertical lift component.
- C—Horizontal lift component.

*Answer: C.*

*Learning Statement: Recall forces acting on aircraft-turns.*

### 2. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter-settings/setting procedures.*

### 3. How can you obtain the pressure altitude on flights below 18,000 feet?

- A—Set your altimeter to 29.92 inches H<sub>g</sub> and read the pressure altitude on the instrument face.
- B—Set your altimeter to the field elevation and read the pressure altitude from the Kollsman window.
- C—Contact an ATC facility FSS and request the current pressure altitude for the area.

*Answer: A.*

*Learning Statement: Interpret altimeter-readings/settings.*

### 4. If while in level flight, it becomes necessary to use an alternate source of static pressure vented inside the airplane, which of the following variations in instrument indications should the pilot expect?

- A—The altimeter will read lower than normal, airspeed lower than normal, and the VSI will momentarily show a descent.
- B—the altimeter will read higher than normal, airspeed greater than normal, and the VSI will momentarily show a climb.
- C—The altimeter will read lower than normal, airspeed greater than normal, and the VSI will momentarily show a climb and then a descent.

*Answer: B.*

*Learning Statement: Recall pitot-static system-components/operating principles/characteristics.*

### 5. MEA is an altitude which assures

- A—obstacle clearance, accurate navigational signals from more than one VORTAC, and accurate DME mileage.
- B—a 1,000-foot obstacle clearance within two miles of an airway and assures accurate DME mileage.
- C—acceptable navigational signal coverage and meets obstruction clearance requirements.

*Answer: C.*

*Learning Statement: Define MEA/MOCA/MRA.*

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE INSTRUMENT RATING—HELICOPTER (IRH)

| <i>Topic</i>  | <i>Content</i>        | <i>Specific</i>                     |
|---|-----------------------|-------------------------------------|
| <b>PLT004</b><br><a href="#">Aeronautical Information Manual</a>              | Instrument Procedures | Flight Planning                     |
|   |                       | Departure Climb                     |
| <a href="#">U.S. Terminal Procedures</a>                                      | Instrument Procedures | Flight Planning                     |
|   |                       | Departure Climb                     |
| <b>PLT008</b><br><a href="#">Instrument Procedures Handbook, FAA-H-8261-1</a> | Flight Operations     | Approach                            |
|   |                       | Descent Rate                        |
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>    | Instrument Procedures | Flight Planning                     |
|   |                       | Enroute                             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a>     | Instrument Procedures | En Route                            |
|   |                       | CAS Calculations                    |
| <b>PLT023</b><br><a href="#">AC 00-6 Aviation Weather</a>                     | Weather               | Meteorology                         |
|   |                       | Pressure                            |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a>              | Instrument Procedures | En Route                            |
|   |                       | Altitudes                           |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                     | Instrument Procedures | En Route                            |
|   |                       | Altitudes                           |
| <b>PLT041</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>    | Aircraft Systems      | Flight Instruments                  |
|   |                       | Altimeter                           |
|   | Instrument Procedures | Basic Flight Instruments            |
|   |                       | Altimeter                           |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a>     | Aircraft Systems      | Pitot/Static                        |
|   |                       | Altimeter                           |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a>              | Instrument Procedures | Air Traffic Control                 |
|   |                       | ATC Clearance                       |
|   | Instrument Procedures | Communications                      |
|   |                       | Terminology                         |
| <b>PLT049</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>    | Navigation            | Radio                               |
|   |                       | ILS                                 |
| <b>PLT052</b><br><a href="#">U.S. Terminal Procedures</a>                     | Flight Operations     | Emergency Procedures                |
|   |                       | Lost Communications                 |
|   | Instrument Procedures | Flight Planning                     |
|   |                       | Departure Climb                     |
| <b>PLT058</b><br><a href="#">IFR Enroute Low Altitude Chart</a>               | Navigation            | Radio                               |
|   |                       | DME                                 |
|   | Publications          | Aeronautical Charts                 |
|   |                       | IFR En Route                        |
| <b>PLT059</b><br><a href="#">AC 00-45 Aviation Weather Services</a>           | Weather               | Aeronautical Weather Reports        |
|   |                       | METAR                               |
| <b>PLT061</b><br><a href="#">AC 00-45 Aviation Weather Services</a>           | Weather               | Aeronautical Weather Reports        |
|   |                       | PIREP                               |
| <b>PLT068</b><br><a href="#">AC 00-45 Aviation Weather Services</a>           | Weather               | Charts/Maps                         |
|   |                       | High-Level Significant Weather Prog |
|   | Weather               | Charts/Maps                         |
|   |                       | Low-Level Significant Weather Prog  |
| <b>PLT078</b><br><a href="#">Airport/Facility Directory</a>                   | Publications          | Airport Facility Directory          |
|   |                       | Communications                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                     | Publications          | Airport Facility Directory          |
|   |                       | VOR Frequency                       |
| <b>PLT080</b><br><a href="#">STARs - Standard Terminal Arrivals</a>           | Publications          | Aeronautical Charts                 |
|   |                       | Terminal Procedures                 |

**PLT083**[14 CFR 97](#)

|                       |                     |                   |
|-----------------------|---------------------|-------------------|
| Instrument Procedures | Approach Procedures | Minimums          |
| Regulations           | 14CFR Part 97       | Copter Procedures |

[Aeronautical Information Manual](#)

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Instrument Procedures | Approach Procedures | COPTER              |
| Publications          | Aeronautical Charts | Terminal Procedures |

[Instrument Flying Handbook, FAA-H-8083-15](#)

|             |               |                   |
|-------------|---------------|-------------------|
| Regulations | 14CFR Part 97 | Copter Procedures |
|-------------|---------------|-------------------|

[U.S. Terminal Procedures](#)

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Instrument Procedures | Approach Procedures | Minimums            |
| Publications          | Aeronautical Charts | Terminal Procedures |
| Regulations           | 14CFR Part 97       | Copter Procedures   |

**PLT086**[Rotorcraft Flying Handbook, FAA-H-8083-21](#)

|                       |                          |                         |
|-----------------------|--------------------------|-------------------------|
| Instrument Procedures | Basic Flight Instruments | Turn-and-Slip Indicator |
|-----------------------|--------------------------|-------------------------|

**PLT090**[Aeronautical Information Manual](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[Airport/Facility Directory](#)

|            |       |           |
|------------|-------|-----------|
| Navigation | Radio | VOR Check |
|------------|-------|-----------|

[IFR Enroute Low Altitude Chart](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT091**[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |         |
|------------|-------|---------|
| Navigation | Radio | ADF/NDB |
|------------|-------|---------|

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | ILS |
|------------|-------|-----|

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT100**[Aeronautical Information Manual](#)

|                   |                      |                     |
|-------------------|----------------------|---------------------|
| Flight Operations | Emergency Procedures | Lost Communications |
| Publications      | AIM                  | Navigation Aids     |

[Instrument Procedures Handbook, FAA-H-8261-1](#)

|              |                     |              |
|--------------|---------------------|--------------|
| Publications | Aeronautical Charts | IFR En Route |
|--------------|---------------------|--------------|

**PLT102**[Aeronautical Information Manual](#)

|                       |                          |      |
|-----------------------|--------------------------|------|
| Instrument Procedures | Terminal Area Operations | STAR |
|-----------------------|--------------------------|------|

[U.S. Terminal Procedures](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

**PLT118**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                  |                    |                |
|------------------|--------------------|----------------|
| Aircraft Systems | Flight Instruments | Turn Indicator |
|------------------|--------------------|----------------|

|                       |                          |                    |
|-----------------------|--------------------------|--------------------|
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
|-----------------------|--------------------------|--------------------|

|                       |                          |                    |
|-----------------------|--------------------------|--------------------|
| Instrument Procedures | Basic Flight Instruments | Gyroscopic Systems |
|-----------------------|--------------------------|--------------------|

**PLT141**[Aeronautical Information Manual](#)

|                    |          |                 |
|--------------------|----------|-----------------|
| Airport Operations | Lighting | Rotating Beacon |
|--------------------|----------|-----------------|

|                    |                 |                     |
|--------------------|-----------------|---------------------|
| Airport Operations | Marking / Signs | Displaced Threshold |
|--------------------|-----------------|---------------------|

|                    |                 |        |
|--------------------|-----------------|--------|
| Airport Operations | Marking / Signs | Runway |
|--------------------|-----------------|--------|

|                    |                 |         |
|--------------------|-----------------|---------|
| Airport Operations | Marking / Signs | Taxiway |
|--------------------|-----------------|---------|

**PLT147**[Aeronautical Information Manual](#)

|                    |          |      |
|--------------------|----------|------|
| Airport Operations | Lighting | VASI |
|--------------------|----------|------|

**PLT161**[Aeronautical Information Manual](#)

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class B |
|----------|------------|---------|

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class C |
|----------|------------|---------|

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class D |
|----------|------------|---------|

|          |             |     |
|----------|-------------|-----|
| Airspace | Special Use | MOA |
|----------|-------------|-----|

|          |              |         |
|----------|--------------|---------|
| Airspace | Uncontrolled | Class G |
|----------|--------------|---------|

|   |                              |  |                             |
|---|------------------------------|--|-----------------------------|
| <b>PLT163</b>   |                              |  |                             |
| <a href="#">14 CFR 91</a>   |                              |  |                             |
| Airspace  | Uncontrolled                 |  | Class G                     |
| Instrument Procedures   | En Route                     |  | VFR on Top                  |
| <b>PLT165</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Temperature                 |
| <b>PLT166</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Instrument Procedures   | En Route                     |  | Altimeter Settings          |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |  |                             |
| Aircraft Systems  | Flight Instruments           |  | Altimeter                   |
| <b>PLT171</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Instrument Procedures   | Air Traffic Control          |  | Reporting                   |
| <b>PLT173</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Air Masses                  |
| <b>PLT175</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Pitch                       |
| <b>PLT185</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Bank                        |
| Instrument Procedures   | Attitude Instrument Flying   |  | Fundamental Skills          |
| Instrument Procedures   | Attitude Instrument Flying   |  | Pitch                       |
| <b>PLT186</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Pitch                       |
| <b>PLT187</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Basic Flight Instruments     |  | Turn Coordinator            |
| <b>PLT192</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Clouds                      |
| <b>PLT196</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Weather   | Aeronautical Weather Reports |  | ATIS                        |
| <b>PLT202</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Navigation  | Radio                        |  | DME                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Navigation  | Radio                        |  | DME                         |
| Navigation  | Radio                        |  | DME ARC                     |
| <b>PLT208</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Flight Operations   | Emergency Procedures         |  | Declare an Emergency        |
| Flight Operations   | Emergency Procedures         |  | Lost Communications         |
| <b>PLT215</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Basic Flight Instruments     |  | Magnetic Compass            |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |  |                             |
| Aircraft Systems  | Flight Instruments           |  | Compass                     |
| <b>PLT224</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Instrument Procedures   | Flight Planning              |  | Flight Plan                 |
| <a href="#">Airport/Facility Directory</a>                                |                              |  |                             |
| Instrument Procedures   | Departure                    |  | Departure Procedures Charts |
| <b>PLT226</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Fog                         |
| <b>PLT274</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Aerodynamics  | Flight Characteristics       |  | Icing                       |

|                       |   |  |  |
|-----------------------|---|--|--|
| <b>PLT278</b>         |   |  |  |
|                       | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |  |  |
| Instrument Procedures | Attitude Instrument Flying                                |  | Pitch                                  |
| <b>PLT280</b>         |   |  |  |
|                       | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |  |  |
| Human Factors         | Aeromedical   |  | Illusions in Flight                    |
| <b>PLT281</b>         |   |  |  |
|                       | <a href="#">Airport/Facility Directory</a>                |  |  |
| Publications          | Airport Facility Directory                                |  | EFAS                                   |
| <b>PLT284</b>         |   |  |  |
|                       | <a href="#">AC 00-45 Aviation Weather Services</a>        |  |  |
| Weather               | Aeronautical Weather Forecasts                            |  | Winds/Temperatures Aloft Forecast (FD) |
| <b>PLT288</b>         |   |  |  |
|                       | <a href="#">AC 00-45 Aviation Weather Services</a>        |  |  |
| Weather               | Aeronautical Weather Forecasts                            |  | TAF                                    |
| <b>PLT290</b>         |   |  |  |
|                       | <a href="#">AC 00-45 Aviation Weather Services</a>        |  |  |
| Weather               | Aeronautical Weather Reports                              |  | AIRMETS                                |
| Weather               | Aeronautical Weather Reports                              |  | Icing                                  |
| Weather               | Aeronautical Weather Reports                              |  | SIGMETS                                |
| <b>PLT292</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Instrument Procedures | En Route  |  | Altitudes                              |
| Publications          | Aeronautical Charts                                       |  | Terminal Procedures                    |
| <b>PLT296</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Instrument Procedures | Approach Procedures                                       |  | Missed Approach                        |
| Instrument Procedures | En Route  |  | Holding                                |
| <b>PLT297</b>         |   |  |  |
|                       | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |  |  |
| Instrument Procedures | Attitude Instrument Flying                                |  | Instrument Malfunction                 |
| <b>PLT298</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Instrument Procedures | En Route  |  | VFR on Top                             |
| <b>PLT300</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Navigation            | Radio   |  | DME                                    |
| Navigation            | Radio   |  | VOR                                    |
| Navigation            | Radio   |  | VOR Check                              |
|                       | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |  |  |
| Navigation            | Radio   |  | VOR                                    |
| <b>PLT301</b>         |   |  |  |
|                       | <a href="#">AC 00-6 Aviation Weather</a>                  |  |  |
| Weather               | Meteorology   |  | Temperature                            |
| <b>PLT317</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Weather               | Hazardous   |  | Windshear                              |
| <b>PLT318</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Instrument Procedures | Air Traffic Control                                       |  | Reporting                              |
| <b>PLT322</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Navigation            | Radio   |  | VOR                                    |
| <b>PLT323</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Instrument Procedures | Flight Planning   |  | NOTAMS                                 |
| <b>PLT330</b>         |   |  |  |
|                       | <a href="#">Aeronautical Information Manual</a>           |  |  |
| Human Factors         | Aeromedical   |  | Physiological                          |
| <b>PLT333</b>         |   |  |  |
|                       | <a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a>   |  |  |
| Human Factors         | Aeromedical   |  | Night Vision                           |
| <b>PLT334</b>         |   |  |  |
|                       | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |  |  |
| Human Factors         | Aeromedical   |  | Spatial Disorientation                 |

|   |                          |                                   |
|---|--------------------------|-----------------------------------|
| <b>PLT337</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Basic Flight Instruments | Altimeter                         |
| <b>PLT344</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology              | Precipitation                     |
| <b>PLT345</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology              | Pressure                          |
| <b>PLT366</b><br><a href="#">49 CFR 830</a><br>Regulations  | NTSB Part 830            | Accident/Incident Reporting       |
| <b>PLT370</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Air Traffic Control      | ATC Clearance                     |
| <b>PLT379</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Alternate Airport                 |
| <b>PLT382</b><br><a href="#">14 CFR 97</a><br>Regulations   | 14CFR Part 97            | Copter Procedures                 |
| <b>PLT391</b><br><a href="#">14 CFR 91</a><br>Instrument Procedures                                 | Communications           | Failure                           |
| <a href="#">Aeronautical Information Manual</a><br>Flight Operations                                | Emergency Procedures     | Lost Communications               |
| <b>PLT403</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations               | Emergency Procedures     | Clearance Deviation               |
| <b>PLT405</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Instrument/Equipment Requirements |
| <b>PLT409</b><br><a href="#">14 CFR 61</a><br>Regulations   | 14CFR Part 61            | Logging Instrument Flight Time    |
| <b>PLT411</b><br><a href="#">14 CFR 61</a><br>Regulations   | 14CFR Part 61            | Currency                          |
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 61            | Limitations                       |
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Fuel Requirements                 |
| <b>PLT420</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Takeoff / Landing - IFR           |
| <a href="#">14 CFR 97</a><br>Regulations  | 14CFR Part 97            | Copter Procedures                 |
| <b>PLT421</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Clearance / Flight Plan           |
| <a href="#">Aeronautical Information Manual</a><br>Regulations                                      | 14CFR Part 91            | VOR Check                         |
| <b>PLT429</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Instrument/Equipment Requirements |
| <b>PLT430</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | IFR Minimum Altitudes             |
| <b>PLT434</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Approach Procedures      | Visual / Contact                  |
| <b>PLT442</b><br><a href="#">14 CFR 61</a><br>Regulations   | 14CFR Part 61            | Currency                          |
| <b>PLT443</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Safety Plot Requirements          |

|   |                              |                        |
|---|------------------------------|------------------------|
| <b>PLT444</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures             | Air Traffic Control          | Collision Avoidance    |
| <b>PLT455</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                | Clearance / Fight Plan |
| <b>PLT475</b><br><a href="#">Aeronautical Information Manual</a><br>Publications                      | AIM                          | FSS                    |
| <b>PLT493</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                        | Meteorology                  | Squalls                |
| <b>PLT495</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Weather | Meteorology                  | Icing                  |
| <b>PLT495</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                  | Thunderstorms          |
| <b>PLT508</b><br><a href="#">Aeronautical Information Manual</a><br>Navigation                        | Radio                        | VOR Check              |
| <b>PLT511</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                  | Fronts                 |
| <b>PLT512</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                  | Moisture               |
| <b>PLT515</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                        | Aeronautical Weather Reports | HIWAS                  |
| <b>PLT516</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                  | Wind                   |
| <b>PLT518</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                  | Thunderstorms          |
| <a href="#">Aeronautical Information Manual</a><br>Weather  | Meteorology                  | Windshear              |
| <a href="#">Aeronautical Information Manual</a><br>Weather  | Hazardous                    | Windshear              |

**Instrument Rating—Foreign Pilot (IFP)  
Sample Questions**



## INSTRUMENT RATING—FOREIGN PILOT (IFP)

**1. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter**

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

**2. The vertical extent of the Class A airspace throughout the conterminous U.S. extends from**

- A—18,000 feet to and including FL 450.
- B—18,000 feet to and including FL 600.
- C—12,500 feet to and including FL 600.

*Answer: B.*

*Learning Statement: Recall airspace classes—limits/requirements/restrictions/airspeeds/equipment.*

**3. In which airspace is VFR on Top operation prohibited?**

- A—Class B airspace.
- B—Class E airspace.
- C—Class A airspace.

*Answer: C.*

*Learning Statement: Recall airspace classes—limits/requirements/restrictions/airspeeds/equipment.*

**4. When cleared to execute a published sidestep maneuver for a specific approach and landing on the parallel runway, at what point is the pilot expected to commence this maneuver?**

- A—At the published minimum altitude for a circling approach.
- B—As soon as possible after the runway or runway environment is in sight.
- C—At the localizer MDA minimum and when the runway is in sight.

*Answer: B.*

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

**5. What responsibility does the pilot-in-command of an IFR flight assume upon entering VFR conditions?**

- A—Reporting VFR conditions to ARTCC.
- B—Obtaining an amended clearance authorizing VFR flight.
- C—Seeing and avoiding other aircraft.

*Answer: C.*

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

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE INSTRUMENT RATING—FOREIGN PILOT (IFP)

| <i>Topic</i>  | <i>Content</i>               | <i>Specific</i>             |
|---|------------------------------|-----------------------------|
| <b>PLT002</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures | En Route                     | CAS Calculations            |
| <b>PLT004</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Departure Climb             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures                  | Flight Planning              | Departure Climb             |
| <a href="#">U.S. Terminal Procedures</a><br>Instrument Procedures   | Flight Planning              | Departure Climb             |
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                 | Flight Planning              | Enroute                     |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures                  | Flight Planning              | Enroute                     |
| <b>PLT023</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather  | Meteorology                  | Pressure                    |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | En Route                     | Altitudes                   |
| <b>PLT041</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                   |
| Instrument Procedures   | Basic Flight Instruments     | Altimeter                   |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Air Traffic Control          | ATC Clearance               |
| <b>PLT052</b><br><a href="#">U.S. Terminal Procedures</a><br>Flight Operations                                      | Emergency Procedures         | Lost Communications         |
| Instrument Procedures   | Departure                    | Departure Procedures Charts |
| <b>PLT053</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Flight Plan                 |
| <b>PLT058</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Publications                                     | Aeronautical Charts          | IFR En Route                |
| <b>PLT059</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Aeronautical Weather Reports | METAR                       |
| <b>PLT078</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Publications                          | Airport Facility Directory   | VOR Frequency               |
| <b>PLT079</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Instrument Procedures                            | En Route                     | Altitudes                   |
| <b>PLT080</b><br><a href="#">Airport/Facility Directory</a><br>Publications   | Airport Facility Directory   | Radio Aids to Navigation    |
| <a href="#">STARs - Standard Terminal Arrivals</a><br>Publications  | Aeronautical Charts          | Terminal Procedures         |
| <b>PLT083</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Approach Procedures          | Holding                     |
| Instrument Procedures   | Approach Procedures          | Minimums                    |
| Publications  | Aeronautical Charts          | Terminal Procedures         |
| <a href="#">U.S. Terminal Procedures</a><br>Publications  | Aeronautical Charts          | Terminal Procedures         |

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|---|--------------------------|--|---------------------|
| <b>PLT090</b>   |                          |  |                     |
| <a href="#">IFR Enroute Low Altitude Chart</a>                            |                          |  |                     |
| Navigation  | Radio                    |  | VOR                 |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                          |  |                     |
| Navigation  | Radio                    |  | VOR                 |
| <a href="#">STARs - Standard Terminal Arrivals</a>                        |                          |  |                     |
| Navigation  | Radio                    |  | VOR                 |
| <b>PLT091</b>   |                          |  |                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                          |  |                     |
| Navigation  | Radio                    |  | ADF/NDB             |
| <b>PLT100</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Flight Operations   | Emergency Procedures     |  | Lost Communications |
| Publications  | AIM                      |  | Navigation Aids     |
| <b>PLT102</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Instrument Procedures   | Terminal Area Operations |  | STAR                |
| Publications  | Aeronautical Charts      |  | Terminal Procedures |
| <b>PLT105</b>   |                          |  |                     |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                          |  |                     |
| Aircraft Systems  | Avionics                 |  | Radar               |
| <b>PLT118</b>   |                          |  |                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                          |  |                     |
| Aircraft Systems  | Flight Instruments       |  | Attitude Indicator  |
| Aircraft Systems  | Flight Instruments       |  | Heading Indicator   |
| Instrument Procedures   | Basic Flight Instruments |  | Attitude Indicator  |
| <b>PLT141</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Airport Operations  | Marking / Signs          |  | Displaced Threshold |
| Airport Operations  | Marking / Signs          |  | Runway              |
| Airport Operations  | Marking / Signs          |  | Taxiway             |
| <b>PLT145</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Airport Operations  | Lighting                 |  | REIL                |
| <b>PLT147</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Airport Operations  | Lighting                 |  | VASI                |
| <b>PLT161</b>   |                          |  |                     |
| <a href="#">14 CFR 91</a>   |                          |  |                     |
| Regulations   | 14CFR Part 91            |  | Instrument Rating   |
| Regulations   | 14CFR Part 91            |  | Transponder         |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Airspace  | Controlled               |  | Class D             |
| Airspace  | Special Use              |  | MOA                 |
| Airspace  | Uncontrolled             |  | Class G             |
| <b>PLT162</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Airspace  | Controlled               |  | Class E             |
| <b>PLT163</b>   |                          |  |                     |
| <a href="#">14 CFR 91</a>   |                          |  |                     |
| Instrument Procedures   | En Route                 |  | VFR on Top          |
| <b>PLT165</b>   |                          |  |                     |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                          |  |                     |
| Weather   | Meteorology              |  | Temperature         |
| <b>PLT166</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Instrument Procedures   | En Route                 |  | Altimeter Settings  |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                          |  |                     |
| Aircraft Systems  | Flight Instruments       |  | Altimeter           |
| <b>PLT172</b>   |                          |  |                     |
| <a href="#">Aeronautical Information Manual</a>                           |                          |  |                     |
| Instrument Procedures   | Approach Procedures      |  | Radar Approach      |
| Instrument Procedures   | Approach Procedures      |  | Visual / Contact    |

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|---|--------------------------------|-----------------------------|
| <b>PLT185</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Instrument Procedures   | Attitude Instrument Flying     | Airspeed Changes            |
| Instrument Procedures   | Attitude Instrument Flying     | Bank                        |
| <b>PLT186</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Instrument Procedures   | Attitude Instrument Flying     | Pitch                       |
| <b>PLT187</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Instrument Procedures   | Attitude Instrument Flying     | Bank                        |
| <b>PLT196</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Weather   | Aeronautical Weather Reports   | ATIS                        |
| <b>PLT202</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Navigation  | Radio                          | DME ARC                     |
| <b>PLT208</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Flight Operations   | Emergency Procedures           | Declare an Emergency        |
| Flight Operations   | Emergency Procedures           | Lost Communications         |
| <b>PLT215</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Aircraft Systems  | Flight Instruments             | Compass                     |
| Instrument Procedures   | Attitude Instrument Flying     | Bank                        |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                                |                             |
| Aircraft Systems  | Flight Instruments             | Compass                     |
| <b>PLT220</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Instrument Procedures   | En Route                       | Altitudes                   |
| <b>PLT224</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Instrument Procedures   | Air Traffic Control            | ATC Clearance               |
| <a href="#">Airport/Facility Directory</a>                                |                                |                             |
| Instrument Procedures   | Departure                      | Departure Procedures Charts |
| <b>PLT237</b>   |                                |                             |
| <a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a>                   |                                |                             |
| Aerodynamics  | Principles of Flight           | Horizontal Lift             |
| <b>PLT277</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Navigation  | Radio                          | ILS                         |
| <b>PLT278</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Instrument Procedures   | Attitude Instrument Flying     | Airspeed Changes            |
| Instrument Procedures   | Attitude Instrument Flying     | Bank                        |
| Instrument Procedures   | Attitude Instrument Flying     | Pitch                       |
| <b>PLT280</b>   |                                |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                                |                             |
| Human Factors   | Aeromedical                    | Illusions in Flight         |
| <b>PLT281</b>   |                                |                             |
| <a href="#">Airport/Facility Directory</a>                                |                                |                             |
| Publications  | Airport Facility Directory     | Airport Remarks             |
| <b>PLT288</b>   |                                |                             |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                                |                             |
| Weather   | Aeronautical Weather Forecasts | TAF                         |
| <b>PLT290</b>   |                                |                             |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                                |                             |
| Weather   | Aeronautical Weather Reports   | Icing                       |
| Weather   | Aeronautical Weather Reports   | SIGMETS                     |
| <b>PLT292</b>   |                                |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                                |                             |
| Instrument Procedures   | Approach Procedures            | Visual / Contact            |
| Publications  | Aeronautical Charts            | Terminal Procedures         |

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|---|----------------------|--|-----------------------------------|
| <b>PLT296</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Flight Operations   | Landing              |  | Circling                          |
| Instrument Procedures                                     | Approach Procedures  |  | Holding                           |
| Instrument Procedures                                     | En Route             |  | Holding                           |
| <b>PLT298</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Airspace  | Controlled           |  | Class A                           |
| Instrument Procedures                                     | Air Traffic Control  |  | Reporting                         |
| <b>PLT300</b>   |                      |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                      |  |                                   |
| Regulations   | 14CFR Part 91        |  | VOR Check                         |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Navigation  | Radio                |  | VOR Check                         |
| <b>PLT317</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Weather   | Hazardous            |  | Microburst                        |
| <b>PLT318</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Instrument Procedures                                     | Air Traffic Control  |  | Reporting                         |
| <b>PLT321</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Instrument Procedures                                     | Approach Procedures  |  | ILS                               |
| Instrument Procedures                                     | Approach Procedures  |  | Parallel Approaches               |
| <b>PLT322</b>   |                      |  |                                   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                      |  |                                   |
| Navigation  | Radio                |  | VOR                               |
| <b>PLT323</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Air Traffic Control Procedures                            | Arrival              |  | NOTAMS                            |
| <b>PLT334</b>   |                      |  |                                   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                      |  |                                   |
| Human Factors   | Aeromedical          |  | Spatial Disorientation            |
| <b>PLT345</b>   |                      |  |                                   |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                      |  |                                   |
| Weather   | Meteorology          |  | Pressure                          |
| <b>PLT354</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Publications  | AIM                  |  | Navigation Aids                   |
| <b>PLT363</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Navigation  | Radio                |  | VOR Check                         |
| <b>PLT366</b>   |                      |  |                                   |
| <a href="#">49 CFR 830</a>                                |                      |  |                                   |
| Regulations   | NTSB Part 830        |  | Accident/Incident Reporting       |
| <b>PLT370</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Instrument Procedures                                     | Air Traffic Control  |  | ATC Clearance                     |
| Instrument Procedures                                     | Radar Operations     |  | Approach Vectors                  |
| <b>PLT379</b>   |                      |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                      |  |                                   |
| Regulations   | 14CFR Part 91        |  | Alternate Airport                 |
| <b>PLT382</b>   |                      |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                      |  |                                   |
| Instrument Procedures                                     | Approach Procedures  |  | Minimums                          |
| <b>PLT403</b>   |                      |  |                                   |
| <a href="#">Aeronautical Information Manual</a>           |                      |  |                                   |
| Flight Operations   | Emergency Procedures |  | Clearance Deviation               |
| <b>PLT405</b>   |                      |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                      |  |                                   |
| Regulations   | 14CFR Part 91        |  | Instrument/Equipment Requirements |
| <b>PLT413</b>   |                      |  |                                   |
| <a href="#">14 CFR 91</a>                                 |                      |  |                                   |
| Regulations   | 14CFR Part 91        |  | Fuel Requirements                 |

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|--|---------------|-----------------------------------|
| <b>PLT421</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Clearance / Fight Plan            |
| <b>PLT429</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Instrument/Equipment Requirements |
| <b>PLT430</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | IFR Minimum Altitudes             |
| <b>PLT438</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Supplemental Oxygen               |
| <b>PLT442</b><br><a href="#">14 CFR 61</a><br>Regulations                                | 14CFR Part 61 | Currency                          |
| <b>PLT444</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Preflight Action                  |
| <b>PLT445</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Preflight Action                  |
| <a href="#">Aeronautical Information Manual</a><br>Publications                          | AIM           | Aeronautical Information          |
| <b>PLT451</b><br><a href="#">14 CFR 61</a><br>Regulations                                | 14CFR Part 61 | Limitations                       |
| <b>PLT454</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Altimeter System Test             |
| <b>PLT455</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | VOR Check                         |
| <b>PLT455</b><br><a href="#">14 CFR 91</a><br>Regulations                                | 14CFR Part 91 | Clearance / Fight Plan            |
| <a href="#">Aeronautical Information Manual</a><br>Publications                          | AIM           | FSS                               |
| <b>PLT492</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Temperature                       |
| <b>PLT507</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation | Radio         | VOR Check                         |
| <b>PLT508</b><br><a href="#">Aeronautical Information Manual</a><br>Navigation           | Radio         | VOR Check                         |
| <b>PLT510</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Circulation                       |
| <b>PLT511</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Air Masses                        |
| <b>PLT512</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Moisture                          |
| <b>PLT516</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Wind                              |
| <b>PLT518</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology   | Thunderstorms                     |
| <a href="#">Aeronautical Information Manual</a><br>Weather                               | Meteorology   | Windshear                         |
| <a href="#">Aeronautical Information Manual</a><br>Weather                               | Hazardous     | Windshear                         |

**Flight Instructor Instrument—Airplane (FI)**  
**Sample Questions**

## FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE (FII)

**1. What is the relationship between centrifugal force and the horizontal lift component in a coordinated turn?**

- A—Horizontal lift exceeds centrifugal force.
- B—Horizontal lift and centrifugal force are equal.
- C—Centrifugal force exceeds horizontal lift.

*Answer: B.*

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

**2. What information does a Mach meter present?**

- A—The ratio of aircraft true airspeed to the speed of sound.
- B—The ratio of aircraft indicated airspeed to the speed of sound.
- C—the ratio of aircraft equivalent airspeed, corrected for installation error, to the speed of sound.

*Answer: A.*

*Learning Statement: Interpret a MACH meter reading.*

**3. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter**

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

**4. In which airspace is VFR on Top operation prohibited?**

- A—Class B airspace.
- B—Class E airspace.
- C—Class A airspace.

*Answer: C.*

*Learning Statement: Recall airspace classes—limits/requirements/restrictions/airspeeds/equipment.*

**5. If a helicopter is in an unusual flight attitude and the attitude indicator has exceeded its limits, which instruments should the pilot use to determine pitch attitude before starting recovery?**

- A—Turn indicator and VSI.
- B—Airspeed, VSI, and altimeter.
- C—VSI and airspeed to detect approaching  $V_{mo}$ .

*Answer: B.*

*Learning Statement: Recall instrument procedures—unusual attitude/unusual attitude recovery.*



## LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE (FII)

| <i>Topic</i>  | <i>Content</i>               | <i>Specific</i>                     |
|---|------------------------------|-------------------------------------|
| <b>PLT004</b>   |                              |                                     |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                                     |
| Instrument Procedures   | Flight Planning              | Departure Climb                     |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |                                     |
| Instrument Procedures   | Flight Planning              | Departure Climb                     |
| <b>PLT012</b>   |                              |                                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                                     |
| Instrument Procedures   | Flight Planning              | Enroute                             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |                                     |
| Instrument Procedures   | Flight Planning              | Enroute                             |
| <b>PLT033</b>   |                              |                                     |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                                     |
| Instrument Procedures   | En Route                     | Altitudes                           |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                                     |
| Instrument Procedures   | En Route                     | Altitudes                           |
| <b>PLT041</b>   |                              |                                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                                     |
| Aircraft Systems  | Flight Instruments           | Altimeter                           |
| Instrument Procedures   | Basic Flight Instruments     | Altimeter                           |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |                                     |
| Aircraft Systems  | Pitot/Static                 | Altimeter                           |
| <b>PLT044</b>   |                              |                                     |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                                     |
| Flight Operations   | Approach                     | Side-Step Maneuver                  |
| Instrument Procedures   | Air Traffic Control          | ATC Clearance                       |
| Instrument Procedures   | Communications               | Terminology                         |
| <b>PLT049</b>   |                              |                                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                                     |
| Navigation  | Radio                        | ILS                                 |
| <b>PLT052</b>   |                              |                                     |
| <a href="#">U.S. Terminal Procedures</a>                                  |                              |                                     |
| Flight Operations   | Emergency Procedures         | Lost Communications                 |
| Instrument Procedures   | Departure                    | Departure Procedures Charts         |
| Instrument Procedures   | Flight Planning              | Departure Climb                     |
| <b>PLT058</b>   |                              |                                     |
| <a href="#">IFR Enroute Low Altitude Chart</a>                            |                              |                                     |
| Publications  | Aeronautical Charts          | IFR En Route                        |
| <b>PLT059</b>   |                              |                                     |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                              |                                     |
| Weather   | Aeronautical Weather Reports | METAR                               |
| <b>PLT061</b>   |                              |                                     |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                              |                                     |
| Weather   | Aeronautical Weather Reports | PIREP                               |
| <b>PLT066</b>   |                              |                                     |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                              |                                     |
| Weather   | Charts/Maps                  | Severe Weather Outlook Charts       |
| <b>PLT068</b>   |                              |                                     |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                              |                                     |
| Weather   | Charts/Maps                  | High-Level Significant Weather Prog |
| <b>PLT080</b>   |                              |                                     |
| <a href="#">STARs - Standard Terminal Arrivals</a>                        |                              |                                     |
| Publications  | Aeronautical Charts          | Terminal Procedures                 |
| <b>PLT082</b>   |                              |                                     |
| <a href="#">14 CFR 91</a>   |                              |                                     |
| Instrument Procedures   | Approach Procedures          | Minimums                            |
| <a href="#">Instrument Procedures Handbook, FAA-H-8261-1</a>              |                              |                                     |
| Instrument Procedures   | Approach Procedures          | Minimums                            |

**PLT083**[Aeronautical Information Manual](#)

|  |                     |                     |
|--|---------------------|---------------------|
| Instrument Procedures                                | Approach Procedures | Timed Approach      |
| Publications   | Aeronautical Charts | Terminal Procedures |
| Publications   | AIM                 | Navigation Aids     |
| <a href="#">Instrument Approach Procedure Charts</a> |                     |                     |
| Flight Operations                                    | Approach            | Descent Rate        |
| <a href="#">U.S. Terminal Procedures</a>             |                     |                     |
| Publications   | Aeronautical Charts | Terminal Procedures |

**PLT084**[AC 00-45 Aviation Weather Services](#)

|         |             |                      |
|---------|-------------|----------------------|
| Weather | Charts/Maps | Observed Winds Aloft |
|---------|-------------|----------------------|

**PLT088**[AC 91-43 Unreliable Airspeed Indication](#)

|                  |              |          |
|------------------|--------------|----------|
| Aircraft Systems | Pitot/Static | Blockage |
|------------------|--------------|----------|

**PLT090**[Aeronautical Information Manual](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[IFR Enroute Low Altitude Chart](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT091**[Instrument Flying Handbook, FAA-H-8083-15](#)

|            |       |         |
|------------|-------|---------|
| Navigation | Radio | ADF/NDB |
|------------|-------|---------|

|            |       |     |
|------------|-------|-----|
| Navigation | Radio | VOR |
|------------|-------|-----|

**PLT100**[Aeronautical Information Manual](#)

|                   |                      |                     |
|-------------------|----------------------|---------------------|
| Flight Operations | Emergency Procedures | Lost Communications |
| Publications      | AIM                  | Navigation Aids     |

**PLT102**[Instrument Approach Procedure Charts](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

[STARs - Standard Terminal Arrivals](#)

|              |                     |                     |
|--------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
|--------------|---------------------|---------------------|

**PLT105**[AC 00-6 Aviation Weather](#)

|                  |          |       |
|------------------|----------|-------|
| Aircraft Systems | Avionics | Radar |
|------------------|----------|-------|

**PLT118**[Instrument Flying Handbook, FAA-H-8083-15](#)

|                       |                          |                    |
|-----------------------|--------------------------|--------------------|
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
|-----------------------|--------------------------|--------------------|

**PLT141**[Aeronautical Information Manual](#)

|                    |          |                 |
|--------------------|----------|-----------------|
| Airport Operations | Lighting | Rotating Beacon |
|--------------------|----------|-----------------|

|                    |                 |        |
|--------------------|-----------------|--------|
| Airport Operations | Marking / Signs | Runway |
|--------------------|-----------------|--------|

|                    |                 |         |
|--------------------|-----------------|---------|
| Airport Operations | Marking / Signs | Taxiway |
|--------------------|-----------------|---------|

**PLT161**[14 CFR 91](#)

|             |               |             |
|-------------|---------------|-------------|
| Regulations | 14CFR Part 91 | Transponder |
|-------------|---------------|-------------|

[Aeronautical Information Manual](#)

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class A |
|----------|------------|---------|

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class B |
|----------|------------|---------|

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class E |
|----------|------------|---------|

|          |             |     |
|----------|-------------|-----|
| Airspace | Special Use | MOA |
|----------|-------------|-----|

|          |              |         |
|----------|--------------|---------|
| Airspace | Uncontrolled | Class G |
|----------|--------------|---------|

**PLT163**[14 CFR 91](#)

|          |            |         |
|----------|------------|---------|
| Airspace | Controlled | Class E |
|----------|------------|---------|

|                       |          |            |
|-----------------------|----------|------------|
| Instrument Procedures | En Route | VFR on Top |
|-----------------------|----------|------------|

**PLT165**[AC 00-6 Aviation Weather](#)

|         |             |             |
|---------|-------------|-------------|
| Weather | Meteorology | Temperature |
|---------|-------------|-------------|

|   |                              |                      |
|---|------------------------------|----------------------|
| <b>PLT166</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Instrument Procedures   | En Route                     | Altimeter Settings   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Instrument Procedures   | Attitude Instrument Flying   | Airspeed Changes     |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |                      |
| Aircraft Systems  | Flight Instruments           | Altimeter            |
| <b>PLT170</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Instrument Procedures   | Approach Procedures          | Approach Category    |
| Instrument Procedures   | Approach Procedures          | Course Reversal      |
| Instrument Procedures   | Approach Procedures          | Missed Approach      |
| <b>PLT171</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Instrument Procedures   | Air Traffic Control          | Reporting            |
| <b>PLT172</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Instrument Procedures   | Approach Procedures          | Visual / Contact     |
| <b>PLT173</b>   |                              |                      |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |                      |
| Weather   | Meteorology                  | Stability            |
| <b>PLT185</b>   |                              |                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Instrument Procedures   | Attitude Instrument Flying   | Airspeed Changes     |
| Instrument Procedures   | Attitude Instrument Flying   | Bank                 |
| Instrument Procedures   | Attitude Instrument Flying   | Fundamental Skills   |
| <b>PLT186</b>   |                              |                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Instrument Procedures   | Attitude Instrument Flying   | Bank                 |
| Instrument Procedures   | Attitude Instrument Flying   | Pitch                |
| <b>PLT187</b>   |                              |                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Instrument Procedures   | Attitude Instrument Flying   | Bank                 |
| Instrument Procedures   | Basic Flight Instruments     | Turn Coordinator     |
| <b>PLT192</b>   |                              |                      |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |                      |
| Weather   | Meteorology                  | Clouds               |
| <b>PLT196</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Weather   | Aeronautical Weather Reports | ATIS                 |
| <b>PLT202</b>   |                              |                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Navigation  | Radio                        | DME                  |
| Navigation  | Radio                        | DME ARC              |
| <b>PLT203</b>   |                              |                      |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |                      |
| Weather   | Meteorology                  | Upper Air Data       |
| <b>PLT208</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Flight Operations   | Emergency Procedures         | Declare an Emergency |
| Flight Operations   | Emergency Procedures         | Lost Communications  |
| <b>PLT215</b>   |                              |                      |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |                      |
| Aircraft Systems  | Flight Instruments           | Compass              |
| Instrument Procedures   | Attitude Instrument Flying   | Bank                 |
| Instrument Procedures   | Basic Flight Instruments     | Magnetic Compass     |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |                      |
| Aircraft Systems  | Flight Instruments           | Compass              |
| Instrument Procedures   | Basic Flight Instruments     | Magnetic Compass     |
| <b>PLT220</b>   |                              |                      |
| <a href="#">Aeronautical Information Manual</a>                           |                              |                      |
| Instrument Procedures   | En Route                     | Altitudes            |

**PLT224**[Aeronautical Information Manual](#)

Instrument Procedures      Air Traffic Control      ATC Clearance

[Airport/Facility Directory](#)

Instrument Procedures      Departure      Departure Procedures Charts

**PLT226**[AC 00-6 Aviation Weather](#)

Weather      Meteorology      Fog

**PLT237**[Airplane Flying Handbook, FAA-H-8083-3A](#)

Aerodynamics      Principles of Flight      Horizontal Lift

**PLT248**[Instrument Flying Handbook, FAA-H-8083-15](#)

Aerodynamics      Principles of Flight      Horizontal Lift

**PLT263**[AC 00-6 Aviation Weather](#)

Weather      Meteorology      Turbulence

**PLT275**[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation      Radio      ILS

Navigation      Radio      VOR

**PLT276**[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation      Radio      VOR

**PLT277**[AC 00-54 Pilot Wind Shear Guide](#)

Flight Operations      Approach      Descent Rate

**PLT278**[Instrument Flying Handbook, FAA-H-8083-15](#)

Instrument Procedures      Attitude Instrument Flying      Airspeed Changes

Instrument Procedures      Attitude Instrument Flying      Bank

Instrument Procedures      Attitude Instrument Flying      Climb

Instrument Procedures      Attitude Instrument Flying      Pitch

**PLT280**[Instrument Flying Handbook, FAA-H-8083-15](#)

Human Factors      Aeromedical      Illusions in Flight

**PLT281**[Airport/Facility Directory](#)

Publications      Airport Facility Directory      EFAS

Publications      Airport Facility Directory      Weather Data Sources

**PLT284**[AC 00-45 Aviation Weather Services](#)

Weather      Aeronautical Weather Forecasts      Winds/Temperatures Aloft Forecast (FD)

**PLT288**[AC 00-45 Aviation Weather Services](#)

Weather      Aeronautical Weather Forecasts      TAF

**PLT290**[AC 00-45 Aviation Weather Services](#)

Weather      Aeronautical Weather Reports      AIRMETS

Weather      Aeronautical Weather Reports      Icing

**PLT292**[Aeronautical Information Manual](#)

Instrument Procedures      Approach Procedures      Visual / Contact

Instrument Procedures      En Route      Altitudes

Publications      Aeronautical Charts      Terminal Procedures

[Instrument Procedures Handbook, FAA-H-8261-1](#)

Air Traffic Control Procedures      Approach      Precision Runway Monitoring

**PLT293**[Aeronautical Information Manual](#)

Instrument Procedures      Departure      Departure Procedures Charts

**PLT296**[Aeronautical Information Manual](#)

Instrument Procedures      Approach Procedures      Missed Approach

Instrument Procedures      En Route      Holding

|   |                            |                                |
|---|----------------------------|--------------------------------|
| <b>PLT297</b>   |                            |                                |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                            |                                |
| Instrument Procedures                                     | Attitude Instrument Flying | Instrument Malfunction         |
| Instrument Procedures                                     | Attitude Instrument Flying | Unusual Attitude Recovery      |
| <b>PLT298</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Airspace  | Controlled                 | Class A                        |
| Instrument Procedures                                     | En Route                   | VFR on Top                     |
| <b>PLT300</b>   |                            |                                |
| <a href="#">14 CFR 91</a>                                 |                            |                                |
| Regulations   | 14CFR Part 91              | VOR Check                      |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Navigation  | Radio                      | VOR Check                      |
| <b>PLT301</b>   |                            |                                |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                            |                                |
| Weather   | Meteorology                | Temperature                    |
| <b>PLT302</b>   |                            |                                |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                            |                                |
| Weather   | Meteorology                | Jet Stream                     |
| <b>PLT317</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Weather   | Hazardous                  | Microburst                     |
| Weather   | Hazardous                  | Windshear                      |
| <b>PLT318</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Instrument Procedures                                     | Air Traffic Control        | Reporting                      |
| <b>PLT322</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Navigation  | Radio                      | VOR                            |
| <b>PLT323</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Instrument Procedures                                     | Flight Planning            | NOTAMS                         |
| <b>PLT330</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Human Factors   | Aeromedical                | Physiological                  |
| <b>PLT334</b>   |                            |                                |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                            |                                |
| Human Factors   | Aeromedical                | Spatial Disorientation         |
| <b>PLT337</b>   |                            |                                |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                            |                                |
| Instrument Procedures                                     | Basic Flight Instruments   | Altimeter                      |
| <b>PLT344</b>   |                            |                                |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                            |                                |
| Weather   | Meteorology                | Precipitation                  |
| <b>PLT345</b>   |                            |                                |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                            |                                |
| Weather   | Meteorology                | Pressure                       |
| <b>PLT361</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Publications  | AIM                        | Navigation Aids                |
| <b>PLT363</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Navigation  | Radio                      | VOR Check                      |
| <b>PLT370</b>   |                            |                                |
| <a href="#">14 CFR 91</a>                                 |                            |                                |
| Regulations   | 14CFR Part 91              | Clearance / Flight Plan        |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Instrument Procedures                                     | Air Traffic Control        | ATC Clearance                  |
| <b>PLT403</b>   |                            |                                |
| <a href="#">Aeronautical Information Manual</a>           |                            |                                |
| Flight Operations   | Emergency Procedures       | Clearance Deviation            |
| <b>PLT409</b>   |                            |                                |
| <a href="#">14 CFR 61</a>                                 |                            |                                |
| Regulations   | 14CFR Part 61              | Logging Instrument Flight Time |

|   |  |                                |
|---|--|--------------------------------|
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Fuel Requirements              |
| <b>PLT420</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures | Approach Procedures  | Parallel Approaches            |
| <b>PLT430</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | IFR Minimum Altitudes          |
| <b>PLT442</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61  | Currency                       |
|   | 14CFR Part 61  | Logging Instrument Flight Time |
| <b>PLT443</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Safety Plot Requirements       |
| <b>PLT444</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Preflight Action               |
| <a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                  | Air Traffic Control  | Collision Avoidance            |
| <b>PLT445</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Preflight Action               |
| <b>PLT451</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61  | Limitations                    |
| <b>PLT454</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Altimeter System Test          |
|   | 14CFR Part 91  | VOR Check                      |
| <b>PLT455</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Clearance / Flight Plan        |
| <b>PLT495</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology  | Thunderstorms                  |
| <b>PLT507</b><br><a href="#">Aeronautical Information Manual</a><br>Navigation            | Radio  | VOR Check                      |
|   | <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Radio | VOR                            |
| <b>PLT508</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91  | Altimeter System Test          |
| <a href="#">Aeronautical Information Manual</a><br>Navigation                             | Radio  | VOR Check                      |
| <b>PLT510</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology  | Circulation                    |
| Weather   | Meteorology  | Solar Energy                   |
| <b>PLT511</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology  | Air Masses                     |
| Weather   | Meteorology  | Fronts                         |
| <b>PLT512</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology  | Moisture                       |
| <b>PLT515</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather            | Aeronautical Weather Reports                                       | HIWAS                          |
| <b>PLT516</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology  | Wind                           |

**PLT518**

[AC 00-54 Pilot Wind Shear Guide](#)

Weather Meteorology

Windshear

[AC 00-6 Aviation Weather](#)

Weather Meteorology

Thunderstorms

Weather Meteorology

Windshear

[Aeronautical Information Manual](#)

Weather Hazardous

Windshear

**Flight Instructor Instrument—Helicopter (FIH)  
Sample Questions**



## FLIGHT INSTRUCTOR INSTRUMENT—HELICOPTER (FIH)

### 1. What force causes a helicopter to turn?

- A—Rudder pressure or force around the vertical axis.
- B—Vertical lift component.
- C—Horizontal lift component.

*Answer: C.*

*Learning Statement: Recall forces acting on aircraft—turns.*

### 2. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

### 3. Which use of cockpit lighting is correct for night flight?

- A—Reducing the interior lighting intensity to a minimum level.
- B—The use of regular white light, such as a flashlight, will not impair night adaptation.
- C—Coloration shown on maps is least affected by the use of direct red lighting.

*Answer: A.*

*Learning Statement: Recall physiological factors—night vision.*

### 4. If a helicopter is in an unusual flight attitude and the attitude indicator has exceeded its limits, which instruments should the pilot use to determine pitch attitude before starting recovery?

- A—Turn indicator and VSI.
- B—Airspeed, VSI, and altimeter.
- C—VSI and airspeed to detect approaching  $V_{mo}$ .

*Answer: B.*

*Learning Statement: Recall instrument procedures—unusual attitude/unusual attitude recovery.*

### 5. Which instrument provides the most pertinent information (primary) for pitch control in straight and level flight?

- A—Attitude indicator.
- B—Airspeed indicator.
- C—Altimeter.

*Answer: C.*

*Learning Statement: Recall pitch control—collective/cyclic.*

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR INSTRUMENT—HELICOPTER (FIH)

| <i>Topic</i>  | <i>Content</i>               | <i>Specific</i>                    |
|---|------------------------------|------------------------------------|
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Flight Planning              | Enroute                            |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                     | Altitudes                          |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                  | En Route                     | Altitudes                          |
| <b>PLT041</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems      | Flight Instruments           | Altimeter                          |
| Instrument Procedures   | Basic Flight Instruments     | Altimeter                          |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Air Traffic Control          | ATC Clearance                      |
| <b>PLT052</b><br><a href="#">U.S. Terminal Procedures</a><br>Flight Operations                      | Emergency Procedures         | Lost Communications                |
| Instrument Procedures   | Flight Planning              | Departure Climb                    |
| <b>PLT058</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Publications                     | Aeronautical Charts          | IFR En Route                       |
| <b>PLT059</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Reports | METAR                              |
| <b>PLT063</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Charts/Maps                  | Radar Summary Charts               |
| <b>PLT066</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Charts/Maps                  | Severe Weather Outlook Charts      |
| <b>PLT068</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Charts/Maps                  | Low-Level Significant Weather Prog |
| <b>PLT071</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Charts/Maps                  | Surface Analysis Charts            |
| <b>PLT083</b><br><a href="#">14 CFR 97</a><br>Instrument Procedures                                 | Approach Procedures          | Minimums                           |
| Regulations   | 14CFR Part 97                | Copter Procedures                  |
| <a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                            | Approach Procedures          | COPTER                             |
| Instrument Procedures   | Approach Procedures          | Course Reversal                    |
| Publications  | Aeronautical Charts          | Terminal Procedures                |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Regulations                            | 14CFR Part 97                | Copter Procedures                  |
| <a href="#">U.S. Terminal Procedures</a><br>Instrument Procedures                                   | Approach Procedures          | Minimums                           |
| Publications  | Aeronautical Charts          | Terminal Procedures                |
| Regulations   | 14CFR Part 97                | Copter Procedures                  |
| <b>PLT086</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Basic Flight Instruments     | Turn-and-Slip Indicator            |
| <a href="#">Rotorcraft Flying Handbook, FAA-H-8083-21</a><br>Instrument Procedures                  | Basic Flight Instruments     | Turn-and-Slip Indicator            |

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|---|----------------------------|--|-------------------------|
| <b>PLT090</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Navigation  | Radio                      |  | VOR                     |
| <a href="#">IFR Enroute Low Altitude Chart</a>                            |                            |  |                         |
| Navigation  | Radio                      |  | VOR                     |
| <b>PLT091</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Navigation  | Radio                      |  | ADF/NDB                 |
| Navigation  | Radio                      |  | VOR                     |
| <b>PLT100</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Flight Operations   | Emergency Procedures       |  | Lost Communications     |
| Publications  | AIM                        |  | Navigation Aids         |
| <b>PLT102</b>   |                            |  |                         |
| <a href="#">U.S. Terminal Procedures</a>                                  |                            |  |                         |
| Publications  | Aeronautical Charts        |  | Terminal Procedures     |
| <b>PLT118</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Basic Flight Instruments   |  | Gyroscopic Systems      |
| <b>PLT141</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Airport Operations  | Marking / Signs            |  | Runway                  |
| Airport Operations  | Marking / Signs            |  | Taxiway                 |
| <b>PLT161</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Airspace  | Controlled                 |  | Class B                 |
| Airspace  | Controlled                 |  | Class D                 |
| Airspace  | Controlled                 |  | Class E                 |
| Airspace  | Special Use                |  | MOA                     |
| Airspace  | Uncontrolled               |  | Class G                 |
| <b>PLT162</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Airspace  | Controlled                 |  | Class E                 |
| <b>PLT163</b>   |                            |  |                         |
| <a href="#">14 CFR 91</a>   |                            |  |                         |
| Instrument Procedures   | En Route                   |  | VFR on Top              |
| <b>PLT165</b>   |                            |  |                         |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                            |  |                         |
| Weather   | Meteorology                |  | Temperature             |
| <b>PLT166</b>   |                            |  |                         |
| <a href="#">Aeronautical Information Manual</a>                           |                            |  |                         |
| Instrument Procedures   | En Route                   |  | Altimeter Settings      |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                            |  |                         |
| Aircraft Systems  | Flight Instruments         |  | Altimeter               |
| <b>PLT175</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Attitude Instrument Flying |  | Pitch                   |
| <b>PLT185</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Attitude Instrument Flying |  | Bank                    |
| Instrument Procedures   | Attitude Instrument Flying |  | Fundamental Skills      |
| Instrument Procedures   | Attitude Instrument Flying |  | Pitch                   |
| Instrument Procedures   | Attitude Instrument Flying |  | Power                   |
| Instrument Procedures   | Basic Flight Instruments   |  | Turn-and-Slip Indicator |
| <b>PLT186</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Attitude Instrument Flying |  | Bank                    |
| <b>PLT187</b>   |                            |  |                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                            |  |                         |
| Instrument Procedures   | Attitude Instrument Flying |  | Fundamental Skills      |
| Instrument Procedures   | Basic Flight Instruments   |  | Turn Coordinator        |
| Instrument Procedures   | Basic Flight Instruments   |  | Turn-and-Slip Indicator |

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|---|--------------------------------|------------------------------|
| <b>PLT192</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology                    | Clouds                       |
| <b>PLT196</b><br><a href="#">Aeronautical Information Manual</a><br>Weather                         | Aeronautical Weather Reports   | ATIS                         |
| <b>PLT202</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation            | Radio                          | DME                          |
| <b>PLT208</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations               | Emergency Procedures           | Declare an Emergency         |
| Flight Operations   | Emergency Procedures           | Lost Communications          |
| <b>PLT215</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Basic Flight Instruments       | Magnetic Compass             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems       | Flight Instruments             | Compass                      |
| <b>PLT224</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Air Traffic Control            | ATC Clearance                |
| Instrument Procedures   | Flight Planning                | Flight Plan                  |
| <a href="#">Airport/Facility Directory</a><br>Instrument Procedures                                 | Departure                      | Departure Procedures Charts  |
| <b>PLT226</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology                    | Fog                          |
| <b>PLT274</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aerodynamics                           | Flight Characteristics         | Icing                        |
| <b>PLT277</b><br><a href="#">AC 00-54 Pilot Wind Shear Guide</a><br>Flight Operations               | Approach                       | Descent Rate                 |
| <b>PLT278</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Attitude Instrument Flying     | Pitch                        |
| Instrument Procedures   | Basic Flight Instruments       | Attitude Indicator           |
| <b>PLT280</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Human Factors         | Aeromedical                    | Illusions in Flight          |
| <b>PLT290</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Reports   | SIGMETs                      |
| <b>PLT291</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA) |
| <b>PLT292</b><br><a href="#">Aeronautical Information Manual</a><br>Publications                    | Aeronautical Charts            | Terminal Procedures          |
| <b>PLT293</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Departure                      | Departure Procedures Charts  |
| <b>PLT296</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                       | Holding                      |
| <b>PLT298</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Air Traffic Control            | Reporting                    |
| <b>PLT300</b><br><a href="#">Aeronautical Information Manual</a><br>Navigation                      | Radio                          | VOR Check                    |
| <b>PLT301</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology                    | Temperature                  |

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|---|------------------------|--|-----------------------------------|
| <b>PLT317</b>   |                        |  |                                   |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Weather   | Hazardous              |  | Microburst                        |
| Weather   | Hazardous              |  | Windshear                         |
| <b>PLT334</b>   |                        |  |                                   |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                        |  |                                   |
| Human Factors   | Aeromedical            |  | Spatial Disorientation            |
| <b>PLT344</b>   |                        |  |                                   |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                        |  |                                   |
| Weather   | Meteorology            |  | Air Masses                        |
| Weather   | Meteorology            |  | Precipitation                     |
| <b>PLT353</b>   |                        |  |                                   |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                        |  |                                   |
| Weather   | Charts/Maps            |  | Radar Summary Charts              |
| <b>PLT354</b>   |                        |  |                                   |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Navigation  | Radio                  |  | GPS                               |
| <b>PLT370</b>   |                        |  |                                   |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Instrument Procedures   | Air Traffic Control    |  | ATC Clearance                     |
| <b>PLT382</b>   |                        |  |                                   |
| <a href="#">14 CFR 97</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 97          |  | Copter Procedures                 |
| <b>PLT403</b>   |                        |  |                                   |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Flight Operations   | Emergency Procedures   |  | Clearance Deviation               |
| <b>PLT411</b>   |                        |  |                                   |
| <a href="#">14 CFR 61</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 61          |  | Currency                          |
| Regulations   | 14CFR Part 61          |  | Limitations                       |
| <b>PLT413</b>   |                        |  |                                   |
| <a href="#">14 CFR 91</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 91          |  | Fuel Requirements                 |
| <b>PLT420</b>   |                        |  |                                   |
| <a href="#">14 CFR 91</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 91          |  | Takeoff / Landing - IFR           |
| <a href="#">14 CFR 97</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 97          |  | Copter Procedures                 |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Instrument Procedures   | Approach Procedures    |  | Course Reversal                   |
| <b>PLT429</b>   |                        |  |                                   |
| <a href="#">14 CFR 91</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 91          |  | Instrument/Equipment Requirements |
| <b>PLT430</b>   |                        |  |                                   |
| <a href="#">14 CFR 91</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 91          |  | IFR Minimum Altitudes             |
| <b>PLT434</b>   |                        |  |                                   |
| <a href="#">Aeronautical Information Manual</a>                           |                        |  |                                   |
| Instrument Procedures   | Approach Procedures    |  | Visual / Contact                  |
| <b>PLT442</b>   |                        |  |                                   |
| <a href="#">14 CFR 61</a>   |                        |  |                                   |
| Regulations   | 14CFR Part 61          |  | Currency                          |
| <b>PLT475</b>   |                        |  |                                   |
| <a href="#">AC 00-45 Aviation Weather Services</a>                        |                        |  |                                   |
| Weather   | Meteorology            |  | Squalls                           |
| <b>PLT493</b>   |                        |  |                                   |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                        |  |                                   |
| Aerodynamics  | Flight Characteristics |  | Icing                             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                        |  |                                   |
| Weather   | Meteorology            |  | Icing                             |
| <b>PLT495</b>   |                        |  |                                   |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                        |  |                                   |
| Weather   | Meteorology            |  | Thunderstorms                     |

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|--|--------------------------------|------------------------------|
| <b>PLT501</b><br><a href="#">Aeronautical Information Manual</a><br>Weather              | Aeronautical Weather Reports   | PIREP                        |
| <b>PLT507</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation | Radio                          | VOR                          |
| <b>PLT510</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology                    | Solar Energy                 |
| <b>PLT511</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology                    | Air Masses                   |
|  | Meteorology                    | Fronts                       |
| <b>PLT513</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather           | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA) |
| <b>PLT516</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology                    | Wind                         |
| <b>PLT518</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                     | Meteorology                    | Windshear                    |
| <a href="#">Aeronautical Information Manual</a><br>Weather                               | Hazardous                      | Windshear                    |

**Flight Instructor Instrument—Airplane—Added Rating (AIF)  
Sample Questions**

## FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE—ADDED RATING (AIF)

**1. What is the relationship between centrifugal force and the horizontal lift component in a coordinated turn?**

- A—Horizontal lift exceeds centrifugal force.
- B—Horizontal lift and centrifugal force are equal.
- C—Centrifugal force exceeds horizontal lift.

*Answer: B.*

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

**2. What information does a Mach meter present?**

- A—The ratio of aircraft true airspeed to the speed of sound.
- B—The ratio of aircraft indicated airspeed to the speed of sound.
- C—the ratio of aircraft equivalent airspeed, corrected for installation error, to the speed of sound.

*Answer: A.*

*Learning Statement: Interpret a MACH meter reading.*

**3. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter**

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

**4. During a precision radar or ILS approach, the rate of descent required to remain on the glideslope will**

- A—remain the same regardless of ground speed.
- B—increase as the ground speed increases.
- C—decreases as the ground speed increases.

*Answer: B.*

*Learning Statement: Recall ILS—marker beacon/indicator lights/codes.*

**5. Which instrument provides the most pertinent information (primary) for pitch control in straight and level flight?**

- A—Attitude indicator.
- B—Airspeed indicator.
- C—Altimeter.

*Answer: C.*

*Learning Statement: Recall pitch control—collective/cyclic.*



## LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE—ADDED RATING (AIF)

| <i>Topic</i>  | <i>Content</i>             | <i>Specific</i>            |
|---|----------------------------|----------------------------|
| <b>PLT004</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures | Flight Planning            | Departure Climb            |
| <b>PLT012</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures | Flight Planning            | Enroute                    |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | En Route                   | Altitudes                  |
| <b>PLT041</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | En Route                   | Altimeter Settings         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                                       | Flight Instruments         | Altimeter                  |
| Instrument Procedures   | Basic Flight Instruments   | Altimeter                  |
| <b>PLT058</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Instrument Procedures                            | En Route                   | VFR on Top                 |
| Publications  | Aeronautical Charts        | IFR En Route               |
| <b>PLT083</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Approach Procedures        | Timed Approach             |
| Publications  | Aeronautical Charts        | Terminal Procedures        |
| <a href="#">Instrument Approach Procedure Charts</a><br>Flight Operations   | Approach                   | Descent Rate               |
| <a href="#">U.S. Terminal Procedures</a><br>Publications  | Aeronautical Charts        | Terminal Procedures        |
| <b>PLT091</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation                            | Radio                      | ADF/NDB                    |
| <b>PLT118</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                      | Flight Instruments         | Attitude Indicator         |
| Instrument Procedures   | Basic Flight Instruments   | Attitude Indicator         |
| <b>PLT125</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                 | Attitude Instrument Flying | Descent                    |
| <b>PLT141</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations                              | Marking / Signs            | Runway                     |
| <b>PLT161</b><br><a href="#">14 CFR 91</a><br>Instrument Procedures   | En Route                   | VFR on Top                 |
| <a href="#">Aeronautical Information Manual</a><br>Airspace   | Controlled                 | Class A                    |
| <b>PLT163</b><br><a href="#">14 CFR 91</a><br>Airspace  | Uncontrolled               | Class G                    |
| Instrument Procedures   | En Route                   | VFR on Top                 |
| <b>PLT166</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems      | Flight Instruments         | Altimeter                  |
| <b>PLT168</b><br><a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a><br>Aerodynamics                            | Principles of Flight       | Vertical Component of Lift |
| <b>PLT185</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                 | Attitude Instrument Flying | Airspeed Changes           |
| Instrument Procedures   | Attitude Instrument Flying | Descent                    |
| Instrument Procedures   | Attitude Instrument Flying | Fundamental Skills         |

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|---|--------------------------------|--|
| <b>PLT202</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation            | Radio                          | DME ARC                                |
| <b>PLT215</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems      | Flight Instruments             | Compass                                |
| Instrument Procedures   | Attitude Instrument Flying     | Bank                                   |
| <b>PLT220</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                       | Altitudes                              |
| <b>PLT237</b><br><a href="#">Airplane Flying Handbook, FAA-H-8083-3A</a><br>Aerodynamics            | Principles of Flight           | Horizontal Lift                        |
| <b>PLT278</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Attitude Instrument Flying     | Bank                                   |
| Instrument Procedures   | Attitude Instrument Flying     | Climb                                  |
| <b>PLT280</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Human Factors         | Aeromedical                    | Illusions in Flight                    |
| <b>PLT284</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | Winds/Temperatures Aloft Forecast (FD) |
| <b>PLT291</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                      | Aeronautical Weather Forecasts | Aviation Area Forecasts (FA)           |
| <b>PLT296</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                       | Holding                                |
| <b>PLT297</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Attitude Instrument Flying     | Unusual Attitude Recovery              |
| <b>PLT298</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                       | VFR on Top                             |
| <b>PLT300</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation            | Radio                          | VOR                                    |
| <b>PLT330</b><br><a href="#">Aeronautical Information Manual</a><br>Human Factors                   | Aeromedical                    | Physiological                          |
| <b>PLT334</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Human Factors         | Aeromedical                    | Spatial Disorientation                 |
| <b>PLT370</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Air Traffic Control            | ATC Clearance                          |
| <b>PLT379</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | Alternate Airport                      |
| <b>PLT391</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Communications                 | Reports                                |
| <b>PLT406</b><br><a href="#">14 CFR 91</a><br>Instrument Procedures                                 | Approach Procedures            | VASI                                   |
| Regulations   | 14CFR Part 91                  | Instrument/Equipment Requirements      |
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | Fuel Requirements                      |
| <b>PLT438</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | Supplemental Oxygen                    |

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|---|-----------------|--------------------------------|
| <b>PLT442</b>                                   |                 |                                |
| <a href="#">14 CFR 61</a>                       |                 |                                |
| Regulations                                     | 14CFR Part 61   | Currency                       |
| Regulations                                     | 14CFR Part 61   | Logging Instrument Flight Time |
| <b>PLT443</b>                                   |                 |                                |
| <a href="#">14 CFR 91</a>                       |                 |                                |
| Regulations                                     | 14CFR Part 91   | Safety Plot Requirements       |
| <b>PLT455</b>                                   |                 |                                |
| <a href="#">14 CFR 91</a>                       |                 |                                |
| Regulations                                     | 14CFR Part 91   | Clearance / Fight Plan         |
| <b>PLT508</b>                                   |                 |                                |
| <a href="#">14 CFR 91</a>                       |                 |                                |
| Regulations                                     | 14CFR Part 91   | VOR Check                      |
| <b>PLT509</b>                                   |                 |                                |
| <a href="#">Aeronautical Information Manual</a> |                 |                                |
| Flight Operations                               | Wake Turbulence | Drift                          |

**Flight Instructor Instrument—Helicopter—Added Rating (HIF)  
Sample Questions**

## FLIGHT INSTRUCTOR INSTRUMENT—HELICOPTER—ADDED RATING (HIF)

### 1. What force causes a helicopter to turn?

- A—Rudder pressure or force around the vertical axis.
- B—Vertical lift component.
- C—Horizontal lift component.

*Answer: C.*

*Learning Statement: Recall forces acting on aircraft—turns.*

### 2. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

### 3. Which instrument provides the most pertinent information (primary) for pitch control in straight and level flight?

- A—Attitude indicator.
- B—Airspeed indicator.
- C—Altimeter.

*Answer: C.*

*Learning Statement: Recall pitch control—collective/cyclic.*

### 4. What is the primary bank instrument once a standard rate turn is established?

- A—Attitude indicator.
- B—Turn coordinator.
- C—Heading indicator.

*Answer: B.*

*Learning Statement: Recall basic instrument flying—fundamental skills.*

### 5. Unless otherwise prescribed, what is the rule regarding altitude and course to be maintained during an IFR off airways flight over mountainous terrain?

- A—2,000 feet above the highest obstacle within a horizontal distance of 5 NM of course.
- B—1,000 feet above the highest obstacle within a horizontal distance of 4 NM of course.
- C—2,000 feet above the highest obstacle within 4 NM of course.

*Answer: C.*

*Learning Statement: Recall regulations—minimum safe/flight altitude.*

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR INSTRUMENT—HELICOPTER—ADDED RATING (HIF)

| <i>Topic</i>   | <i>Content</i>        | <i>Specific</i>            |
|--|-----------------------|----------------------------|
| <b>PLT004</b><br><a href="#">U.S. Terminal Procedures</a>                  | Instrument Procedures | Flight Planning            |
|  |                       | Departure Climb            |
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Instrument Procedures | Flight Planning            |
|  |                       | Enroute                    |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a>           | Instrument Procedures | En Route                   |
|  |                       | Altitudes                  |
| <b>PLT041</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Aircraft Systems      | Flight Instruments         |
|  |                       | Altimeter                  |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a>           | Instrument Procedures | Air Traffic Control        |
|  |                       | ATC Clearance              |
| <b>PLT083</b><br><a href="#">Aeronautical Information Manual</a>           | Instrument Procedures | Approach Procedures        |
|  |                       | COPTER                     |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                  | Regulations           | 14CFR Part 97              |
|  |                       | Copter Procedures          |
| <a href="#">U.S. Terminal Procedures</a>                                   | Regulations           | 14CFR Part 97              |
|  |                       | Copter Procedures          |
| <b>PLT102</b><br><a href="#">U.S. Terminal Procedures</a>                  | Publications          | Aeronautical Charts        |
|  |                       | Terminal Procedures        |
| <b>PLT118</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Aircraft Systems      | Flight Instruments         |
|  |                       | Turn Indicator             |
| <b>PLT141</b><br><a href="#">Aeronautical Information Manual</a>           | Airport Operations    | Marking / Signs            |
|  | Airport Operations    | Marking / Signs            |
|  |                       | Runway                     |
|  |                       | Taxiway                    |
| <b>PLT161</b><br><a href="#">Aeronautical Information Manual</a>           | Airspace              | Controlled                 |
|  |                       | Class E                    |
| <b>PLT165</b><br><a href="#">AC 00-6 Aviation Weather</a>                  | Weather               | Meteorology                |
|  |                       | Temperature                |
| <b>PLT166</b><br><a href="#">Aeronautical Information Manual</a>           | Instrument Procedures | En Route                   |
|  |                       | Altimeter Settings         |
| <b>PLT170</b><br><a href="#">Aeronautical Information Manual</a>           | Instrument Procedures | Approach Procedures        |
|  |                       | ILS / DME                  |
| <b>PLT175</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Instrument Procedures | Attitude Instrument Flying |
|  |                       | Pitch                      |
| <b>PLT185</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Instrument Procedures | Attitude Instrument Flying |
|  | Instrument Procedures | Attitude Instrument Flying |
|  | Instrument Procedures | Attitude Instrument Flying |
|  |                       | Bank                       |
|  |                       | Fundamental Skills         |
|  |                       | Pitch                      |
| <b>PLT202</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> | Navigation            | Radio                      |
|  |                       | DME ARC                    |
| <b>PLT208</b><br><a href="#">Aeronautical Information Manual</a>           | Flight Operations     | Emergency Procedures       |
|  |                       | Lost Communications        |
| <b>PLT226</b><br><a href="#">AC 00-6 Aviation Weather</a>                  | Weather               | Meteorology                |
|  |                       | Fog                        |

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|---|--------------------------------|--|
| <b>PLT274</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aerodynamics                             | Flight Characteristics         | Icing  |
| <b>PLT278</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures   | Attitude Instrument Flying     | Pitch  |
| <b>PLT301</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                    | Temperature                                  |
| <b>PLT334</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Human Factors           | Aeromedical                    | Spatial Disorientation                       |
| <b>PLT344</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                    | Precipitation                                |
| <b>PLT345</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                  | Meteorology                    | Pressure                                     |
| <b>PLT370</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures             | Air Traffic Control            | ATC Clearance                                |
| <b>PLT382</b><br><a href="#">14 CFR 97</a><br>Regulations   | 14CFR Part 97                  | Copter Procedures                            |
| <b>PLT403</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations                 | Emergency Procedures           | Clearance Deviation                          |
| <b>PLT409</b><br><a href="#">14 CFR 61</a><br>Regulations   | 14CFR Part 61                  | Logging Instrument Flight Time               |
| <b>PLT411</b><br><a href="#">14 CFR 61</a><br>Regulations<br>Regulations                              | 14CFR Part 61<br>14CFR Part 61 | Currency<br>Limitations                      |
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | Fuel Requirements                            |
| <b>PLT420</b><br><a href="#">14 CFR 91</a><br>Regulations<br><a href="#">14 CFR 97</a><br>Regulations | 14CFR Part 91<br>14CFR Part 97 | Takeoff / Landing - IFR<br>Copter Procedures |
| <b>PLT429</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | Instrument/Equipment Requirements            |
| <b>PLT430</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91                  | IFR Minimum Altitudes                        |
| <b>PLT434</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures             | Approach Procedures            | Visual / Contact                             |
| <b>PLT442</b><br><a href="#">14 CFR 61</a><br>Regulations<br>Regulations                              | 14CFR Part 61<br>14CFR Part 61 | Currency<br>Logging Instrument Flight Time   |
| <b>PLT493</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aerodynamics                             | Flight Characteristics         | Icing  |

**Ground Instructor Instrument (IGI)  
Sample Questions**



## GROUND INSTRUCTOR INSTRUMENT (IGI)

### 1. What force causes a helicopter to turn?

- A—Rudder pressure or force around the vertical axis.
- B—Vertical lift component.
- C—Horizontal lift component.

*Answer: C.*

*Learning Statement: Recall forces acting on aircraft—turns.*

### 2. What information does a Mach meter present?

- A—The ratio of aircraft true airspeed to the speed of sound.
- B—The ratio of aircraft indicated airspeed to the speed of sound.
- C—the ratio of aircraft equivalent airspeed, corrected for installation error, to the speed of sound.

*Answer: A.*

*Learning Statement: Interpret a MACH meter reading.*

### 3. If you are departing from an airport where you cannot obtain an altimeter setting, you should set your altimeter

- A—on 29.92 inches H<sub>g</sub>.
- B—on the current airport barometric pressure, if known.
- C—to the airport elevation.

*Answer: C.*

*Learning Statement: Recall altimeter—settings/setting procedures.*

### 4. How can you obtain the pressure altitude on flights below 18,000 feet?

- A—Set your altimeter to 29.92 inches H<sub>g</sub> and read the pressure altitude on the instrument face.
- B—Set your altimeter to the field elevation and read the pressure altitude from the Kollsman window.
- C—Contact an ATC facility FSS and request the current pressure altitude for the area.

*Answer: A.*

*Learning Statement: Interpret altimeter—readings/settings.*

### 5. If while in level flight, it becomes necessary to use an alternate source of static pressure vented inside the airplane, which of the following variations in instrument indications should the pilot expect?

- A—The altimeter will read lower than normal, airspeed lower than normal, and the VSI will momentarily show a descent.
- B—the altimeter will read higher than normal, airspeed greater than normal, and the VSI will momentarily show a climb.
- C—The altimeter will read lower than normal, airspeed greater than normal, and the VSI will momentarily show a climb and then a descent.

*Answer: B.*

*Learning Statement: Recall pitot-static system—components/operating principles/characteristics.*

## LIST OF REFERENCE MATERIALS SPECIFIC TO THE GROUND INSTRUCTOR INSTRUMENT (IGI)

| <i>Topic</i>  | <i>Content</i>               | <i>Specific</i>                     |
|---|------------------------------|-------------------------------------|
| <b>PLT002</b><br><a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures | En Route                     | CAS Calculations                    |
| <b>PLT004</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Departure Climb                     |
| <a href="#">U.S. Terminal Procedures</a><br>Instrument Procedures   | Flight Planning              | Departure Climb                     |
| <b>PLT012</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures                 | Flight Planning              | Enroute                             |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Instrument Procedures                  | Flight Planning              | Enroute                             |
| <b>PLT033</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | En Route                     | Altitudes                           |
| <b>PLT041</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                           |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems                                       | Flight Instruments           | Altimeter                           |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems                       | Pitot/Static                 | Altimeter                           |
| <b>PLT044</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Air Traffic Control          | ATC Clearance                       |
| <b>PLT049</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation                            | Radio                        | ILS                                 |
| <b>PLT052</b><br><a href="#">U.S. Terminal Procedures</a><br>Flight Operations                                      | Emergency Procedures         | Lost Communications                 |
| Instrument Procedures   | Flight Planning              | Departure Climb                     |
| <b>PLT053</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures                           | Flight Planning              | Flight Plan                         |
| <b>PLT058</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Publications                                     | Aeronautical Charts          | IFR En Route                        |
| <b>PLT059</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Aeronautical Weather Reports | METAR                               |
| <b>PLT061</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Aeronautical Weather Reports | PIREP                               |
| <b>PLT068</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather                                      | Charts/Maps                  | High-Level Significant Weather Prog |
| <b>PLT078</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Publications                          | Airport Facility Directory   | VOR Frequency                       |
| <b>PLT082</b><br><a href="#">14 CFR 91</a><br>Instrument Procedures   | Approach Procedures          | Minimums                            |
| <b>PLT083</b><br><a href="#">Aeronautical Information Manual</a><br>Publications                                    | Aeronautical Charts          | Terminal Procedures                 |
| <a href="#">Instrument Approach Procedure Charts</a><br>Flight Operations   | Approach                     | Descent Rate                        |
| <a href="#">U.S. Terminal Procedures</a><br>Publications  | Aeronautical Charts          | Terminal Procedures                 |

|   |                          |                         |
|---|--------------------------|-------------------------|
| <b>PLT086</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Instrument Procedures | Basic Flight Instruments | Turn-and-Slip Indicator |
| <b>PLT088</b><br><a href="#">AC 91-43 Unreliable Airspeed Indication</a><br>Aircraft Systems        | Pitot/Static             | Blockage                |
| <b>PLT090</b><br><a href="#">IFR Enroute Low Altitude Chart</a><br>Navigation                       | Radio                    | VOR                     |
| <b>PLT091</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation            | Radio                    | ADF/NDB                 |
|   | Radio                    | VOR                     |
| <b>PLT100</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations               | Emergency Procedures     | Lost Communications     |
| <b>PLT102</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | Terminal Area Operations | STAR                    |
| <a href="#">STARs - Standard Terminal Arrivals</a><br>Publications                                  | Aeronautical Charts      | Terminal Procedures     |
| <b>PLT105</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Aircraft Systems                       | Avionics                 | Radar                   |
| <b>PLT118</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Aircraft Systems      | Flight Instruments       | Attitude Indicator      |
| Aircraft Systems  | Flight Instruments       | Turn Indicator          |
| Instrument Procedures   | Basic Flight Instruments | Attitude Indicator      |
| <b>PLT141</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations              | Marking / Signs          | Displaced Threshold     |
| Airport Operations  | Marking / Signs          | Runway                  |
| Airport Operations  | Marking / Signs          | Taxiway                 |
| <b>PLT145</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations              | Lighting                 | REIL                    |
| <b>PLT147</b><br><a href="#">Aeronautical Information Manual</a><br>Airport Operations              | Lighting                 | VASI                    |
| <b>PLT161</b><br><a href="#">14 CFR 91</a><br>Regulations   | 14CFR Part 91            | Instrument Rating       |
| <a href="#">Aeronautical Information Manual</a><br>Airspace   | Controlled               | Class B                 |
| Airspace  | Controlled               | Class D                 |
| Airspace  | Controlled               | Class E                 |
| Airspace  | Special Use              | MOA                     |
| Airspace  | Uncontrolled             | Class G                 |
| <b>PLT162</b><br><a href="#">Aeronautical Information Manual</a><br>Airspace                        | Controlled               | Class E                 |
| <b>PLT163</b><br><a href="#">14 CFR 91</a><br>Airspace  | Controlled               | Class E                 |
| <b>PLT165</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                                | Meteorology              | Temperature             |
| <b>PLT166</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures           | En Route                 | Altimeter Settings      |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a><br>Aircraft Systems       | Flight Instruments       | Altimeter               |

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|---|------------------------------|--|-----------------------------|
| <b>PLT170</b>   |                              |  |                             |
| <a href="#">U.S. Terminal Procedures</a>                                  |                              |  |                             |
| Instrument Procedures   | Approach Procedures          |  | ILS                         |
| <b>PLT185</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Airspeed Changes            |
| Instrument Procedures   | Attitude Instrument Flying   |  | Fundamental Skills          |
| <b>PLT187</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Bank                        |
| <b>PLT192</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Clouds                      |
| <b>PLT196</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Weather   | Aeronautical Weather Reports |  | ATIS                        |
| <b>PLT202</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Navigation  | Radio                        |  | DME                         |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Navigation  | Radio                        |  | DME                         |
| Navigation  | Radio                        |  | DME ARC                     |
| <b>PLT208</b>   |                              |  |                             |
| <a href="#">Aeronautical Information Manual</a>                           |                              |  |                             |
| Flight Operations   | Emergency Procedures         |  | Declare an Emergency        |
| Flight Operations   | Emergency Procedures         |  | Lost Communications         |
| <b>PLT215</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Aircraft Systems  | Flight Instruments           |  | Compass                     |
| Instrument Procedures   | Attitude Instrument Flying   |  | Bank                        |
| Instrument Procedures   | Basic Flight Instruments     |  | Attitude Indicator          |
| Instrument Procedures   | Basic Flight Instruments     |  | Magnetic Compass            |
| <a href="#">Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</a> |                              |  |                             |
| Aircraft Systems  | Flight Instruments           |  | Compass                     |
| Instrument Procedures   | Basic Flight Instruments     |  | Magnetic Compass            |
| <b>PLT224</b>   |                              |  |                             |
| <a href="#">Airport/Facility Directory</a>                                |                              |  |                             |
| Instrument Procedures   | Departure                    |  | Departure Procedures Charts |
| <b>PLT226</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Fog                         |
| <b>PLT263</b>   |                              |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                                  |                              |  |                             |
| Weather   | Meteorology                  |  | Turbulence                  |
| <b>PLT275</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Navigation  | Radio                        |  | ILS                         |
| Navigation  | Radio                        |  | VOR                         |
| <b>PLT276</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Navigation  | Radio                        |  | VOR                         |
| <b>PLT278</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Instrument Procedures   | Attitude Instrument Flying   |  | Bank                        |
| Instrument Procedures   | Attitude Instrument Flying   |  | Climb                       |
| <b>PLT280</b>   |                              |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a>                 |                              |  |                             |
| Human Factors   | Aeromedical                  |  | Illusions in Flight         |
| <b>PLT281</b>   |                              |  |                             |
| <a href="#">Airport/Facility Directory</a>                                |                              |  |                             |
| Publications  | Airport Facility Directory   |  | Airport Remarks             |
| Publications  | Airport Facility Directory   |  | Weather Data Sources        |

|   |                                |  |                             |
|---|--------------------------------|--|-----------------------------|
| <b>PLT288</b>   |                                |  |                             |
| <a href="#">AC 00-45 Aviation Weather Services</a>        |                                |  |                             |
| Weather   | Aeronautical Weather Forecasts |  | TAF                         |
| <b>PLT290</b>   |                                |  |                             |
| <a href="#">AC 00-45 Aviation Weather Services</a>        |                                |  |                             |
| Weather   | Aeronautical Weather Reports   |  | AIRMETS                     |
| Weather   | Aeronautical Weather Reports   |  | SIGMETS                     |
| <b>PLT292</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Publications  | Aeronautical Charts            |  | Terminal Procedures         |
| <b>PLT293</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Instrument Procedures                                     | Departure                      |  | Departure Procedures Charts |
| <b>PLT296</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Instrument Procedures                                     | En Route                       |  | Holding                     |
| <b>PLT297</b>   |                                |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                                |  |                             |
| Instrument Procedures                                     | Attitude Instrument Flying     |  | Unusual Attitude Recovery   |
| <b>PLT300</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Navigation  | Radio                          |  | DME                         |
| <b>PLT302</b>   |                                |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                                |  |                             |
| Weather   | Meteorology                    |  | Jet Stream                  |
| <b>PLT317</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Weather   | Hazardous                      |  | Microburst                  |
| Weather   | Hazardous                      |  | Windshear                   |
| <b>PLT318</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Instrument Procedures                                     | Air Traffic Control            |  | Reporting                   |
| <b>PLT322</b>   |                                |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                                |  |                             |
| Navigation  | Radio                          |  | VOR                         |
| <b>PLT323</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Air Traffic Control Procedures                            | Arrival                        |  | NOTAMS                      |
| <b>PLT330</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Human Factors   | Aeromedical                    |  | Physiological               |
| <b>PLT334</b>   |                                |  |                             |
| <a href="#">Instrument Flying Handbook, FAA-H-8083-15</a> |                                |  |                             |
| Human Factors   | Aeromedical                    |  | Spatial Disorientation      |
| <b>PLT344</b>   |                                |  |                             |
| <a href="#">AC 00-6 Aviation Weather</a>                  |                                |  |                             |
| Weather   | Meteorology                    |  | Precipitation               |
| <b>PLT353</b>   |                                |  |                             |
| <a href="#">AC 00-45 Aviation Weather Services</a>        |                                |  |                             |
| Weather   | Charts/Maps                    |  | Radar Summary Charts        |
| <b>PLT354</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Navigation  | Radio                          |  | GPS                         |
| <b>PLT361</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Navigation  | Radio                          |  | SDF/LDA                     |
| Publications  | AIM                            |  | Navigation Aids             |
| <b>PLT370</b>   |                                |  |                             |
| <a href="#">Aeronautical Information Manual</a>           |                                |  |                             |
| Instrument Procedures                                     | Air Traffic Control            |  | ATC Clearance               |
| <b>PLT379</b>   |                                |  |                             |
| <a href="#">14 CFR 91</a>                                 |                                |  |                             |
| Regulations   | 14CFR Part 91                  |  | Alternate Airport           |

|   |                      |                                   |
|---|----------------------|-----------------------------------|
| <b>PLT391</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations     | Emergency Procedures | Lost Communications               |
| <b>PLT403</b><br><a href="#">Aeronautical Information Manual</a><br>Flight Operations     | Emergency Procedures | Clearance Deviation               |
| <b>PLT409</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61        | Logging Instrument Flight Time    |
| <b>PLT411</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61        | Limitations                       |
| <b>PLT413</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | Fuel Requirements                 |
| <b>PLT421</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | Clearance / Flight Plan           |
| <b>PLT429</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | Instrument/Equipment Requirements |
| <b>PLT442</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61        | Currency                          |
|   | 14CFR Part 61        | Logging Instrument Flight Time    |
| <b>PLT443</b><br><a href="#">14 CFR 61</a><br>Regulations                                 | 14CFR Part 61        | Limitations                       |
| <a href="#">14 CFR 91</a><br>Regulations  | 14CFR Part 91        | Safety Plot Requirements          |
| <b>PLT444</b><br><a href="#">Aeronautical Information Manual</a><br>Instrument Procedures | Air Traffic Control  | ATC Clearance                     |
| <b>PLT445</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | Preflight Action                  |
| <b>PLT455</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | Clearance / Flight Plan           |
| <b>PLT475</b><br><a href="#">AC 00-45 Aviation Weather Services</a><br>Weather            | Meteorology          | Squalls                           |
| <b>PLT492</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology          | Temperature                       |
| <b>PLT495</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology          | Thunderstorms                     |
| <b>PLT507</b><br><a href="#">Instrument Flying Handbook, FAA-H-8083-15</a><br>Navigation  | Radio                | VOR                               |
| <b>PLT508</b><br><a href="#">14 CFR 91</a><br>Regulations                                 | 14CFR Part 91        | VOR Check                         |
| <a href="#">Aeronautical Information Manual</a><br>Navigation                             | Radio                | VOR Check                         |
| <b>PLT510</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology          | Circulation                       |
| Weather   | Meteorology          | Solar Energy                      |
| <b>PLT511</b><br><a href="#">AC 00-6 Aviation Weather</a><br>Weather                      | Meteorology          | Air Masses                        |

**PLT515**

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

Weather                      Aeronautical Weather Reports                      HIWAS

**PLT516**

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**PLT518**

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Weather                      Meteorology                      Windshear

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Weather                      Hazardous                      Windshear