

INSTRUMENT RATING and INSTRUMENT INSTRUCTOR RATING KNOWLEDGE TEST GUIDE

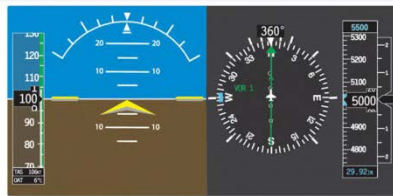


◀ Before procedure



▶ Current procedure

After procedure ▶



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U.S. Department of Transportation
Federal Aviation Administration

INTRODUCTION

FAA-G-8082-13, dated October 2015, Instrument Rating Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes all previously dated FAA-G-8082-13 versions.

| <u>Test Name</u> | <u>Test Code</u> |
|--------------------------------------------------------|------------------|
| Instrument Rating—Airplane | IRA |
| Instrument Rating—Helicopter | IRH |
| Instrument Rating—Foreign Pilot | IFP |
| Instrument Rating Canadian Conversion—Airplane | ICP |
| 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.

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/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

The following tests each contain 40 questions, and you are allowed 2 hours to complete each test.

- Instrument Rating Canadian Conversion—Airplane

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

- Instrument Flight Instructor—Airplane (Added Rating)
- Instrument Flight Instructor—Helicopter (Added Rating)

TEST REGISTRATION

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

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

APPLICANT IDENTIFICATION AND TEST AUTHORIZATION

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

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

TEST TAKING TIPS

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

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

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

USE OF TEST AIDS AND MATERIALS

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

http://www.faa.gov/training_testing/testing/media/LearningStatementReferenceGuide.pdf

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

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

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

REQUESTING YOUR TEST BE HAND-SCORED

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

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

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

AIRMAN KNOWLEDGE TEST REPORTS

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

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

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

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

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

TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

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

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

Advisory Circulars

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

Airworthiness Directives

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

Code of Federal Regulations

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


Computer Testing Supplements


The knowledge testing supplements contain the graphics, legends, and maps that are needed to successfully respond to certain knowledge test items. ODA test center personnel will provide these supplements during the airman knowledge test. You can review them prior to testing at: http://www.faa.gov/training_testing/testing/test_questions/media/FAA-CT-8080-3E.pdf. Marking in the supplement book is prohibited; however, you may request a photo copy of any figure either before or during your exam. This marked or unmarked copy must be returned to the proctor at the end of the exam.

Knowledge Test Centers

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

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

 [Computer Assisted Testing Service \(CATS\)](#)
777 Mariners Island Blvd., Suite 200
San Mateo, CA 94404
Applicant inquiry and test registration: 1-800-947-4228
From outside the U.S. (650) 259-8550

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

Knowledge Test Questions

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

Knowledge Test Statistics

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

Practical Test Standards

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

Training Handbooks

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

Classification Code

Topic, Content and Specific (TCS) codes listed in this guide are NOT a description of the Learning Statement Codes (LSC) found in the 'Learning Statement Reference Guide for Airman Knowledge Testing' document, but are a hierarchical sequence of classification codes placing a question in a unique category. FAA knowledge test question development uses the following hierarchy:

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

References Appendix

The knowledge tests for Instrument Rating exams are based on the following references.

14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors
14 CFR part 91 General Operating and Flight Rules
14 CFR part 97 Standard Instrument Procedures
49 CFR part 830 Notification and Reporting of Aircraft Accidents
AC 00-45 - Aviation Weather Services
AC 00-54 - Pilot Wind Shear Guide
AC 00-6 - Aviation Weather
AC 120-58 - Pilot Guide for Large Aircraft Ground Deicing
AC 91-43 - Unreliable Airspeed Indication
AC 91-51 - Effect of Icing on Aircraft Control and Airplane Deice and Anti-Ice Systems
AC 91-74 - Pilot Guide: Flight in Icing Conditions
Aeronautical Information Manual
Airport/Facility Directory
FAA-H-8083-15 - Instrument Flying Handbook
FAA-H-8083-2 - Risk Management Handbook
FAA-H-8083-21 - Rotorcraft Flying Handbook
FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge
FAA-H-8083-3A - Airplane Flying Handbook
FAA-H-8083-6 - Advanced Avionics Handbook
FAA-H-8261-1 - Instrument Procedures Handbook
IFR Enroute Low Altitude Chart
Instrument Approach Procedure Charts
STARs - Standard Terminal Arrivals
U.S. Terminal Procedures

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

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

INSTRUMENT RATING—AIRPLANE (IRA)

1. If you experience tunnel vision and cyanosis you may have symptoms of

- A—hypoxia.
- B—hyperventilation.
- C—carbon monoxide poisoning.

Answer: A.

Learning Statement: Recall physiological factors - cause / effects of hypoxia.

2. ATC can issue a STAR

- A—to all pilots wherever STARs are available.
- B—only if the pilot requests a STAR in the 'Remarks' section of the flight plan.
- C—when ATC deems it appropriate, unless the pilot requests 'No STAR.'

Answer: C.

Learning Statement: Recall ATC - system / services.

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> |
|----------------------------------------------------------------------------|--------------------------|-----------------------------|
| PLT002 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Instrument Procedures | En Route | CAS Calculations |
| PLT004 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR Navigation and Approaches | Charts | Descent rates |
| Instrument Procedures | Flight Planning | Departure Climb |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| Instrument Approach Procedure Charts | | |
| IFR Flight Operations | IFR | IFR approaches |
| U.S. Terminal Procedures | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| PLT008 | | |
| Instrument Approach Procedure Charts | | |
| IFR Flight Operations | IFR | IFR approaches |
| PLT012 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Flight Planning | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Navigation and Approaches | Charts | Flight planning |
| Instrument Procedures | En Route | CAS Calculations |
| Instrument Procedures | Flight Planning | Enroute |
| PLT023 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Pressure |
| PLT033 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT041 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altimeter Settings |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Altimeter |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Altimeter |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | ATC Procedures | Pilot Controller Glossary |
| Flight Operations | Approach | Side-Step Maneuver |
| IFR Flight Operations | IFR | ATC communications |
| IFR Navigation and Approaches | IFR Systems | ATC IFR approach procedures |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Communications | Terminology |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| PLT047 | | |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT049 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ILS |

PLT051[AC 00-45 - Aviation Weather Services](#)

| | | |
|---------------------|--------------------------------|-------------------------|
| Weather Information | Aeronautical Weather Forecasts | Convective Outlook (AC) |
|---------------------|--------------------------------|-------------------------|

PLT052[Aeronautical Information Manual](#)

| | | |
|---------------------|----------------|----------------------|
| AIM IFR Information | ATC Procedures | Departure procedures |
|---------------------|----------------|----------------------|

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|-----------------------|-----------|-----------------------------|
| Instrument Procedures | Departure | Departure Procedures Charts |
|-----------------------|-----------|-----------------------------|

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|-----------------------|-----------------|-----------------|
| Instrument Procedures | Flight Planning | Departure Climb |
|-----------------------|-----------------|-----------------|

[U.S. Terminal Procedures](#)

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

| | | |
|-----------------------|-----|----------------------|
| IFR Flight Operations | IFR | Departure procedures |
|-----------------------|-----|----------------------|

PLT053[Aeronautical Information Manual](#)

| | | |
|-----------------------|-----------------|-------------|
| Instrument Procedures | Flight Planning | Flight Plan |
|-----------------------|-----------------|-------------|

PLT058[14 CFR part 91 General Operating and Flight Rules](#)

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

[Aeronautical Chart User's Guide](#)

| | | |
|----------------------------------|--|----------------------|
| IFR En Route and Approach Charts | | FLIP En route charts |
|----------------------------------|--|----------------------|

[IFR Enroute Low Altitude Chart](#)

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

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

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

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|----------------------------------|--|----------------------|
| IFR En Route and Approach Charts | | FLIP En route charts |
|----------------------------------|--|----------------------|

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

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

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

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

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

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

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

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

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

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

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

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

| | | |
|---------------------|--------------------------------|-------------------------------------|
| Weather Information | Aeronautical Weather Forecasts | Wind and Temperature Aloft Forecast |
|---------------------|--------------------------------|-------------------------------------|

PLT077[U.S. Terminal Procedures](#)

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

PLT078[Airport/Facility Directory](#)

| | | |
|-------------------------------|------|-----|
| IFR Navigation and Approaches | FLIP | AFD |
|-------------------------------|------|-----|

PLT079[FAA-H-8083-15 - Instrument Flying Handbook](#)

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

PLT080[FAA-H-8083-15 - Instrument Flying Handbook](#)

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

PLT082[14 CFR part 91 General Operating and Flight Rules](#)

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

PLT083

[Aeronautical Information Manual](#)

IFR En Route and Approach Charts

IFR Navigation and Approaches Navigation Systems
Instrument Procedures Approach Procedures
Instrument Procedures Approach Procedures
Instrument Procedures Approach Procedures
Instrument Procedures Approach Procedures
Instrument Procedures Approach Procedures
Navigation Radio
Publications Aeronautical Charts

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

Publications Aeronautical Charts

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

IFR En Route and Approach Charts

Publications Aeronautical Charts

[FAA-H-8083-21A - Helicopter Flying Handbook](#)

Publications Aeronautical Charts

[FAA-H-8083-6 - Advanced Avionics Handbook](#)

IFR En Route and Approach Charts

[U.S. Terminal Procedures](#)

IFR En Route and Approach Charts

Instrument Procedures Approach Procedures
Publications Aeronautical Charts

PLT086

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

Instrument Procedures Attitude Instrument Flying

Instrument Procedures Basic Flight Instruments

PLT088

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

IFR Flight Operations Flight Instrumentation

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

IFR Flight Operations Flight Instrumentation

PLT090

[Aeronautical Information Manual](#)

Navigation Radio

[IFR Enroute Low Altitude Chart](#)

Navigation Radio

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

Navigation Radio

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

Navigation Radio

[STARs - Standard Terminal Arrivals](#)

Navigation Radio

PLT091

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

Navigation Radio

Navigation Radio

Navigation Radio

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

IFR Navigation and Approaches Navigation Systems

PLT100

[Aeronautical Information Manual](#)

IFR Flight Operations IFR

Publications Aeronautical Charts

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

Publications AIM

FLIP Approach charts
Non-precision approach aids
Course Reversal
Descent
GPS
Holding
Minimums
GPS
Terminal Procedures

Terminal Procedures

FLIP Approach charts

Terminal Procedures

Terminal Procedures

FLIP Approach charts

FLIP Approach charts

Minimums

Terminal Procedures

Fundamental Skills

Turn-and-Slip Indicator

Instrumentation

Instrumentation

VOR

VOR

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VOR

VOR

ADF / NDB

ILS

VOR

VOR

ATC communications

IFR En Route

Navigation Aids

| | | | |
|--------------------------------------------------------------------|----------------------------|--|----------------------------------|
| PLT102 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Terminal Area Operations | | STAR |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| IFR En Route and Approach Charts | | | FLIP Approach charts |
| STARs - Standard Terminal Arrivals | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT104 | | | |
| FAA-H-8083-2 - Risk Management Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT105 | | | |
| AC 00-6 - Aviation Weather | | | |
| Critical Weather and Windshear | Avoidance | | Radar |
| Critical Weather and Windshear | Detection | | Radar |
| PLT107 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Safe IFR Operations | Aircraft Systems | | Electronic flight displays (EFD) |
| PLT118 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Direct reading |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | | Attitude Indicator |
| PLT120 | | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| Weather Information | Meteorology | | Turbulence |
| PLT125 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | Collision Avoidance |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Descent |
| PLT128 | | | |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| Critical Weather and Windshear | Detection | | Icing |
| Flight Operations | Approach | | Icing Conditions |
| Flight Operations | Cruise | | Autopilot Operation |
| IFR Flight Operations | IMC | | Icing |
| Safe IFR Operations | Aircraft Systems | | Icing encounters |
| Weather Information | Hazardous | | Icing |
| PLT133 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Climb |
| PLT136 | | | |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| IFR Flight Operations | Systems | | Deicing |
| PLT141 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | Airport lights |
| IFR Flight Operations | IFR | | Airport markings and signs |
| PLT144 | | | |
| FAA-H-8083-3 - Airplane Flying Handbook | | | |
| IFR Flight Operations | IFR | | Hazards |
| PLT147 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | Airport lights |

PLT161

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

| | | |
|-----------------------|---------------|-------------------------|
| Instrument Procedures | En Route | VFR on Top |
| Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| Regulations IFR | 14CFR Part 91 | Instrument Rating |
| Regulations IFR | 14CFR Part 91 | Transponder |

[Aeronautical Information Manual](#)

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|---------------------|-----------------|----------------------|
| AIM IFR Information | Airspace | Class A |
| AIM IFR Information | Airspace | Class B |
| AIM IFR Information | Airspace | Class C |
| AIM IFR Information | Airspace | Class D |
| AIM IFR Information | Airspace | Class E |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |
| AIM IFR Information | Navigation Aids | WAAS |

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

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|-----------------|---------------|-------------------------|
| Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
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PLT163

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

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| Aeronautical Information Manual | IFR Information | Airspace | Class E |
| Instrument Procedures | En Route | VFR on Top | |

[Aeronautical Information Manual](#)

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| AIM IFR Information | Airspace | Class G |
|---------------------|----------|---------|

PLT165

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

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| Weather Information | Meteorology | Temperature |
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[FAA-H-8083-15 - Instrument Flying Handbook](#)

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| IFR Flight Operations | Flight Instrumentation | Altimeter |
|-----------------------|------------------------|-----------|

PLT166

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

| | | |
|-----------------------|----------|--------------------|
| Instrument Procedures | En Route | Altimeter Settings |
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[Aeronautical Information Manual](#)

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| IFR Flight Operations | IFR | IFR altitudes |
| Instrument Procedures | En Route | Altimeter Settings |

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

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|-----------------------|------------------------|-----------------|
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
|-----------------------|------------------------|-----------------|

PLT167

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

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| IFR Flight Operations | Flight Instrumentation | Instrumentation |
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PLT170

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

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| Instrument Procedures | Approach Procedures | Missed Approach |
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[Aeronautical Information Manual](#)

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| IFR En Route and Approach Charts | | FLIP Approach charts |
|----------------------------------|--|----------------------|

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| Instrument Procedures | Approach Procedures | Approach Category |
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| Instrument Procedures | Approach Procedures | Course Reversal |
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| Instrument Procedures | Approach Procedures | Descent |
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| Instrument Procedures | Approach Procedures | ILS |
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| Instrument Procedures | Approach Procedures | ILS / DME |
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| Instrument Procedures | Approach Procedures | Minimums |
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| Instrument Procedures | Approach Procedures | Missed Approach |
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| Instrument Procedures | Approach Procedures | Radar Approach |
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[FAA-H-8083-15 - Instrument Flying Handbook](#)

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| IFR En Route and Approach Charts | | FLIP Approach charts |
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[FAA-H-8083-3 - Airplane Flying Handbook](#)

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| Safe IFR Operations | IFR Procedures | Approaches |
|---------------------|----------------|------------|

PLT171

[Aeronautical Information Manual](#)

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

PLT172[Aeronautical Information Manual](#)

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

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

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| IFR Flight Operations | IFR | Approaches |
|-----------------------|-----|------------|

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

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

PLT174[FAA-H-8083-6 - Advanced Avionics Handbook](#)

| | | |
|---------------------|------------------|-----------|
| Safe IFR Operations | Aircraft Systems | Autopilot |
|---------------------|------------------|-----------|

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

| | | |
|-----------------------|----------------------------|------------------------|
| IFR Flight Operations | Flight Instrumentation | Instrument failures |
| IFR Flight Operations | Flight Instrumentation | Supporting instruments |
| IFR Flight Operations | IFR | Standard rate turn |
| Instrument Procedures | Attitude Instrument Flying | Airspeed Changes |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |

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

| | | |
|-----------------------|----------------------------|---------------------|
| IFR Flight Operations | Flight Instrumentation | Primary instruments |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Pitch |

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

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

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

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

PLT194[Aeronautical Information Manual](#)

| | | |
|---------------------|-----------------|------|
| AIM IFR Information | Navigation Aids | WAAS |
|---------------------|-----------------|------|

PLT196[Aeronautical Information Manual](#)

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

PLT202[FAA-H-8083-15 - Instrument Flying Handbook](#)

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

PLT203[AC 00-6 - Aviation Weather](#)

| | | |
|---------------------|-------------|------------|
| Weather Information | Meteorology | Atmosphere |
|---------------------|-------------|------------|

PLT208[Aeronautical Information Manual](#)

| | | |
|-----------------------|----------------------|----------------------|
| Flight Operations | Emergency Procedures | Declare an Emergency |
| Flight Operations | Emergency Procedures | Lost Communications |
| IFR Flight Operations | IFR | ATC communications |

PLT215[FAA-H-8083-15 - Instrument Flying Handbook](#)

Instrument Procedures Basic Flight Instruments Magnetic Compass

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

IFR Flight Operations Flight Instrumentation Instrumentation

Instrument Procedures Basic Flight Instruments Magnetic Compass

PLT220[Aeronautical Information Manual](#)

Instrument Procedures En Route Altitudes

PLT222[Aeronautical Information Manual](#)

IFR Flight Operations IFR Airport operations

PLT224[Aeronautical Information Manual](#)

IFR Flight Operations IFR ATC communications

Instrument Procedures Departure Departure Procedures Charts

Instrument Procedures Flight Planning Flight Plan

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

Weather Information Meteorology Fog

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

IFR Flight Operations IFR Standard rate turn

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

Weather Information Meteorology Turbulence

Weather Information Meteorology Windshear

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

Weather Information Meteorology Turbulence

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

Weather Information Meteorology Turbulence

PLT274[AC 00-6 - Aviation Weather](#)

IFR Flight Operations IFR Hazards

[AC 91-51 - Effect of Icing on Aircraft](#)

Weather Information Hazardous Icing

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

Critical Weather and Windshear Detection Icing

Weather Information Hazardous Icing

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

Navigation Radio ILS

Navigation Radio VOR

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

Navigation Radio VOR

PLT277[Aeronautical Information Manual](#)

AIM IFR Information Navigation Aids Marker Beacons

Navigation Radio ILS

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

IFR Flight Operations Flight Instrumentation Instrumentation

IFR Flight Operations Flight Instrumentation Primary instruments

Instrument Procedures Attitude Instrument Flying Airspeed Changes

Instrument Procedures Attitude Instrument Flying Bank

Instrument Procedures Attitude Instrument Flying Climb

[FAA-H-8083-6 - Advanced Avionics Handbook](#)

IFR Flight Operations Flight Instrumentation Instrumentation

Safe IFR Operations Aircraft Systems Electronic flight displays (EFD)

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

Aeronautical Decision Making Human Factors Aeromedical

PLT281[Aeronautical Information Manual](#)

Safe IFR Operations IFR Procedures

VOR

[Airport/Facility Directory](#)

Safe IFR Operations ATC Operations

ATC tower

PLT283[AC 00-45 - Aviation Weather Services](#)

Weather Information Charts / Maps

Constant Pressure Analysis Charts

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

Weather Information Aeronautical Weather Forecasts

Wind and Temperature Aloft Forecast

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

Weather Information Aeronautical Weather Forecasts

TAF

PLT289[AC 00-45 - Aviation Weather Services](#)

Weather Information Charts / Maps

Weather Depiction Charts

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

Weather Information Aeronautical Weather Reports

AIRMETS

Weather Information Aeronautical Weather Reports

Icing

Weather Information Aeronautical Weather Reports

SIGMETS

[Aeronautical Information Manual](#)

Weather Information Aeronautical Weather Reports

AIRMETS

PLT292[AC 00-45 - Aviation Weather Services](#)

Publications Aeronautical Charts

Terminal Procedures

[Aeronautical Information Manual](#)

Instrument Procedures Approach Procedures

Visual / Contact

Instrument Procedures En Route

Altitudes

Publications Aeronautical Charts

Terminal Procedures

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

Publications Aeronautical Charts

Terminal Procedures

[Instrument Approach Procedure Charts](#)

IFR Flight Operations IFR

IFR approaches

PLT293[Aeronautical Information Manual](#)

Instrument Procedures Departure

Departure Procedures Charts

PLT296[Aeronautical Information Manual](#)

AIM IFR Information ATC Procedures

Holding

Flight Operations Landing

Circling

Instrument Procedures Approach Procedures

Missed Approach

Instrument Procedures En Route

Holding

[Instrument Approach Procedure Charts](#)

Instrument Procedures Approach Procedures

Minimums

PLT297[FAA-H-8083-15 - Instrument Flying Handbook](#)

Instrument Procedures Attitude Instrument Flying

Unusual Attitude Recovery

Safe IFR Operations IFR Procedures

Basic flight skills

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

IFR Flight Operations Flight Instrumentation

Instrument failures

PLT298[Aeronautical Information Manual](#)

AIM IFR Information Airspace

Class A

Air Traffic Control Procedures En Route

IFR clearance

Instrument Procedures Air Traffic Control

Reporting

Instrument Procedures En Route

VFR on Top

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

Instrument Procedures En Route

VFR on Top

| | | |
|----------------------------------------------------------------------------|------------------------|------------------------|
| PLT300 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| Aeronautical Information Manual | | |
| Navigation | Radio | DME |
| Navigation | Radio | VOR |
| Navigation | Radio | VOR Check |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| PLT301 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Temperature |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Temperature |
| PLT302 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Jet Stream |
| PLT317 | | |
| Aeronautical Information Manual | | |
| Weather Information | Hazardous | Microburst |
| PLT318 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| PLT321 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | ILS |
| Instrument Procedures | Approach Procedures | Parallel Approaches |
| PLT322 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Navigation Aids | VOR |
| Navigation | Radio | VOR |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| PLT323 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Other Publications | NOTAMS |
| Air Traffic Control Procedures | Arrival | NOTAMS |
| Instrument Procedures | Flight Planning | NOTAMS |
| PLT330 | | |
| Aeronautical Information Manual | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT332 | | |
| Aeronautical Information Manual | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT333 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT334 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| Human Factors | Aeromedical | Spatial Disorientation |
| PLT337 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT344 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Precipitation |
| PLT345 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Pressure |

PLT354[Aeronautical Information Manual](#)

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|----------------------------------------------------------------|---------------------|------------------------|
| IFR Navigation and Approaches | Navigation Systems | GPS |
| Instrument Procedures | Approach Procedures | GPS |
| Navigation | Radio | GPS |
| Publications | AIM | Navigation Aids |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | GPS |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR Flight Operations | IFR | IFR off airway routing |
| Navigation | Radio | GPS |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| Flight Operations | Approach | GPS |

PLT357[Aeronautical Information Manual](#)

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| Navigation | Radio | SDF / LDA |
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PLT358[FAA-H-8083-15 - Instrument Flying Handbook](#)

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| IFR Flight Operations | IFR | IFR approaches |
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PLT361[Aeronautical Information Manual](#)

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| IFR Navigation and Approaches | Navigation Systems | Non-precision approach aids |
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PLT370[14 CFR part 91 General Operating and Flight Rules](#)

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| Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
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[Aeronautical Information Manual](#)

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|-----------------------|---------------------|------------------------|
| AIM IFR Information | ATC Procedures | Departure restrictions |
| IFR Flight Operations | IFR | ATC communications |
| IFR Flight Operations | IFR | IFR altitudes |
| Instrument Procedures | Air Traffic Control | ATC Clearance |

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

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| Instrument Procedures | Air Traffic Control | ATC Clearance |
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PLT379[14 CFR part 91 General Operating and Flight Rules](#)

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| Regulations IFR | 14CFR Part 91 | Alternate Airport |
|-----------------|---------------|-------------------|

PLT382[14 CFR part 91 General Operating and Flight Rules](#)

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| Instrument Procedures | Approach Procedures | Minimums |
| Regulations IFR | 14CFR Part 91 | Takeoff / Landing - IFR |

PLT391[14 CFR part 91 General Operating and Flight Rules](#)

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|-----------------|---------------|------------------------|
| Regulations IFR | 14CFR Part 91 | Loss of Communications |
|-----------------|---------------|------------------------|

[Aeronautical Information Manual](#)

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|-----------------------|----------------------|---------------------|
| Flight Operations | Emergency Procedures | Lost Communications |
| IFR Flight Operations | IFR | ATC communications |

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

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| Instrument Procedures | Communications | Reports |
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PLT403[Aeronautical Information Manual](#)

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| IFR Flight Operations | IFR | ATC communications |
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PLT406[14 CFR part 91 General Operating and Flight Rules](#)

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| Regulations IFR | 14CFR Part 91 | Instrument/Equipment Requirements |
|-----------------|---------------|-----------------------------------|

PLT409[14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors](#)

| | | |
|-----------------|---------------|--------------------------------|
| Regulations IFR | 14CFR Part 61 | Logging Instrument Flight Time |
|-----------------|---------------|--------------------------------|

PLT413[14 CFR part 91 General Operating and Flight Rules](#)

| | | |
|-----------------|---------------|-------------------|
| Regulations IFR | 14CFR Part 91 | Fuel Requirements |
|-----------------|---------------|-------------------|

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| PLT421 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| Regulations IFR | 14CFR Part 91 | Course to be Flown |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| PLT429 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Instrument/Equipment Requirements |
| Regulations IFR | 14CFR Part 91 | Transponder |
| PLT438 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Supplemental Oxygen |
| PLT442 | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| Regulations IFR | 14CFR Part 61 | Currency |
| Regulations IFR | 14CFR Part 61 | Logging Instrument Flight Time |
| PLT443 | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| Regulations IFR | 14CFR Part 61 | Limitations |
| PLT444 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Preflight Action |
| Aeronautical Information Manual | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Air Traffic Control | Collision Avoidance |
| Safe IFR Operations | IFR Procedures | Pilot procedures |
| PLT445 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Preflight Action |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Heading Indicator |
| PLT448 | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| Regulations IFR | 14CFR Part 61 | Limitations |
| PLT451 | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| Regulations IFR | 14CFR Part 61 | Limitations |
| PLT454 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Altimeter System Test |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| PLT455 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| Aeronautical Information Manual | | |
| Publications | AIM | FSS |
| PLT459 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | Approach Procedures | Minimums |
| PLT475 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Squalls |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Thunderstorms |
| PLT484 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Safe IFR Operations | IFR Procedures | IFR navigation |
| PLT492 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Temperature |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Temperature |

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|----------------------------------------------------------------------------|--------------------------------|--|------------------------------|
| PLT493 | | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Icing |
| PLT495 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Thunderstorms |
| Aeronautical Information Manual | | | |
| Weather Information | Meteorology | | Thunderstorms |
| PLT497 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | Systems | | Avionics |
| PLT501 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Aeronautical Weather Reports | | PIREP |
| PLT507 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Navigation | Radio | | VOR Check |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | VOR |
| PLT508 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Altimeter System Test |
| Regulations IFR | 14CFR Part 91 | | VOR Check |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | VOR Check |
| PLT509 | | | |
| Aeronautical Information Manual | | | |
| Flight Operations | Wake Turbulence | | Drift |
| Flight Operations | Wake Turbulence | | Takeoff |
| PLT510 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Solar Energy |
| PLT511 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Air Masses |
| Weather Information | Meteorology | | Fronts |
| Weather Information | Meteorology | | Stability |
| PLT512 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Moisture |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Moisture |
| PLT513 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Forecasts | | Aviation Area Forecasts (FA) |
| PLT516 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Wind |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Wind |
| PLT518 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Meteorology | | Windshear |
| AC 00-54 - Pilot Wind Shear Guide | | | |
| Weather Information | Meteorology | | Windshear |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Windshear |
| Aeronautical Information Manual | | | |
| Weather Information | Hazardous | | Microburst |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Weather Information | Meteorology | | Windshear |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Thunderstorms |

**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_g.
- 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_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.

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> |
|----------------------------------------------------------------------------|------------------------------|----------------------|
| PLT004 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR Navigation and Approaches | Charts | Descent rates |
| U.S. Terminal Procedures | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| PLT012 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Flight Planning | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Instrument Procedures | En Route | CAS Calculations |
| PLT023 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Pressure |
| PLT033 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT041 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Altimeter |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Altimeter |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Communications | Terminology |
| PLT049 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ILS |
| PLT052 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| U.S. Terminal Procedures | | |
| Flight Operations | Emergency Procedures | Lost Communications |
| PLT058 | | |
| Aeronautical Chart User's Guide | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| IFR Enroute Low Altitude Chart | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | DME |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT059 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | METAR |
| PLT061 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | PIREP |

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

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

PLT078[Airport/Facility Directory](#)

| | | |
|-------------------------------|------|-----|
| IFR Navigation and Approaches | FLIP | AFD |
|-------------------------------|------|-----|

PLT080[FAA-H-8083-15 - Instrument Flying Handbook](#)

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

PLT083[14 CFR part 97 Standard Instrument Procedures](#)

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

[Aeronautical Information Manual](#)

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

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

| | | |
|-----------------|---------------------|---------------------|
| Publications | Aeronautical Charts | Terminal Procedures |
| Regulations IFR | 14CFR Part 97 | Copter Procedures |

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|----------------------------------|--|----------------------|
| IFR En Route and Approach Charts | | FLIP Approach charts |
|----------------------------------|--|----------------------|

[U.S. Terminal Procedures](#)

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

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

| | | |
|-----------------------|--------------------------|-------------------------|
| 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 |
|------------|-------|-----|

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

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

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

| | | |
|------------|-------|-----------|
| Navigation | Radio | ADF / NDB |
| Navigation | Radio | ILS |
| Navigation | Radio | VOR |

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

| | | |
|-------------------------------|--------------------|-----|
| IFR Navigation and Approaches | Navigation Systems | VOR |
|-------------------------------|--------------------|-----|

PLT100[Aeronautical Information Manual](#)

| | | |
|-----------------------|-----|--------------------|
| IFR Flight Operations | IFR | ATC communications |
|-----------------------|-----|--------------------|

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|----------------------------------|-----|----------------------|
| IFR En Route and Approach Charts | | FLIP En route charts |
| Publications | AIM | Navigation Aids |

PLT102[Aeronautical Information Manual](#)

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

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|----------------------------------|--|----------------------|
| IFR En Route and Approach Charts | | FLIP Approach charts |
|----------------------------------|--|----------------------|

[U.S. Terminal Procedures](#)

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

PLT107[FAA-H-8083-15 - Instrument Flying Handbook](#)

| | | |
|---------------------|------------------|----------------------------------|
| Safe IFR Operations | Aircraft Systems | Electronic flight displays (EFD) |
|---------------------|------------------|----------------------------------|

| | | |
|----------------------------------------------------------------------------|----------------------------|----------------------------|
| PLT118 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
| Instrument Procedures | Basic Flight Instruments | Gyroscopic Systems |
| PLT141 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| IFR Flight Operations | IFR | Airport markings and signs |
| PLT147 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| Airport/Facility Directory | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT161 | | |
| AIM | | |
| AIM IFR Information | Airspace | Class B |
| AIM IFR Information | Airspace | Class C |
| AIM IFR Information | Airspace | Class D |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |
| PLT163 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| AIM IFR Information | Airspace | Class E |
| Instrument Procedures | En Route | VFR on Top |
| PLT164 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | IFR | Standard rate turn |
| PLT165 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Temperature |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Altimeter |
| PLT166 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | Altimeter Settings |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| IFR Flight Operations | Flight Instrumentation | Preflight |
| PLT167 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT171 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Air Traffic Control | Reporting |
| PLT173 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Air Masses |
| PLT175 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| PLT185 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrument failures |
| IFR Flight Operations | IFR | Standard rate turn |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| Safe IFR Operations | IFR Procedures | Basic flight skills |
| PLT186 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Pitch |

| | | | |
|----------------------------------------------------------------------------|--------------------------------|--|-------------------------------------|
| PLT187 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Safe IFR Operations | Aircraft Systems | | Turn indicators |
| PLT192 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Clouds |
| PLT196 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Aeronautical Weather Reports | | ATIS |
| PLT202 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | DME |
| Navigation | Radio | | DME ARC |
| PLT208 | | | |
| Aeronautical Information Manual | | | |
| Flight Operations | Emergency Procedures | | Declare an Emergency |
| Flight Operations | Emergency Procedures | | Lost Communications |
| IFR Flight Operations | IFR | | ATC communications |
| PLT215 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Basic Flight Instruments | | Magnetic Compass |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT224 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Departure | | Departure Procedures Charts |
| Instrument Procedures | Flight Planning | | Flight Plan |
| PLT226 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Fog |
| PLT274 | | | |
| AC 00-6 - Aviation Weather | | | |
| IFR Flight Operations | IFR | | Hazards |
| PLT278 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Pitch |
| PLT280 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT281 | | | |
| Aeronautical Information Manual | | | |
| Safe IFR Operations | IFR Procedures | | VOR |
| Airport/Facility Directory | | | |
| IFR Navigation and Approaches | FLIP | | AFD |
| PLT284 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Forecasts | | Wind and Temperature Aloft Forecast |
| PLT288 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Forecasts | | TAF |
| PLT290 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Reports | | AIRMETS |
| Weather Information | Aeronautical Weather Reports | | Icing |
| Weather Information | Aeronautical Weather Reports | | SIGMETS |
| PLT292 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Altitudes |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Navigation and Approaches | Charts | | Helicopter procedures |

| | | |
|----------------------------------------------------------------------------------|---------------------|-----------------------------|
| PLT296 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | ATC Procedures | Holding |
| Instrument Procedures | Approach Procedures | Missed Approach |
| Instrument Procedures | En Route | Holding |
| PLT298 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | VFR on Top |
| PLT300 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | DME |
| Navigation | Radio | VOR |
| Navigation | Radio | VOR Check |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| PLT301 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Temperature |
| PLT317 | | |
| Aeronautical Information Manual | | |
| Weather Information | Hazardous | Microburst |
| PLT318 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| PLT322 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | VOR |
| PLT323 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Other Publications | NTAP |
| Instrument Procedures | Flight Planning | NOTAMS |
| PLT330 | | |
| Aeronautical Information Manual | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT333 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT334 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| Human Factors | Aeromedical | Spatial Disorientation |
| PLT344 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Precipitation |
| PLT345 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Pressure |
| PLT354 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR Flight Operations | IFR | IFR off airway routing |
| IFR Navigation and Approaches | IFR Systems | GNSS |
| IFR Navigation and Approaches | Navigation Systems | GPS |
| PLT366 | | |
| 49 CFR part 830 Notification and Reporting of Aircraft Accidents | | |
| Regulations IFR | NTSB Part 830 | Accident/Incident Reporting |
| PLT370 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| PLT382 | | |
| 14 CFR part 97 Standard Instrument Procedures | | |
| Regulations IFR | 14CFR Part 91 | Required IFR visibility |
| Regulations IFR | 14CFR Part 97 | Copter Procedures |

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|--------------------------------------------------------------------------------------------------|----------------------|--|-----------------------------------|
| PLT391 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Instrument Procedures | Communications | | Failure |
| Aeronautical Information Manual | | | |
| Flight Operations | Emergency Procedures | | Lost Communications |
| PLT403 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT405 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Transponder |
| PLT409 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Logging Instrument Flight Time |
| PLT411 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| Regulations IFR | 14CFR Part 61 | | Limitations |
| PLT413 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Fuel Requirements |
| PLT420 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Takeoff / Landing - IFR |
| PLT421 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Clearance / Flight Plan |
| Aeronautical Information Manual | | | |
| Regulations IFR | 14CFR Part 91 | | VOR Check |
| PLT429 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Instrument/Equipment Requirements |
| PLT430 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | IFR Minimum Altitudes |
| PLT434 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Approach Procedures | | Visual / Contact |
| PLT442 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| PLT443 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Safety Plot Requirements |
| PLT444 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | Collision Avoidance |
| PLT455 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Clearance / Flight Plan |
| Aeronautical Information Manual | | | |
| Publications | AIM | | FSS |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR En Route and Approach Charts | | | FLIP Approach charts |
| PLT475 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Squalls |
| PLT484 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Safe IFR Operations | IFR Procedures | | IFR navigation |
| PLT493 | | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Icing |

PLT495[AC 00-6 - Aviation Weather](#)

Weather Information Meteorology Thunderstorms

[Aeronautical Information Manual](#)

Weather Information Meteorology Thunderstorms

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

Weather Information Meteorology Thunderstorms

PLT508[Aeronautical Information Manual](#)

Navigation Radio VOR Check

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

Weather Information Meteorology Fronts

PLT512[AC 00-6 - Aviation Weather](#)

Weather Information Meteorology Moisture

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

Weather Information Meteorology Moisture

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

Weather Information Aeronautical Weather Reports HIWAS

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

Weather Information Meteorology Wind

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

Weather Information Meteorology Wind

PLT518[AC 00-45 - Aviation Weather Services](#)

Weather Information Meteorology Windshear

[Aeronautical Information Manual](#)

Weather Information Hazardous Microburst

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

Weather Information Meteorology Thunderstorms

**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_g.
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> |
|----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| PLT002 FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Instrument Procedures | En Route | CAS Calculations |
| PLT004 Aeronautical Information Manual Instrument Procedures | Flight Planning | Departure Climb |
| FAA-H-8083-16 - Instrument Procedures Handbook Instrument Procedures | Flight Planning | Departure Climb |
| U.S. Terminal Procedures Instrument Procedures | Flight Planning | Departure Climb |
| PLT012 FAA-H-8083-15 - Instrument Flying Handbook Instrument Procedures | Flight Planning | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge Instrument Procedures | Flight Planning | Enroute |
| PLT023 AC 00-6 - Aviation Weather Weather Information | Meteorology | Pressure |
| PLT033 Aeronautical Information Manual Instrument Procedures | En Route | Altitudes |
| PLT041 FAA-H-8083-15 - Instrument Flying Handbook IFR Flight Operations | Flight Instrumentation | Altimeter |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 Aeronautical Information Manual Instrument Procedures | Air Traffic Control | ATC Clearance |
| PLT052 Aeronautical Information Manual AIM IFR Information | ATC Procedures | Departure procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook Instrument Procedures | Departure | Departure Procedures Charts |
| U.S. Terminal Procedures Flight Operations | Emergency Procedures | Lost Communications |
| PLT053 Aeronautical Information Manual Instrument Procedures | Flight Planning | Flight Plan |
| PLT058 14 CFR part 91 General Operating and Flight Rules Publications | Aeronautical Charts | IFR En Route |
| Aeronautical Chart User's Guide IFR En Route and Approach Charts | | FLIP En route charts |
| IFR Enroute Low Altitude Chart Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-15 - Instrument Flying Handbook Publications | Aeronautical Charts | IFR En Route |
| PLT059 AC 00-45 - Aviation Weather Services Weather Information | Aeronautical Weather Reports | METAR |
| PLT078 Airport/Facility Directory IFR Navigation and Approaches | FLIP | AFD |
| PLT079 FAA-H-8083-15 - Instrument Flying Handbook Instrument Procedures | En Route | Altitudes |

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|-------------------------------------------------------------------|-------------------------------------------------|----------------------------|
| PLT080 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT083 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | Holding |
| Instrument Procedures | Approach Procedures | Minimums |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-21A - Helicopter Flying Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| U.S. Terminal Procedures | | |
| IFR En Route and Approach Charts | | FLIP Approach charts |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT090 | | |
| IFR Enroute Low Altitude Chart | | |
| Navigation | Radio | VOR |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Navigation | Radio | VOR |
| STARs - Standard Terminal Arrivals | | |
| Navigation | Radio | VOR |
| PLT091 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ADF / NDB |
| PLT100 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | Aeronautical Information Manual | Navigation Aids |
| PLT102 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Terminal Area Operations | STAR |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT105 | | |
| AC 00-6 - Aviation Weather | | |
| Critical Weather and Windshear | Avoidance | Radar |
| PLT118 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
| PLT141 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| IFR Flight Operations | IFR | Airport markings and signs |
| PLT145 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT147 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT161 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Instrument Rating |
| Regulations IFR | 14CFR Part 91 | Transponder |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class D |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |

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|----------------------------------------------------------------------------|------------------------------|--|-----------------------------|
| PLT162 | | | |
| Aeronautical Information Manual | | | |
| AIM IFR Information | Airspace | | Class E |
| PLT163 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Instrument Procedures | En Route | | VFR on Top |
| PLT165 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Altimeter |
| PLT166 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Instrument Procedures | En Route | | Altimeter Settings |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Altimeter Settings |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT172 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Approach Procedures | | Radar Approach |
| Instrument Procedures | Approach Procedures | | Visual / Contact |
| PLT185 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Airspeed Changes |
| PLT186 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Pitch |
| PLT187 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Bank |
| PLT196 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Aeronautical Weather Reports | | ATIS |
| PLT202 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | DME ARC |
| PLT208 | | | |
| Aeronautical Information Manual | | | |
| Flight Operations | Emergency Procedures | | Declare an Emergency |
| Flight Operations | Emergency Procedures | | Lost Communications |
| IFR Flight Operations | IFR | | ATC communications |
| PLT215 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Bank |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT220 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Altitudes |
| PLT224 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| Instrument Procedures | Departure | | Departure Procedures Charts |
| PLT248 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | IFR | | Standard rate turn |
| PLT274 | | | |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| Critical Weather and Windshear | Detection | | Icing |
| PLT277 | | | |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | ILS |

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|-------------------------------------------------------------------|--------------------------------|---------------------|
| PLT278 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Airspeed Changes |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| PLT280 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT281 | | |
| Aeronautical Information Manual | | |
| Safe IFR Operations | IFR Procedures | VOR |
| PLT288 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Forecasts | TAF |
| PLT290 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | Icing |
| Weather Information | Aeronautical Weather Reports | SIGMETS |
| PLT292 | | |
| AC 00-45 - Aviation Weather Services | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | Visual / Contact |
| PLT296 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Landing | Circling |
| Instrument Procedures | Approach Procedures | Holding |
| Instrument Procedures | En Route | Holding |
| PLT298 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class A |
| Instrument Procedures | Air Traffic Control | Reporting |
| PLT300 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| Aeronautical Information Manual | | |
| Navigation | Radio | VOR Check |
| PLT317 | | |
| Aeronautical Information Manual | | |
| Weather Information | Hazardous | Microburst |
| PLT318 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| PLT321 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | ILS |
| Instrument Procedures | Approach Procedures | Parallel Approaches |
| PLT322 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| PLT323 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Other Publications | NOTAMS |
| Air Traffic Control Procedures | Arrival | NOTAMS |
| PLT334 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT345 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Pressure |
| PLT354 | | |
| Aeronautical Information Manual | | |
| IFR Navigation and Approaches | Navigation Systems | GPS |

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|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|
| PLT363 FAA-H-8083-15 - Instrument Flying Handbook Navigation | Radio | VOR Check |
| PLT366 49 CFR part 830 Notification and Reporting of Aircraft Accidents Regulations IFR | NTSB Part 830 | Accident/Incident Reporting |
| PLT370 Aeronautical Information Manual AIM IFR Information | ATC Procedures | Departure restrictions |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Radar Operations | Approach Vectors |
| PLT379 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Alternate Airport |
| PLT382 14 CFR part 91 General Operating and Flight Rules Instrument Procedures | Approach Procedures | Minimums |
| PLT403 Aeronautical Information Manual IFR Flight Operations | IFR | ATC communications |
| PLT405 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Transponder |
| PLT413 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Fuel Requirements |
| PLT421 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| PLT429 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Instrument/Equipment Requirements |
| PLT430 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | IFR Minimum Altitudes |
| PLT438 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Supplemental Oxygen |
| PLT442 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors Regulations IFR | 14CFR Part 61 | Currency |
| PLT444 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Preflight Action |
| PLT445 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Preflight Action |
| PLT451 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors Regulations IFR | 14CFR Part 61 | Limitations |
| PLT454 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Altimeter System Test |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| PLT455 14 CFR part 91 General Operating and Flight Rules Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| Aeronautical Information Manual Publications | Aeronautical Information Manual | FSS |
| PLT492 AC 00-6 - Aviation Weather Weather Information | Meteorology | Temperature |
| PLT508 Aeronautical Information Manual Navigation | Radio | VOR Check |
| PLT509 Aeronautical Information Manual | | |

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|----------------------------------------------------------------------------|----------------|-----------------|
| Safe IFR Operations | ATC Procedures | Wake turbulence |
| PLT510 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Wind |
| PLT511 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Air Masses |
| PLT512 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Moisture |
| PLT516 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Wind |
| PLT518 | | |
| Aeronautical Information Manual | | |
| Weather Information | Hazardous | Microburst |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Weather Information | Meteorology | Windshear |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Thunderstorms |

**Instrument Rating Canadian Conversion—Airplane (ICP)
Sample Questions**

INSTRUMENT RATING Canadian Conversion—AIRPLANE (ICP)

1. **Your onboard GPS-based FMS/RNAV unit is IFR certified under TSO-C129() or TSO-C196(). Your destination is below minimums for the GPS RNAV approach and you proceed to your filed alternate. You know that**

A—GPS units certified under TSO-C129() or TSO-C196() are not authorized for alternate approach requirements; subsequently, you must use an approach procedure based on ground based NAVAIDS.

B—once diverted to the alternate airport, you may fly a GPS-based approach as long as there is an operational ground-based NAVAID and appropriate airborne receiver for use as a backup.

C—if your aircraft is equipped with a second TSO-C129() certified GPS as a backup in place of a ground-based NAVAID receiver, you may complete the approach even if the IAP is based on ground-based NAVAIDS.

Answer: B.

Learning Statement: Recall radio - GPS / RNAV / RAIM

2. **A pilot is making an ILS approach and is past the OM to a runway which has a VASI. What action should the pilot take if an electronic glide slope malfunction occurs and the pilot has the VASI in sight?**

A—The pilot should inform ATC of the malfunction and then descend immediately to the localizer DH and make a localizer approach.

B—The pilot may continue the approach and use the VASI glide slope in place of the electronic glide slope.

C—The pilot must request an LOC approach, and may descend below the VASI at the pilot's discretion.

Answer: B.

Learning Statement: Recall regulations - equipment failure

3. **What are the requirements for a contact approach to an airport that has an approved IAP, if the pilot is on an instrument flight plan and clear of clouds?**

A—The controller must determine that the pilot can see the airport at the altitude flown and can remain clear of clouds.

B—The pilot must agree to the approach when given by ATC and the controller must have determined that the visibility was at least 1 mile and be reasonably sure the pilot can remain clear of clouds.

C—The pilot must request the approach, have at least 1 mile visibility, and be reasonably sure of remaining clear of clouds.

Answer: C.

Learning Statement: Recall information on an Instrument Approach Procedures (IAP)

4. **A Precision Runway Monitoring (PRM) approach may require**

A—monitoring of two communication frequencies simultaneously.

B—special training and monitoring of two ILS receivers simultaneously.

C—tracking performance parameters within the "decision region" of: 1/3 dot localizer and 1/2 dot glideslope displacement.

Answer: A.

Learning Statement: Recall information on an Instrument Approach Procedures (IAP)

5. Under which condition does ATC issue a STAR?

A—To all pilots wherever STARs are available.

B—Only if the pilot requests a STAR in the `Remarks` section of the flight plan.

C—When ATC deems it appropriate, unless the pilot requests `No STAR.`

Answer: C.

Learning Statement: Recall ATC - system / services

LIST OF REFERENCE MATERIALS SPECIFIC TO THE INSTRUMENT RATING CANADIAN CONVERSION—AIRPLANE (ICP)

| <i>Topic</i> | <i>Content</i> | <i>Specific</i> |
|------------------------------------------------------------------------------------|----------------------------------|-----------------------------|
| PLT004 U.S. Terminal Procedures | Instrument Procedures | Flight Planning |
| | | Departure Climb |
| PLT012 FAA-H-8083-15 - Instrument Flying Handbook | Instrument Procedures | Flight Planning |
| | | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | Instrument Procedures | Flight Planning |
| | | Enroute |
| PLT033 Aeronautical Information Manual | Instrument Procedures | En Route |
| | | Altitudes |
| PLT044 Aeronautical Information Manual | Instrument Procedures | Air Traffic Control |
| | | ATC Clearance |
| PLT052 Aeronautical Information Manual | AIM IFR Information | ATC Procedures |
| | | Departure procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | Instrument Procedures | Departure |
| | | Departure Procedures Charts |
| U.S. Terminal Procedures | Flight Operations | Emergency Procedures |
| | | Lost Communications |
| PLT053 Aeronautical Information Manual | Instrument Procedures | Flight Planning |
| | | Flight Plan |
| PLT058 14 CFR part 91 General Operating and Flight Rules | Publications | Aeronautical Charts |
| | | IFR En Route |
| IFR Enroute Low Altitude Chart | Publications | Aeronautical Charts |
| | | IFR En Route |
| FAA-H-8083-15 - Instrument Flying Handbook | Publications | Aeronautical Charts |
| | | IFR En Route |
| PLT078 Airport/Facility Directory | IFR Navigation and Approaches | FLIP |
| | | AFD |
| PLT079 FAA-H-8083-15 - Instrument Flying Handbook | Instrument Procedures | En Route |
| | | Altitudes |
| PLT080 FAA-H-8083-15 - Instrument Flying Handbook | Publications | Aeronautical Charts |
| | | Terminal Procedures |
| PLT083 Aeronautical Information Manual | Instrument Procedures | Approach Procedures |
| | | Holding |
| Instrument Procedures | Approach Procedures | Minimums |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | Publications | Aeronautical Charts |
| | | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | Publications | Aeronautical Charts |
| | | Terminal Procedures |
| FAA-H-8083-21A - Helicopter Flying Handbook | Publications | Aeronautical Charts |
| | | Terminal Procedures |
| U.S. Terminal Procedures | IFR En Route and Approach Charts | FLIP |
| | | Approach charts |
| Publications | Aeronautical Charts | Terminal Procedures |

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|-------------------------------------------------------------------|--------------------------|----------------------------|
| PLT090 | | |
| IFR Enroute Low Altitude Chart | | |
| Navigation | Radio | VOR |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Navigation | Radio | VOR |
| STARs - Standard Terminal Arrivals | | |
| Navigation | Radio | VOR |
| PLT100 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | AIM | Navigation Aids |
| PLT102 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Terminal Area Operations | STAR |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT105 | | |
| AC 00-6 - Aviation Weather | | |
| Critical Weather and Windshear | Avoidance | Radar |
| PLT141 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| IFR Flight Operations | IFR | Airport markings and signs |
| PLT145 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT147 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT161 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Instrument Rating |
| Regulations IFR | 14CFR Part 91 | Transponder |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |
| PLT162 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class E |
| PLT163 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | VFR on Top |
| PLT166 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | Altimeter Settings |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altimeter Settings |
| PLT170 | | |
| Aeronautical Information Manual | | |
| IFR En Route and Approach Charts | | FLIP Approach charts |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR En Route and Approach Charts | | FLIP Approach charts |
| PLT172 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | Radar Approach |
| Instrument Procedures | Approach Procedures | Visual / Contact |
| PLT202 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | DME ARC |

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|-------------------------------------------------------------------|----------------------|-----------------------------|
| PLT208 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Emergency Procedures | Declare an Emergency |
| Flight Operations | Emergency Procedures | Lost Communications |
| IFR Flight Operations | IFR | ATC communications |
| PLT220 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| PLT224 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Departure | Departure Procedures Charts |
| PLT277 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | ILS |
| PLT281 | | |
| Aeronautical Information Manual | | |
| Safe IFR Operations | IFR Procedures | VOR |
| PLT292 | | |
| AC 00-45 - Aviation Weather Services | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | Visual / Contact |
| PLT296 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Landing | Circling |
| Instrument Procedures | Approach Procedures | Holding |
| Instrument Procedures | En Route | Holding |
| PLT298 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class A |
| Instrument Procedures | Air Traffic Control | Reporting |
| PLT300 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | VOR Check |
| Aeronautical Information Manual | | |
| Navigation | Radio | VOR Check |
| PLT318 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| PLT321 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | ILS |
| Instrument Procedures | Approach Procedures | Parallel Approaches |
| PLT322 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |
| PLT323 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Other Publications | NOTAMS |
| PLT354 | | |
| Aeronautical Information Manual | | |
| IFR Navigation and Approaches | Navigation Systems | GPS |
| PLT370 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | ATC Procedures | Departure restrictions |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Radar Operations | Approach Vectors |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| PLT379 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Alternate Airport |

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|---------------|--------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|
| PLT382 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Instrument Procedures | Approach Procedures | Minimums |
| PLT403 | Aeronautical Information Manual | | |
| | IFR Flight Operations | IFR | ATC communications |
| PLT405 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Transponder |
| PLT413 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Fuel Requirements |
| PLT421 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| PLT429 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Instrument/Equipment Requirements |
| PLT430 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | IFR Minimum Altitudes |
| PLT438 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Supplemental Oxygen |
| PLT442 | 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| | Regulations IFR | 14CFR Part 61 | Currency |
| PLT444 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Preflight Action |
| PLT445 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Preflight Action |
| PLT448 | 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| | Regulations IFR | 14CFR Part 61 | Limitations |
| PLT451 | 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| | Regulations IFR | 14CFR Part 61 | Limitations |
| PLT454 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Altimeter System Test |
| | Regulations IFR | 14CFR Part 91 | VOR Check |
| PLT455 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| PLT508 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | VOR Check |
| | Aeronautical Information Manual | | |
| | Navigation | Radio | VOR Check |

Flight Instructor Instrument—Airplane (FI)
Sample Questions

FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE (FII)

1. If you experience tunnel vision and cyanosis you may have symptoms of

- A—hypoxia.
- B—hyperventilation.
- C—carbon monoxide poisoning.

Answer: A.

Learning Statement: Recall physiological factors - cause / effects of hypoxia.

2. ATC can issue a STAR

- A—to all pilots wherever STARs are available.
- B—only if the pilot requests a STAR in the 'Remarks' section of the flight plan.
- C—when ATC deems it appropriate, unless the pilot requests 'No STAR.'

Answer: C.

Learning Statement: Recall ATC - system / services.

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. 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> |
|----------------------------------------------------------------------------|------------------------------|-------------------------------------|
| PLT004 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| Instrument Approach Procedure Charts | | |
| IFR Flight Operations | IFR | IFR approaches |
| PLT012 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Flight Planning | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Navigation and Approaches | Charts | Flight planning |
| Instrument Procedures | Flight Planning | Enroute |
| PLT033 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT041 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Altimeter |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Approach | Side-Step Maneuver |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Communications | Terminology |
| PLT047 | | |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT049 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ILS |
| PLT052 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Departure | Departure Procedures Charts |
| Instrument Procedures | Flight Planning | Departure Climb |
| U.S. Terminal Procedures | | |
| Flight Operations | Emergency Procedures | Lost Communications |
| PLT058 | | |
| IFR Enroute Low Altitude Chart | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT059 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | METAR |
| PLT061 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | PIREP |
| PLT068 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | High-Level Significant Weather Prog |

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|--------------------------------------------------------------------|-------------------------------------------------|--|-----------------------------|
| PLT078 | | | |
| Aeronautical Information Manual | | | |
| IFR Navigation and Approaches | FLIP | | AFD |
| PLT080 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT082 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Instrument Procedures | Approach Procedures | | Minimums |
| PLT083 | | | |
| Aeronautical Information Manual | | | |
| IFR Navigation and Approaches | Navigation Systems | | Non-precision approach aids |
| Instrument Procedures | Approach Procedures | | Timed Approach |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| U.S. Terminal Procedures | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT088 | | | |
| AC 91-43 - Unreliable Airspeed Indication | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT090 | | | |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | VOR |
| IFR Enroute Low Altitude Chart | | | |
| Navigation | Radio | | VOR |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | VOR |
| PLT091 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | ADF / NDB |
| Navigation | Radio | | VOR |
| PLT100 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| Publications | Aeronautical Information Manual | | Navigation Aids |
| PLT102 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| IFR En Route and Approach Charts | | | FLIP Approach charts |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT104 | | | |
| FAA-H-8083-2 - Risk Management Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT105 | | | |
| AC 00-6 - Aviation Weather | | | |
| Critical Weather and Windshear | Avoidance | | Radar |
| PLT118 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Basic Flight Instruments | | Attitude Indicator |
| PLT128 | | | |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| Critical Weather and Windshear | Detection | | Icing |
| Safe IFR Operations | Aircraft Systems | | Autopilot |
| Safe IFR Operations | Aircraft Systems | | Icing encounters |

PLT141[Aeronautical Information Manual](#)

| | | |
|-----------------------|-----|----------------------------|
| IFR Flight Operations | IFR | Airport lights |
| IFR Flight Operations | IFR | Airport markings and signs |

PLT161[14 CFR part 91 General Operating and Flight Rules](#)

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

[Aeronautical Information Manual](#)

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|---------------------|----------|----------------------|
| AIM IFR Information | Airspace | Class B |
| AIM IFR Information | Airspace | Class C |
| AIM IFR Information | Airspace | Class E |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |

PLT163[14 CFR part 91 General Operating and Flight Rules](#)

| | | | |
|-------------------------------------------------|-----------------|----------|---------|
| Aeronautical Information Manual | IFR Information | Airspace | Class E |
|-------------------------------------------------|-----------------|----------|---------|

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

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

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

| | | |
|-----------------------|------------------------|-----------|
| IFR Flight Operations | Flight Instrumentation | Altimeter |
|-----------------------|------------------------|-----------|

PLT166[14 CFR part 91 General Operating and Flight Rules](#)

| | | |
|-----------------------|----------|--------------------|
| Instrument Procedures | En Route | Altimeter Settings |
|-----------------------|----------|--------------------|

[Aeronautical Information Manual](#)

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|-----------------------|----------|--------------------|
| Instrument Procedures | En Route | Altimeter Settings |
|-----------------------|----------|--------------------|

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

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|-----------------------|------------------------|-----------------|
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
|-----------------------|------------------------|-----------------|

PLT167[FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge](#)

| | | |
|-----------------------|------------------------|-----------------|
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
|-----------------------|------------------------|-----------------|

PLT170[Aeronautical Information Manual](#)

| | | | |
|----------------------------------|---------------------|------|-------------------|
| IFR En Route and Approach Charts | | FLIP | Approach charts |
| Instrument Procedures | Approach Procedures | | Approach Category |
| Instrument Procedures | Approach Procedures | | Course Reversal |
| Instrument Procedures | Approach Procedures | | Missed Approach |

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

| | | | |
|----------------------------------|--|------|-----------------|
| IFR En Route and Approach Charts | | FLIP | Approach charts |
|----------------------------------|--|------|-----------------|

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

| | | |
|---------------------|----------------|------------|
| Safe IFR Operations | IFR Procedures | Approaches |
|---------------------|----------------|------------|

PLT171[Aeronautical Information Manual](#)

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

PLT172[Aeronautical Information Manual](#)

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|-----------------------|---------------------|------------------|
| Instrument Procedures | Approach Procedures | Visual / Contact |
|-----------------------|---------------------|------------------|

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

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|---------------------|-------------|-----------|
| Weather Information | Meteorology | Stability |
|---------------------|-------------|-----------|

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

| | | |
|-----------------------|----------------------------|------------------------|
| IFR Flight Operations | Flight Instrumentation | Instrument failures |
| IFR Flight Operations | Flight Instrumentation | Supporting instruments |
| Instrument Procedures | Attitude Instrument Flying | Airspeed Changes |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |

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

| | | |
|-----------------------|----------------------------|---------------------|
| IFR Flight Operations | Flight Instrumentation | Primary instruments |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Attitude Instrument Flying | Pitch |

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|----------------------------------------------------------------------------|------------------------------|-----------------------------|
| PLT187 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Basic Flight Instruments | Turn Coordinator |
| PLT192 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Clouds |
| PLT196 | | |
| Aeronautical Information Manual | | |
| Weather Information | Aeronautical Weather Reports | ATIS |
| PLT201 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Departure | Climb |
| PLT202 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | DME |
| Navigation | Radio | DME ARC |
| PLT203 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Weather Information | Meteorology | Atmosphere |
| PLT208 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Emergency Procedures | Declare an Emergency |
| Flight Operations | Emergency Procedures | Lost Communications |
| IFR Flight Operations | IFR | ATC communications |
| PLT215 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Magnetic Compass |
| PLT220 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| PLT221 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Approaches |
| PLT222 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport operations |
| PLT224 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Departure | Departure Procedures Charts |
| PLT226 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Fog |
| PLT248 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | IFR | Standard rate turn |
| PLT263 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Windshear |
| PLT275 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ILS |
| Navigation | Radio | VOR |
| PLT276 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | VOR |

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

| | | |
|-----------------------|----------------------------|---------------------|
| IFR Flight Operations | Flight Instrumentation | Primary instruments |
| 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[FAA-H-8083-15 - Instrument Flying Handbook](#)

| | | |
|------------------------------|---------------|-------------|
| Aeronautical Decision Making | Human Factors | Aeromedical |
|------------------------------|---------------|-------------|

PLT281[Airport/Facility Directory](#)

| | | |
|-------------------------------|----------------|-----------|
| IFR Navigation and Approaches | FLIP | AFD |
| Safe IFR Operations | ATC Operations | ATC tower |

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

| | | |
|---------------------|--------------------------------|-------------------------------------|
| Weather Information | Aeronautical Weather Forecasts | Wind and Temperature Aloft Forecast |
|---------------------|--------------------------------|-------------------------------------|

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

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| Weather Information | Aeronautical Weather Forecasts | TAF |
|---------------------|--------------------------------|-----|

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

| | | |
|---------------------|------------------------------|---------|
| Weather Information | Aeronautical Weather Reports | AIRMETS |
| Weather Information | Aeronautical Weather Reports | Icing |

PLT292[AC 00-45 - Aviation Weather Services](#)

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

[Aeronautical Information Manual](#)

| | | |
|-----------------------|---------------------|------------------|
| Instrument Procedures | Approach Procedures | Visual / Contact |
| Instrument Procedures | En Route | Altitudes |

[FAA-H-8083-16 - Instrument Procedures Handbook](#)

| | | |
|-----------------------|-----|----------------|
| IFR Flight Operations | IFR | IFR approaches |
|-----------------------|-----|----------------|

[Instrument Approach Procedure Charts](#)

| | | |
|-----------------------|-----|----------------|
| IFR Flight Operations | IFR | IFR approaches |
|-----------------------|-----|----------------|

PLT293[Aeronautical Information Manual](#)

| | | |
|-----------------------|-----------|-----------------------------|
| Instrument Procedures | Departure | Departure Procedures Charts |
|-----------------------|-----------|-----------------------------|

PLT296[Aeronautical Information Manual](#)

| | | |
|-----------------------|---------------------|-----------------|
| AIM IFR Information | ATC Procedures | Holding |
| Instrument Procedures | Approach Procedures | Missed Approach |
| Instrument Procedures | En Route | Holding |

PLT297[FAA-H-8083-15 - Instrument Flying Handbook](#)

| | | |
|-----------------------|----------------------------|---------------------------|
| Instrument Procedures | Attitude Instrument Flying | Unusual Attitude Recovery |
| Safe IFR Operations | IFR Procedures | Basic flight skills |

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

| | | |
|-----------------------|------------------------|---------------------|
| IFR Flight Operations | Flight Instrumentation | Instrument failures |
|-----------------------|------------------------|---------------------|

PLT298[Aeronautical Information Manual](#)

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

PLT300[14 CFR part 91 General Operating and Flight Rules](#)

| | | |
|-----------------|---------------|-----------|
| Regulations IFR | 14CFR Part 91 | VOR Check |
|-----------------|---------------|-----------|

[Aeronautical Information Manual](#)

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

PLT301[AC 00-6 - Aviation Weather](#)

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

PLT302[AC 00-6 - Aviation Weather](#)

| | | |
|---------------------|-------------|------------|
| Weather Information | Meteorology | Jet Stream |
|---------------------|-------------|------------|

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|--------------------------------------------------------------------------------------------------|---------------------|--|---------------------------------------|
| PLT317 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Hazardous | | Microburst |
| PLT318 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT323 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Flight Planning | | NOTAMS |
| PLT334 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| Human Factors | Aeromedical | | Spatial Disorientation |
| PLT344 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Precipitation |
| PLT354 | | | |
| Aeronautical Information Manual | | | |
| IFR Navigation and Approaches | Navigation Systems | | GPS |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| IFR Flight Operations | IFR | | IFR off airway routing |
| PLT361 | | | |
| Aeronautical Information Manual | | | |
| IFR Navigation and Approaches | Navigation Systems | | Non-precision approach aids |
| PLT370 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Clearance / Flight Plan |
| Aeronautical Information Manual | | | |
| Aeronautical Information Manual | IFR Information | | ATC Procedures Departure restrictions |
| IFR Flight Operations | IFR | | ATC communications |
| IFR Flight Operations | IFR | | IFR altitudes |
| Instrument Procedures | Air Traffic Control | | ATC Clearance |
| PLT379 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Alternate Airport |
| PLT403 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT409 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Logging Instrument Flight Time |
| PLT413 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Fuel Requirements |
| PLT430 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | IFR Minimum Altitudes |
| PLT438 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Supplemental Oxygen |
| PLT442 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| Regulations IFR | 14CFR Part 61 | | Logging Instrument Flight Time |
| PLT443 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Safety Plot Requirements |
| PLT444 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Preflight Action |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | Collision Avoidance |
| PLT445 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Preflight Action |

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|--------------------------------------------------------------------------------------------------|------------------------------|--|-------------------------|
| PLT451 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Limitations |
| PLT454 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Altimeter System Test |
| PLT455 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Clearance / Flight Plan |
| PLT475 | | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Thunderstorms |
| PLT495 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Thunderstorms |
| PLT507 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Navigation | Radio | | VOR Check |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | VOR |
| PLT508 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Altimeter System Test |
| Regulations IFR | 14CFR Part 91 | | VOR Check |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | VOR Check |
| PLT510 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Solar Energy |
| Weather Information | Meteorology | | Wind |
| PLT511 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Air Masses |
| Weather Information | Meteorology | | Fronts |
| PLT512 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Moisture |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Moisture |
| PLT515 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Reports | | HIWAS |
| PLT516 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Wind |
| PLT518 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Meteorology | | Windshear |
| AC 00-54 - Pilot Wind Shear Guide | | | |
| Weather Information | Meteorology | | Windshear |
| Aeronautical Information Manual | | | |
| Weather Information | Hazardous | | Microburst |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Weather Information | Meteorology | | Windshear |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Thunderstorms |

**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_g.
- 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> |
|---------------------------------------------------------------------------------|--------------------------------|------------------------------------|
| PLT012 FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Flight Planning | Enroute |
| PLT033 Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT041 FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Altimeter |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 Aeronautical Information Manual | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| PLT051 AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Forecasts | Convective Outlook (AC) |
| PLT052 FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| U.S. Terminal Procedures | | |
| Flight Operations | Emergency Procedures | Lost Communications |
| Instrument Procedures | Flight Planning | Departure Climb |
| PLT058 IFR Enroute Low Altitude Chart | | |
| Publications | Aeronautical Charts | IFR En Route |
| PLT059 AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | METAR |
| PLT068 AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | Low-Level Significant Weather Prog |
| PLT071 AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | Surface Analysis Charts |
| PLT075 AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | Weather Depiction Charts |
| PLT083 14 CFR part 97 Standard Instrument Procedures | | |
| Instrument Procedures | Approach Procedures | Minimums |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | COPTER |
| Instrument Procedures | Approach Procedures | Course Reversal |
| Publications | Aeronautical Charts | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| Regulations IFR | 14CFR Part 97 | Copter Procedures |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| U.S. Terminal Procedures | | |
| Instrument Procedures | Approach Procedures | Minimums |
| Regulations IFR | 14CFR Part 97 | Copter Procedures |

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|----------------------------------------------------------------------------|-------------------------------------------------|----------------------------|
| PLT086 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Turn-and-Slip Indicator |
| FAA-H-8083-21 - Rotorcraft Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Turn-and-Slip Indicator |
| PLT090 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | VOR |
| IFR Enroute Low Altitude Chart | | |
| Navigation | Radio | VOR |
| PLT091 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ADF / NDB |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Navigation and Approaches | Navigation Systems | VOR |
| PLT100 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Publications | Aeronautical Information Manual | Navigation Aids |
| PLT102 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP Approach charts |
| U.S. Terminal Procedures | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT118 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Gyroscopic Systems |
| PLT128 | | |
| AC 00-6 - Aviation Weather | | |
| IFR Flight Operations | IFR | Hazards |
| PLT141 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| IFR Flight Operations | IFR | Airport markings and signs |
| PLT161 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class B |
| AIM IFR Information | Airspace | Class C |
| AIM IFR Information | Airspace | Class D |
| AIM IFR Information | Airspace | Class E |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |
| PLT162 | | |
| Aeronautical Information Manual | | |
| AIM IFR Information | Airspace | Class E |
| PLT163 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | VFR on Top |
| PLT164 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | IFR | Standard rate turn |
| Safe IFR Operations | IFR Procedures | Basic flight skills |
| PLT165 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Temperature |
| PLT166 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | Altimeter Settings |
| Aeronautical Information Manual | | |
| IFR Flight Operations | Flight Instrumentation | Preflight |

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|----------------------------------------------------------------------------|------------------------------|-----------------------------|
| PLT174 | | |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Safe IFR Operations | Aircraft Systems | Autopilot |
| PLT175 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| PLT185 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| Safe IFR Operations | IFR Procedures | Basic flight skills |
| PLT186 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| PLT187 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |
| Instrument Procedures | Basic Flight Instruments | Turn Coordinator |
| Instrument Procedures | Basic Flight Instruments | Turn-and-Slip Indicator |
| Safe IFR Operations | Aircraft Systems | Turn indicators |
| PLT192 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Clouds |
| PLT196 | | |
| Aeronautical Information Manual | | |
| Weather Information | Aeronautical Weather Reports | ATIS |
| PLT202 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | DME |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | DME |
| PLT208 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Emergency Procedures | Declare an Emergency |
| Flight Operations | Emergency Procedures | Lost Communications |
| IFR Flight Operations | IFR | ATC communications |
| PLT215 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Basic Flight Instruments | Magnetic Compass |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT224 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | ATC communications |
| Instrument Procedures | Departure | Departure Procedures Charts |
| Instrument Procedures | Flight Planning | Flight Plan |
| PLT226 | | |
| AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | Fog |
| PLT274 | | |
| AC 00-6 - Aviation Weather | | |
| IFR Flight Operations | IFR | Hazards |
| PLT277 | | |
| Aeronautical Information Manual | | |
| Navigation | Radio | ILS |
| PLT278 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Pitch |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT280 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |

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|--------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|
| PLT289 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Charts / Maps | | Weather Depiction Charts |
| PLT290 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Reports | | SIGMETS |
| PLT292 | | | |
| Aeronautical Information Manual | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Navigation and Approaches | Charts | | Helicopter procedures |
| Instrument Approach Procedure Charts | | | |
| IFR Flight Operations | IFR | | IFR approaches |
| PLT293 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Departure | | Departure Procedures Charts |
| PLT296 | | | |
| Aeronautical Information Manual | | | |
| AIM IFR Information | ATC Procedures | | Holding |
| Instrument Procedures | En Route | | Holding |
| PLT298 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | Reporting |
| PLT300 | | | |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | VOR Check |
| PLT301 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Temperature |
| PLT317 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Hazardous | | Microburst |
| PLT334 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT344 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Icing |
| Weather Information | Meteorology | | Precipitation |
| PLT354 | | | |
| Aeronautical Information Manual | | | |
| Navigation | Radio | | GPS |
| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
| IFR Navigation and Approaches | Navigation Systems | | GPS |
| PLT370 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | ATC Clearance |
| PLT382 | | | |
| 14 CFR part 97 Standard Instrument Procedures | | | |
| Regulations IFR | 14CFR Part 97 | | Copter Procedures |
| PLT391 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT403 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT411 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| Regulations IFR | 14CFR Part 61 | | Limitations |
| PLT413 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Fuel Requirements |

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|--------------------------------------------------------------------------------------------------|--------------------------------|--|-----------------------------------|
| PLT420 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Takeoff / Landing - IFR |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Approach Procedures | | Course Reversal |
| PLT429 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Instrument/Equipment Requirements |
| PLT430 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | IFR Minimum Altitudes |
| PLT434 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Approach Procedures | | Visual / Contact |
| PLT442 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| PLT475 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Squalls |
| PLT493 | | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Icing |
| PLT495 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Thunderstorms |
| PLT501 | | | |
| Aeronautical Information Manual | | | |
| Weather Information | Aeronautical Weather Reports | | PIREP |
| PLT511 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Air Masses |
| Weather Information | Meteorology | | Fronts |
| PLT513 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Forecasts | | Aviation Area Forecasts (FA) |
| PLT516 | | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| Weather Information | Meteorology | | Wind |
| PLT518 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Meteorology | | Windshear |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Weather Information | Meteorology | | Windshear |

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

FLIGHT INSTRUCTOR INSTRUMENT—AIRPLANE—ADDED RATING (AIF)

1. If you experience tunnel vision and cyanosis you may have symptoms of

- A—hypoxia.
- B—hyperventilation.
- C—carbon monoxide poisoning.

Answer: A.

Learning Statement: Recall physiological factors - cause / effects of hypoxia.

2. ATC can issue a STAR

- A—to all pilots wherever STARs are available.
- B—only if the pilot requests a STAR in the 'Remarks' section of the flight plan.
- C—when ATC deems it appropriate, unless the pilot requests 'No STAR.'

Answer: C.

Learning Statement: Recall ATC - system / services.

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. 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> |
|----------------------------------------------------------------------------|--------------------------|------------------------------------|
| PLT004 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| Instrument Approach Procedure Charts | | |
| IFR Flight Operations | IFR | IFR approaches |
| PLT012 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Navigation and Approaches | Charts | Flight planning |
| Instrument Procedures | Flight Planning | Enroute |
| PLT033 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| PLT041 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altimeter Settings |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT058 | | |
| Aeronautical Chart User's Guide | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| IFR Enroute Low Altitude Chart | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | En Route | VFR on Top |
| PLT068 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | Low-Level Significant Weather Prog |
| PLT083 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Approach Procedures | Timed Approach |
| U.S. Terminal Procedures | | |
| Publications | Aeronautical Charts | Terminal Procedures |
| PLT104 | | |
| FAA-H-8083-2 - Risk Management Handbook | | |
| Aeronautical Decision Making | Human Factors | Aeromedical |
| PLT107 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Safe IFR Operations | Aircraft Systems | Electronic flight displays (EFD) |
| PLT118 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
| PLT125 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | IFR | Descents |
| PLT128 | | |
| AC 120-58 - Pilot Guide for Large Aircraft Ground Deicing | | |
| IFR Flight Operations | IFR | Hazards |
| PLT133 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Climb |
| PLT141 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport markings and signs |
| PLT147 | | |
| Aeronautical Information Manual | | |
| IFR Flight Operations | IFR | Airport lights |
| PLT161 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Instrument Procedures | En Route | VFR on Top |

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|----------------------------------------------------------------------------|--------------------------------|--|-------------------------------------|
| PLT163 | | | |
| Aeronautical Information Manual | | | |
| AIM IFR Information | Airspace | | Class G |
| PLT166 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT185 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Airspeed Changes |
| Instrument Procedures | Attitude Instrument Flying | | Descent |
| Instrument Procedures | Attitude Instrument Flying | | Fundamental Skills |
| PLT202 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | DME ARC |
| PLT215 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Bank |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT220 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Altitudes |
| PLT248 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | IFR | | Standard rate turn |
| PLT274 | | | |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| Critical Weather and Windshear | Detection | | Icing |
| PLT278 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Bank |
| Instrument Procedures | Attitude Instrument Flying | | Climb |
| PLT280 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| IFR Flight Operations | IFR | | Hazards |
| PLT284 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Weather Information | Aeronautical Weather Forecasts | | Wind and Temperature Aloft Forecast |
| PLT292 | | | |
| AC 00-45 - Aviation Weather Services | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT296 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | En Route | | Holding |
| PLT297 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Unusual Attitude Recovery |
| Safe IFR Operations | IFR Procedures | | Basic flight skills |
| PLT300 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | VOR |
| PLT330 | | | |
| Aeronautical Information Manual | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT334 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| PLT354 | | | |
| Aeronautical Information Manual | | | |
| IFR Navigation and Approaches | Navigation Systems | | GPS |
| PLT370 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Air Traffic Control | | ATC Clearance |

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|---------------|--------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|
| PLT379 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Alternate Airport |
| PLT391 | FAA-H-8083-3 - Airplane Flying Handbook | | |
| | Instrument Procedures | Communications | Reports |
| PLT406 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Instrument/Equipment Requirements |
| PLT413 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Fuel Requirements |
| PLT438 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Supplemental Oxygen |
| PLT442 | 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | |
| | Regulations IFR | 14CFR Part 61 | Currency |
| | Regulations IFR | 14CFR Part 61 | Logging Instrument Flight Time |
| PLT443 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Safety Plot Requirements |
| PLT455 | 14 CFR part 91 General Operating and Flight Rules | | |
| | Regulations IFR | 14CFR Part 91 | Clearance / Flight Plan |
| PLT509 | Aeronautical Information Manual | | |
| | 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_g.
- 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> |
|--------------------------------------------------------------------------------|-----------------------|----------------------------|
| PLT004 U.S. Terminal Procedures | Instrument Procedures | Flight Planning |
| | | Departure Climb |
| PLT012 FAA-H-8083-15 - Instrument Flying Handbook | Instrument Procedures | Flight Planning |
| | | Enroute |
| PLT033 Aeronautical Information Manual | Instrument Procedures | En Route |
| | | Altitudes |
| PLT041 FAA-H-8083-15 - Instrument Flying Handbook | IFR Flight Operations | Flight Instrumentation |
| | | Instrumentation |
| PLT044 Aeronautical Information Manual | Instrument Procedures | Air Traffic Control |
| | | ATC Clearance |
| PLT083 14 CFR part 97 Standard Instrument Procedures | Regulations IFR | 14CFR Part 97 |
| | | Copter Procedures |
| Aeronautical Information Manual | Instrument Procedures | Approach Procedures |
| | | COPTER |
| FAA-H-8083-15 - Instrument Flying Handbook | Regulations IFR | 14CFR Part 97 |
| | | Copter Procedures |
| U.S. Terminal Procedures | Regulations IFR | 14CFR Part 97 |
| | | Copter Procedures |
| PLT102 U.S. Terminal Procedures | Publications | Aeronautical Charts |
| | | Terminal Procedures |
| PLT128 AC 00-6 - Aviation Weather | IFR Flight Operations | IFR |
| | | Hazards |
| PLT141 Aeronautical Information Manual | IFR Flight Operations | IFR |
| | | Airport lights |
| | IFR Flight Operations | IFR |
| | | Airport markings and signs |
| PLT147 Aeronautical Information Manual | IFR Flight Operations | IFR |
| | | Airport lights |
| PLT161 Aeronautical Information Manual | AIM IFR Information | Airspace |
| | | Class E |
| PLT165 AC 00-6 - Aviation Weather | Weather Information | Meteorology |
| | | Temperature |
| PLT166 Aeronautical Information Manual | Instrument Procedures | En Route |
| | | Altimeter Settings |
| PLT170 Aeronautical Information Manual | Instrument Procedures | Approach Procedures |
| | | ILS / DME |
| PLT175 FAA-H-8083-15 - Instrument Flying Handbook | Instrument Procedures | Attitude Instrument Flying |
| | | Pitch |
| PLT185 FAA-H-8083-15 - Instrument Flying Handbook | IFR Flight Operations | Flight Instrumentation |
| | | Supporting instruments |
| | IFR Flight Operations | IFR |
| | | Standard rate turn |
| | Instrument Procedures | Attitude Instrument Flying |
| | | Bank |
| | Instrument Procedures | Attitude Instrument Flying |
| | | Fundamental Skills |
| | Instrument Procedures | Attitude Instrument Flying |
| | | Pitch |

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|--------------------------------------------------------------------------------------------------|----------------------------|--|-----------------------------------|
| PLT202 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | DME ARC |
| PLT208 | | | |
| Aeronautical Information Manual | | | |
| Flight Operations | Emergency Procedures | | Lost Communications |
| IFR Flight Operations | IFR | | ATC communications |
| PLT226 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Fog |
| PLT274 | | | |
| AC 00-6 - Aviation Weather | | | |
| IFR Flight Operations | IFR | | Hazards |
| PLT278 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Pitch |
| PLT301 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Temperature |
| PLT334 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
| Human Factors | Aeromedical | | Spatial Disorientation |
| PLT344 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Precipitation |
| PLT345 | | | |
| AC 00-6 - Aviation Weather | | | |
| Weather Information | Meteorology | | Pressure |
| PLT370 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | IFR altitudes |
| PLT379 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Alternate Airport |
| PLT382 | | | |
| 14 CFR part 97 Standard Instrument Procedures | | | |
| Regulations IFR | 14CFR Part 91 | | Required IFR visibility |
| Regulations IFR | 14CFR Part 97 | | Copter Procedures |
| PLT403 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT409 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Logging Instrument Flight Time |
| PLT411 | | | |
| 14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors | | | |
| Regulations IFR | 14CFR Part 61 | | Currency |
| Regulations IFR | 14CFR Part 61 | | Limitations |
| PLT413 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Fuel Requirements |
| PLT420 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Takeoff / Landing - IFR |
| PLT429 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | Instrument/Equipment Requirements |
| PLT430 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Regulations IFR | 14CFR Part 91 | | IFR Minimum Altitudes |
| PLT434 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Approach Procedures | | Visual / Contact |

PLT442

[14 CFR part 61 Certification: Pilots, Flight Instructors, and Ground Instructors](#)

Regulations IFR

14CFR Part 61

Currency

Regulations IFR

14CFR Part 61

Logging Instrument Flight Time

**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. If you experience tunnel vision and cyanosis you may have symptoms of

- A—hypoxia.
- B—hyperventilation.
- C—carbon monoxide poisoning.

Answer: A.

Learning Statement: Recall physiological factors - cause / effects of hypoxia.

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 GROUND INSTRUCTOR INSTRUMENT (IGI)

| <i>Topic</i> | <i>Content</i> | <i>Specific</i> |
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| PLT002 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| Instrument Procedures | En Route | CAS Calculations |
| PLT004 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| Instrument Approach Procedure Charts | | |
| IFR Flight Operations | IFR | IFR approaches |
| U.S. Terminal Procedures | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| PLT012 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Flight Planning | Enroute |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Navigation and Approaches | Charts | Flight planning |
| Instrument Procedures | Flight Planning | Enroute |
| PLT033 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altitudes |
| PLT041 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT044 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Air Traffic Control | ATC Clearance |
| Instrument Procedures | Communications | Terminology |
| PLT049 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | ILS |
| PLT052 | | |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| Instrument Procedures | Flight Planning | Departure Climb |
| U.S. Terminal Procedures | | |
| Flight Operations | Emergency Procedures | Lost Communications |
| PLT053 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | Flight Planning | Flight Plan |
| PLT058 | | |
| Aeronautical Chart User's Guide | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| IFR Enroute Low Altitude Chart | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Publications | Aeronautical Charts | IFR En Route |
| FAA-H-8083-16 - Instrument Procedures Handbook | | |
| IFR En Route and Approach Charts | | FLIP En route charts |
| PLT059 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | METAR |
| PLT061 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Aeronautical Weather Reports | PIREP |
| PLT068 | | |
| AC 00-45 - Aviation Weather Services | | |
| Weather Information | Charts / Maps | High-Level Significant Weather Prog |

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| PLT078 | | | |
| Airport/Facility Directory | | | |
| IFR Navigation and Approaches | FLIP | | AFD |
| PLT082 | | | |
| 14 CFR part 91 General Operating and Flight Rules | | | |
| Instrument Procedures | Approach Procedures | | Minimums |
| PLT083 | | | |
| Aeronautical Information Manual | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| FAA-H-8083-21A - Helicopter Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| U.S. Terminal Procedures | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT086 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Basic Flight Instruments | | Turn-and-Slip Indicator |
| PLT088 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| PLT090 | | | |
| IFR Enroute Low Altitude Chart | | | |
| Navigation | Radio | | VOR |
| PLT091 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Navigation | Radio | | ADF / NDB |
| Navigation | Radio | | VOR |
| PLT100 | | | |
| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | ATC communications |
| PLT102 | | | |
| Aeronautical Information Manual | | | |
| Instrument Procedures | Terminal Area Operations | | STAR |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Publications | Aeronautical Charts | | Terminal Procedures |
| PLT118 | | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| IFR Flight Operations | Flight Instrumentation | | Instrumentation |
| Instrument Procedures | Basic Flight Instruments | | Attitude Indicator |
| PLT128 | | | |
| AC 120-58 - Pilot Guide for Large Aircraft Ground Deicing | | | |
| IFR Flight Operations | IFR | | Hazards |
| AC 91-74 - Pilot Guide: Flight in Icing Conditions | | | |
| Safe IFR Operations | Aircraft Systems | | Autopilot |
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| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | Airport lights |
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| Aeronautical Information Manual | | | |
| IFR Flight Operations | IFR | | Airport lights |
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| IFR Flight Operations | IFR | | Airport lights |

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| PLT161 | | |
| 14 CFR part 91 General Operating and Flight Rules | | |
| Regulations IFR | 14CFR Part 91 | Instrument Rating |
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| AIM IFR Information | Airspace | Class B |
| AIM IFR Information | Airspace | Class C |
| AIM IFR Information | Airspace | Class D |
| AIM IFR Information | Airspace | Class E |
| AIM IFR Information | Airspace | Class G |
| AIM IFR Information | Airspace | Special use airspace |
| PLT162 | | |
| Aeronautical Information Manual | | |
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| PLT165 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
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| PLT166 | | |
| Aeronautical Information Manual | | |
| Instrument Procedures | En Route | Altimeter Settings |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT167 | | |
| FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT170 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR En Route and Approach Charts | | FLIP Approach charts |
| PLT174 | | |
| FAA-H-8083-6 - Advanced Avionics Handbook | | |
| IFR Flight Operations | Flight Instrumentation | Instrumentation |
| PLT185 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| IFR Flight Operations | IFR | Standard rate turn |
| Instrument Procedures | Attitude Instrument Flying | Airspeed Changes |
| Instrument Procedures | Attitude Instrument Flying | Fundamental Skills |
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| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Attitude Instrument Flying | Bank |
| PLT192 | | |
| AC 00-6 - Aviation Weather | | |
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| Aeronautical Information Manual | | |
| Weather Information | Aeronautical Weather Reports | ATIS |
| PLT201 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Instrument Procedures | Departure | Climb |
| PLT202 | | |
| FAA-H-8083-15 - Instrument Flying Handbook | | |
| Navigation | Radio | DME |
| Navigation | Radio | DME ARC |
| PLT208 | | |
| Aeronautical Information Manual | | |
| Flight Operations | Emergency Procedures | Declare an Emergency |
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| Instrument Procedures | Attitude Instrument Flying | Bank |
| Instrument Procedures | Basic Flight Instruments | Attitude Indicator |
| Instrument Procedures | Basic Flight Instruments | Magnetic Compass |
| Safe IFR Operations | Aircraft Systems | Magnetic compass |

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

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| IFR Flight Operations | Flight Instrumentation | Instrumentation |
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| Instrument Procedures | Departure | Departure Procedures Charts |
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PLT226[AC 00-6 - Aviation Weather](#)

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

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

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| Navigation | Radio | ILS |
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PLT276[FAA-H-8083-15 - Instrument Flying Handbook](#)

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PLT277[Aeronautical Information Manual](#)

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

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

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| Aeronautical Decision Making | Human Factors | Aeromedical |
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| Safe IFR Operations | IFR Procedures | VOR |
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[Airport/Facility Directory](#)

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| Safe IFR Operations | ATC Operations | ATC tower |
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PLT288[AC 00-45 - Aviation Weather Services](#)

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| Weather Information | Aeronautical Weather Forecasts | TAF |
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PLT289[AC 00-45 - Aviation Weather Services](#)

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| Weather Information | Charts / Maps | Weather Depiction Charts |
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PLT290[AC 00-45 - Aviation Weather Services](#)

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| Weather Information | Aeronautical Weather Reports | AIRMETS |
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| Weather Information | Aeronautical Weather Reports | SIGMETS |
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PLT292[AC 00-45 - Aviation Weather Services](#)

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| Publications | Aeronautical Charts | Terminal Procedures |
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[Instrument Approach Procedure Charts](#)

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| IFR Flight Operations | IFR | IFR approaches |
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PLT293[Aeronautical Information Manual](#)

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PLT296[Aeronautical Information Manual](#)

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| Instrument Procedures | En Route | Holding |
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| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Instrument Procedures | Attitude Instrument Flying | | Unusual Attitude Recovery |
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| Navigation | Radio | | DME |
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| Aeronautical Information Manual | | | |
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| Aeronautical Information Manual | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
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| FAA-H-8083-15 - Instrument Flying Handbook | | | |
| Aeronautical Decision Making | Human Factors | | Aeromedical |
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| Weather Information | Meteorology | | Precipitation |
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| Aeronautical Information Manual | | | |
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| FAA-H-8083-16 - Instrument Procedures Handbook | | | |
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| PLT361 | | | |
| Aeronautical Information Manual | | | |
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| PLT370 | | | |
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| 14 CFR part 91 General Operating and Flight Rules | | | |
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| Weather Information | Meteorology | | Temperature |
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| | AC 00-6 - Aviation Weather | | |
| Weather Information | Meteorology | | Thunderstorms |
| | FAA-H-8083-25 - Pilot's Handbook of Aeronautical Knowledge | | |
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