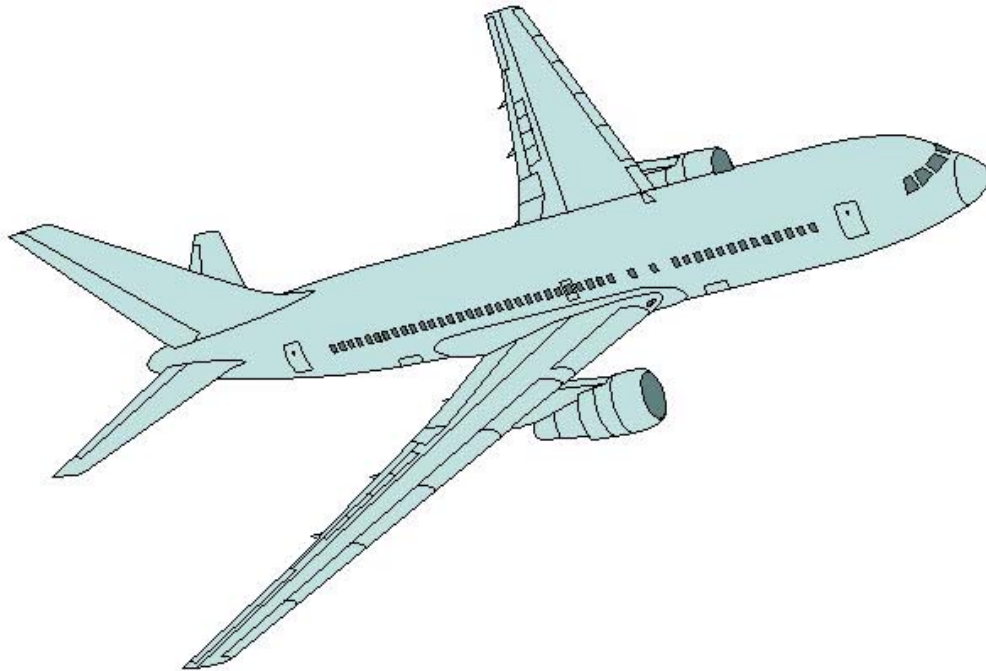


**AIRLINE TRANSPORT PILOT,
AIRCRAFT DISPATCHER,
AND
FLIGHT NAVIGATOR
KNOWLEDGE TEST GUIDE**



August 2012



INTRODUCTION

FAA-G-8082-1H, Airline Transport Pilot, Aircraft Dispatcher, and Flight Navigator Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes FAA-G-8082-1G, dated February 2012.

TEST NAME	TEST CODE
Airline Transport Pilot Airplane (121)	ATP
Airline Transport Pilot Airplane (135)	ATA
Airline Transport Pilot Airplane (135) (added rating)	ARA
Airline Transport Pilot Helicopter (135)	ATH
Airline Transport Pilot Helicopter (135) (added rating)	ARH
Airline Transport Pilot Powered Lift (135)	ATL
Airline Transport Pilot Powered Lift (135) (added rating)	ARL
(NOTE: ATL and ARL tests are not currently available due to lack of certified powered lift civil aircraft.)	
Aircraft Dispatcher	ADX
Flight Navigator	FNX

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

The general qualifications for an Airline Transport Pilot, Aircraft Dispatcher, or Flight Navigator Certificate require that you have a combination of experience, knowledge, and skill.

Title 14 of the Code of Federal Regulations (14 CFR) part 61 requires that pilots must be able to read, write, speak, and understand the English language. If you cannot meet these requirements of English fluency, an airman certificate cannot be issued. For medical reasons, an appropriate limitation may be placed on the certificate.

14 CFR part 63 does not require that a limitation be placed on the certificate if a flight navigator cannot read, write, speak, or understand the English language.

14 CFR part 65 requires that an aircraft dispatcher must be able to read, speak, and understand the English language. If unable to do so, an appropriate limitation may be placed on the certificate.

If you are pursuing an Airline Transport Pilot (or added rating), Flight Navigator, Aircraft Dispatcher Certificates, you should carefully review the appropriate sections of 14 CFR part 61, 63, or 65 respectively for detailed information pertaining to this subject.

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

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

KNOWLEDGE AREAS ON THE TESTS

If you are pursuing an Airline Transport Pilot Certificate or added rating, you should review the appropriate sections of 14 CFR part 61 for the specific knowledge areas on each test.

Those taking the Airline Transport Pilot (14 CFR part 121) Airplane (ATP) Test, will be tested on part 121 as one of the knowledge areas.

Those taking the Airline Transport Pilot (14 CFR part 135) Airplane (ATA) or Powered-Lift (ATL) Test will be tested on part 135 as one of the knowledge areas.

All other knowledge areas are not specified as being for part 121 or part 135, and the questions may be used on any of the tests.

If you are pursuing a Flight Navigator Certificate, you should review the appropriate sections of 14 CFR part 63 for the specific knowledge areas on the test.

If you are pursuing an Aircraft Dispatcher Certificate, you should review the appropriate sections of 14 CFR part 65 for the specific knowledge areas on the test. You will be tested on part 121 as one of the knowledge areas. If part 135 commuter operators (as defined in DOT part 298) are required to have aircraft dispatchers in the future, part 135 questions will be added to the test. The aircraft dispatcher applicant is not required to have the flying skills of an airline transport pilot, but is expected to have the same knowledge.

DESCRIPTIONS OF THE TESTS

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

Each of the following tests contains 80 questions, and you are allowed 3 hours to complete each test.

- Airline Transport Pilot Airplane (121)
- Airline Transport Pilot Airplane (135)
- Airline Transport Pilot Helicopter (135)
- Airline Transport Pilot Powered-Lift (135)
- Flight Navigator
- Aircraft Dispatcher

Each of the following tests contains 50 questions, and you are allowed 2.5 hours to complete each test.

- Airline Transport Pilot Airplane Added Rating (135)
- Airline Transport Pilot Helicopter Added Rating (135)

TEST REGISTRATION

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

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

APPLICANT IDENTIFICATION AND TEST AUTHORIZATION

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

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

TEST TAKING TIPS

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

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

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

USE OF TEST AIDS AND MATERIALS

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

The following guidelines apply:

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

TESTING PROCEDURES FOR APPLICANTS REQUESTING SPECIAL ACCOMMODATIONS

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

- Option 1. Use current testing facilities and procedures whenever possible.
- Option 2. You may use a self-contained, electronic device which pronounces and displays typed-in words (e.g., the Franklin Speaking Wordmaster®) to facilitate the testing process. (NOTE: The device should consist of an electronic thesaurus that audibly pronounces typed-in words and presents them on a display screen. The device should also have a built-in headphone jack for private listening in order to avoid disturbing others during testing.)
- Option 3. If you do not choose to use the first or second option, you may request Unit Member assistance in reading specific words or terms from the test questions and/or supplement book. In the interest of preventing compromise of the testing process, the Unit Member must be an individual with no aviation background or expertise. The Unit Member must provide reading assistance only, with no explanation of words or terms. When this option is requested, the FSDO or IFO inspector must contact the Airman Testing Standards Branch (AFS-630) for assistance in selecting the test site and assisting Unit Member.

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

CHEATING OR OTHER UNAUTHORIZED CONDUCT

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

LEARNING STATEMENTS

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

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

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

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

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

AIRMAN KNOWLEDGE TEST REPORTS

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

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

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

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

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

TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

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

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

Advisory Circulars

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

Airworthiness Directives

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

Code of Federal Regulations

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


Computer Testing Supplements


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

Knowledge Test Centers

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

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

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

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

Knowledge Test Questions

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

Knowledge Test Statistics

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

Practical Test Standards

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

Training Handbooks

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

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

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

**Airline Transport Pilot—Airplane—Part 121 (ATP)
Sample Questions**

AIRLINE TRANSPORT PILOT—AIRPLANE—Part 121 (ATP)

1. How does V_s (KTAS) speed vary with altitude?

- A—Remains the same at all altitudes.
- B—Varies directly with altitude.
- C—Varies inversely with altitude.

Answer: B.

Learning Statement: Recall aircraft performance-atmospheric effects.

2. Which is the purpose of wing-mounted vortex generators?

- A—Delays the onset of drag divergence at high speeds and aids in maintaining aileron effectiveness at high speeds.
- B—Breaks the airflow over the wing so the stall will progress from the root out to the tip of the wing.
- C—Increase the onset of drag divergence and aid in aileron effectiveness at low speed.

Answer: A.

Learning Statement: Recall high lift devices-characteristics/functions.

3. KFTW UA/OV DFW/TM 1645/FL100/TP PA 30/SK SCT031-TOP043/BKN060-TOP085/OVC097-TOPUNKN/WX FV00SM R/TA 07

This pilot report to Fort Worth (KFTW) indicates

- A—The aircraft is in light rain.
- B—The ceiling at KDFW is 6,000 feet.
- C—The top of the ceiling is 4,300 feet.

Answer: B.

Learning Statement: Interpret information on a PIREP.

4. (Refer to Appendix 2, Figures 61-62) What is the trip time for Operating Conditions X-1?

- A—4 hours, 15 minutes.
- B—4 hours, 5 minutes.
- C—4 hours.

Answer: C.

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

5. Pilots are not authorized to fly a published RNAV or RNP procedure unless it is retrievable by the procedure name from

- A—the aircraft navigation database, or manually loaded with each individual waypoint in the correct sequence.
- B—the aircraft navigation database, or manually loaded with each individual waypoint and verified by the pilot(s).
- C—the aircraft navigation database.

Answer: C.

Learning Statement: Recall instrument/navigation system checks/inspections-limits/tuning/identifying/logging.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE AIRLINE TRANSPORT PILOT—AIRPLANE—Part 121 (ATP) KNOWLEDGE TEST

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT004		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Engine Out Performance
PLT007		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Holding
Aircraft Performance	Charts	Landing
Aircraft Performance	Charts	Takeoff
PLT008		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Landing
PLT010		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Takeoff
PLT011		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Takeoff
PLT012		
Instrument Flying Handbook, FAA-H-8083-15		
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Alternate
Aircraft Performance	Charts	Cruise
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Aircraft Performance	Computations	Mach
Aircraft Performance	Computations	Preflight Planning
Navigation	Radio	VOR
PLT015		
Aerodynamics for Naval Aviators		
Aerodynamics	Performance	Normal Flight
Aircraft Performance	Computations	Specific Range: NAM/1000# Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Computations	Specific Range: NAM/1000# Fuel
Aircraft Performance	Limitations	Best Range
PLT016		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Aircraft Performance	Computations	Fuel Dump
PLT018		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor	Angle of Bank
PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Weight / Moment Indexes
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Shifting Weight
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Landing
PLT022		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aeronautical Decision Making (ADM)	Risk Management
Human Factors	Aeronautical Decision Making (ADM)	Situational Awareness
PLT023		
AC 00-6 Aviation Weather		
Navigation	Instrumentation	Altimeter

PLT024			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Stability
PLT029			
14 CFR 121			
Regulations	14CFR Part 121		Flight Crewmember Duties
Instrument Procedures Handbook, FAA-H-8261-1			
Regulations	14CFR Part 121		Flight Crewmember Duties
PLT031			
AC 00-6 Aviation Weather			
Meteorology	Air Masses and Fronts		Winds
PLT032			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Airspeed		Mach
PLT034			
14 CFR 121			
Regulations	14CFR Part 121		Takeoff Minimums
PLT038			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Charts		Takeoff
PLT040			
14 CFR 71			
Regulations	14CFR Part 91		Airspace
Aeronautical Information Manual			
Regulations	14CFR Part 91		Airspace
PLT042			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Constant Pressure Analysis Charts
PLT044			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		After landing
Air Traffic Control Procedures	Departure		Speed Adjustments
Air Traffic Control Procedures	Departure		Takeoff
Air Traffic Control Procedures	En Route		Speed Adjustments
Air Traffic Control Procedures	Ground		Ground Hold Delays
PLT045			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Charts		Descent
PLT047			
Aeronautical Information Manual			
Navigation	Avionics		Airborne equipment
PLT049			
14 CFR 61			
Navigation	Flight Operations		Approach chart
14 CFR 91			
Navigation	Flight Operations		Approach chart
AC 00-45 Aviation Weather Services			
Navigation	Flight Operations		Approach chart
Aeronautical Information Manual			
Navigation	Radio		ILS
Navigation	Radio		Instrument Approach
U.S. Terminal Procedures			
Navigation	Avionics		Airborne equipment
Navigation	Flight Operations		Approach chart
Navigation	Radio		ILS
Navigation	Radio		Instrument Approach
Navigation	Radio		Non-precision approach

PLT052			
14 CFR 121			
Regulations	14CFR Parts 121/135		Performance requirements
Aeronautical Information Manual			
Regulations	14CFR Parts 121/135		Performance requirements
U.S. Terminal Procedures			
Instrument Procedures	Instrument Departures		SID
PLT055			
Aeronautical Information Manual			
Air Traffic Control Procedures	En Route		Airways and Route Systems
IFR Enroute High Altitude Chart			
Navigation	Flight Operations		IFR en route charts
PLT058			
IFR Enroute Low Altitude Chart			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
Navigation	Flight Operations		IFR en route charts
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		VOR
Instrument Procedures Handbook, FAA-H-8261-1			
Navigation	Flight Operations		IFR en route charts
PLT059			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Aviation Routine Weather Reports (METAR)
Weather	Aeronautical Weather Reports		Aviation Selected Special Report (SPECI)
Weather	Aeronautical Weather Reports		Aviation Weather Reports
PLT063			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Radar Summary Charts
PLT068			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Significant Weather Prognostic Charts
PLT072			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		TAF
PLT073			
Airport/Facility Directory			
Air Traffic Control Procedures	En Route		Tower en route
PLT075			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT076			
AC 00-45 Aviation Weather Services			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
Weather	Aeronautical Weather Forecasts		Winds / Temperatures Aloft Forecasts
PLT077			
U.S. Terminal Procedures			
Navigation	Flight Operations		Airport
PLT078			
Airport/Facility Directory			
Navigation	Flight Operations		Communications
Navigation	Flight Operations		Runway
U.S. Terminal Procedures			
Navigation	Flight Operations		Airport
PLT080			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Approach Control
Air Traffic Control Procedures	Communications		Clearances
U.S. Terminal Procedures			
Navigation	Flight Operations		Arrivals
PLT082			
U.S. Terminal Procedures			
Regulations	14CFR Parts 121/135		Flight Planning

PLT083[Aeronautical Information Manual](#)

Air Traffic Control Procedures	Arrival	Instrument Approach Procedures
Air Traffic Control Procedures	Arrival	Missed Approach

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

Navigation	Radio	DME
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[U.S. Terminal Procedures](#)

Navigation	Flight Operations	Approach chart
Navigation	Radio	ILS

PLT090[Aeronautical Information Manual](#)

Navigation	Radio	Non-precision approach
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[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	CDI
Navigation	Radio	VOR

[U.S. Terminal Procedures](#)

Navigation	Flight Operations	Approach chart
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PLT091[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	RMI (Radio Magnetic Indicator)
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PLT094[Aerodynamics for Naval Aviators](#)

Aerodynamics	Stall / Spins	Angle of Attack
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PLT099[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Flight Illusions
Human Factors	Aeromedical Factors	Physiological

PLT102[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Scanning
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PLT104[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aeronautical Decision Making (ADM)		Judgment	Automatic Decisions
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Human Factors	Aeronautical Decision Making (ADM)	Problem Detection
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[Risk Management Handbook](#)

Aeronautical Decision Making (ADM)		Risk Management Hazardous Phase of Flight
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PLT108[AC 120-58 Pilot Guide for Large Aircraft Ground Deicing](#)

Aerodynamics	Powerplant	Turbine
Meteorology	Hazardous	Icing

[AC 135-17 Pilot Guide-Small Aircraft Ground Deicing](#)

Meteorology	Hazardous	Icing
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PLT121[Aircraft Weight and Balance Handbook, FAA-H-8083-1](#)

Weight and Balance	Aircraft Loading	Limitations
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PLT123[Aerodynamics for Naval Aviators](#)

Aircraft Performance	Limitations	Best Range
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PLT124[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aircraft Performance	Atmospheric Effects	Instrumentation Error
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PLT127[Airplane Flying Handbook, FAA-H-8083-3A](#)

Aerodynamics	Powerplant	Turbine
Aerodynamics	Powerplant	Turboprop

PLT128[AC 120-58 Pilot Guide for Large Aircraft Ground Deicing](#)

Aerodynamics	Flight Characteristics	Flight hazards
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PLT129[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aircraft Performance	Charts	Runway
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PLT131		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Ground Effect
PLT139		
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PLT514[AC 00-6 Aviation Weather](#)

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PLT519[AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook](#)

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PLT523[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

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PLT524[Advanced Avionics Handbook, FAA-H-8083-6](#)

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**Airline Transport Pilot—Airplane—Part 135 (ATA)
Sample Questions**

AIRLINE TRANSPORT PILOT—AIRPLANE—Part 135 (ATA)

1. Within what Mach range does transonic flight regimes usually occur?

- A—1.20 to 2.50 Mach.
- B—.50 to .75 Mach.
- C—.75 to 1.20 Mach.

Answer: C.

Learning Statement: Define Mach speed regimes.

2. How does V_s (KTAS) speed vary with altitude?

- A—Remains the same at all altitudes.
- B—Varies directly with altitude.
- C—Varies inversely with altitude.

Answer: B.

Learning Statement: Recall aircraft performance-atmospheric effects.

3. Which is the purpose of wing-mounted vortex generators?

- A—Delays the onset of drag divergence at high speeds and aids in maintaining aileron effectiveness at high speeds.
- B—Breaks the airflow over the wing so the stall will progress from the root out to the tip of the wing.
- C—Increase the onset of drag divergence and aid in aileron effectiveness at low speed.

Answer: A.

Learning Statement: Recall high lift devices-characteristics/functions.

4. In a light, twin-engine airplane with one engine operative, when is it acceptable to allow the ball of a slip-skid indicator to be

- A—When practicing imminent stalls in a banked attitude of over 60°.
- B—While maneuvering at minimum controllable airspeed or less to avoid overbanking.
- C—When operating at any airspeed of V_{mc} or greater with only enough deflection to zero the side slip.

Answer: C.

Learning Statement: Recall flight operations multi-engine—engine inoperative procedures.

5. Which feature is associated with the tropopause?

- A—Absence of wind and turbulence.
- B—Abrupt change of temperature lapse rate.
- C—Absolute upper limit of cloud formation.

Answer: B.

Learning Statement: Recall Earth's atmosphere-layers/characteristics/solar energy.

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PLT042[AC 00-45 Aviation Weather Services](#)

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[IFR Enroute High Altitude Chart](#)

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[IFR Enroute Low Altitude Chart](#)

Air Traffic Control Procedures	Communications	ATC Communications
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Navigation	Flight Operations	IFR en route charts
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[Instrument Procedures Handbook, FAA-H-8261-1](#)

Navigation	Flight Operations	IFR en route charts
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PLT059			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Aviation Routine Weather Reports (METAR)
Weather	Aeronautical Weather Reports		Aviation Selected Special Report (SPECI)
Weather	Aeronautical Weather Reports		Aviation Weather Reports
PLT063			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Radar Summary Charts
PLT065			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Charts		Engine Out Performance
PLT066			
AC 00-45 Aviation Weather Services			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
PLT068			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Significant Weather Prognostic Charts
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Tropical Cyclone
PLT073			
Airport/Facility Directory			
Air Traffic Control Procedures	En Route		Tower en route
PLT075			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT076			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Winds / Temperatures Aloft Forecasts
PLT077			
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Navigation	Flight Operations		Airport
PLT078			
Airport/Facility Directory			
Air Traffic Control Procedures	Communications		Pilot Procedures
Air Traffic Control Procedures	Ground		Taxi
National Weather Service (NWS)	Functions		Aeronautical Weather Reports
National Weather Service (NWS)	Functions		Weather outlets
Navigation	Flight Operations		Communications
Navigation	Flight Operations		Runway
IFR Enroute Low Altitude Chart			
Air Traffic Control Procedures	Communications		Pilot Procedures
PLT080			
Aeronautical Information Manual			
Navigation	Radio		STAR
Instrument Procedures Handbook, FAA-H-8261-1			
Navigation	Flight Operations		Arrivals
STARs - Standard Terminal Arrivals			
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PLT082			
U.S. Terminal Procedures			
Regulations	14CFR Parts 121/135		Flight Planning

PLT083[Aeronautical Information Manual](#)

Air Traffic Control Procedures	Arrival	Missed Approach
Navigation	Radio	Instrument Approach

[Airport/Facility Directory](#)

Navigation	Flight Operations	Airport
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[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	DME
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[U.S. Terminal Procedures](#)

Navigation	Flight Operations	Approach chart
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PLT090[Aeronautical Information Manual](#)

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

Navigation	Radio	CDI
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[U.S. Terminal Procedures](#)

Navigation	Flight Operations	VOR
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		Approach chart
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PLT091[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	RMI (Radio Magnetic Indicator)
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PLT093[14 CFR 135](#)

Regulations	14CFR Part 135	Aircraft Equipment
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PLT094[Aerodynamics for Naval Aviators](#)

Aerodynamics	Stall / Spins	Angle of Attack
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PLT098[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Fitness for Flight
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PLT099[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Flight Illusions
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[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Human Factors	Aeromedical Factors	Scanning
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PLT102[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Scanning
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PLT104[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aeronautical Decision Making (ADM)		Judgment	Automatic Decisions
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Human Factors	Aeronautical Decision Making (ADM)	Problem Detection
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[Risk Management Handbook](#)

Aeronautical Decision Making (ADM)		Risk Management Hazardous Phase of Flight
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PLT108[14 CFR 135](#)

Regulations	14CFR Part 135	135 Pre-takeoff checks
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[AC 120-58 Pilot Guide for Large Aircraft Ground Deicing](#)

Meteorology	Hazardous	Icing
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[AC 135-17 Pilot Guide-Small Aircraft Ground Deicing](#)

Meteorology	Hazardous	Icing
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PLT121[Aircraft Weight and Balance Handbook, FAA-H-8083-1](#)

Weight and Balance	Aircraft Loading	Limitations
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PLT123[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aircraft Performance	Charts	Takeoff
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PLT124[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aircraft Performance	Atmospheric Effects	Instrumentation Error
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PLT127[Airplane Flying Handbook, FAA-H-8083-3A](#)

Aerodynamics	Powerplant	Turbine
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PLT128 AC 135-17 Pilot Guide-Small Aircraft Ground Deicing Meteorology	Hazardous	Icing
PLT131 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Flight Characteristics	Normal Flight
PLT132 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Performance	Abnormal Flight
PLT139 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
Aerodynamics for Naval Aviators Aerodynamics	Stall / Spins	Stall Warning Devices
PLT141 Aeronautical Information Manual Air Traffic Control Procedures	Ground	Landing roll out
Navigation	Flight Operations	Runway
Navigation	Pilotage	Taxiway markings
Navigation	Pilotage	Taxiway signs
PLT143 Airport/Facility Directory Navigation	Flight Operations	Airport
PLT144 Airplane Flying Handbook, FAA-H-8083-3A Aircraft Performance	Atmospheric Effects	Braking action
Aircraft Performance	Computations	Braking action
Aircraft Performance	Limitations	Braking action
PLT145 Aeronautical Information Manual Navigation	Flight Operations	Runway
PLT147 Aeronautical Information Manual Aircraft Performance	Computations	Approach angle
Navigation	Flight Operations	Runway
U.S. Terminal Procedures Navigation	Flight Operations	Airport
PLT148 Aeronautical Information Manual Navigation	Flight Operations	Runway
PLT161 14 CFR 91 Navigation	Airspace	Class B
Regulations	14CFR Part 91	Airspace
Regulations	14CFR Part 91	Flight Rules
Aeronautical Information Manual Air Traffic Control Procedures	Communications	Airspace Requirements
Air Traffic Control Procedures	En Route	ADIZ
Navigation	Airspace	Special airspace
PLT162 Aeronautical Information Manual Air Traffic Control Procedures	Communications	Traffic alert / collision avoidance
Air Traffic Control Procedures	En Route	MOA
PLT163 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT164 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Lift

PLT170[Airplane Flying Handbook, FAA-H-8083-3A](#)

Aerodynamics Powerplant Turbine

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

Navigation Flight Operations Approach

PLT171[Aeronautical Information Manual](#)

Air Traffic Control Procedures Communications Pilot Procedures

PLT172[Aeronautical Information Manual](#)

Air Traffic Control Procedures Approach Priority

Air Traffic Control Procedures Arrival Approach Control

Air Traffic Control Procedures Arrival Uncontrolled Field

Air Traffic Control Procedures Communications ATC Altitude Alerts

Air Traffic Control Procedures En Route Traffic Separation

Air Traffic Control Procedures Services Class C

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

Air Traffic Control Procedures Approach PRM

PLT192[AC 00-45 Aviation Weather Services](#)

Meteorology Clouds Cumuliform

[AC 00-6 Aviation Weather](#)

Meteorology Clouds Moisture/cloud formation/precipitation

Meteorology Clouds Turbulence

PLT193[14 CFR 135](#)

Regulations 14CFR Part 135 Aircraft Equipment

PLT195[Aeronautical Information Manual](#)

Air Traffic Control Procedures Communications Traffic alert / collision avoidance

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

Navigation Radio DME

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

Meteorology Atmosphere Troposphere

PLT205[Aeronautical Information Manual](#)

Human Factors Aeromedical Factors Alcohol

PLT207[Aeronautical Information Manual](#)

Navigation Avionics Airborne equipment

PLT208[14 CFR 91](#)

Navigation Flight Operations Communications

PLT213[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aerodynamics Stability / Control Longitudinal Stability

Aerodynamics Stability / Control Static

PLT214[AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook](#)

Aerodynamics Principles of Flight Lift

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

Aerodynamics Principles of Flight Lift

PLT221[14 CFR 91](#)

Navigation Avionics Electronic glide path

PLT223			
14 CFR 135			
Regulations	14CFR Part 135		Performance Requirements
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Performance		Abnormal Flight
Aerodynamics	Principles of Flight		Drag
Aircraft Performance	Limitations		Vmc
PLT226			
AC 00-6 Aviation Weather			
Meteorology	Clouds		Fog
PLT235			
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Performance		Abnormal Flight
PLT237			
Aerodynamics for Naval Aviators			
Aerodynamics	Load Factor		Lift
PLT240			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Weight and Balance	Center of Gravity		Effect of Load Distribution
Weight and Balance	Center of Gravity		Stability
PLT242			
Aerodynamics for Naval Aviators			
Aerodynamics	Stall / Spins		Angle of Attack
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Wing
Aerodynamics	Principles of Flight		Lift
PLT245			
Aerodynamics for Naval Aviators			
Aerodynamics	Principles of Flight		Lift
Aerodynamics	Stall / Spins		Stall Warning Devices
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Lift
PLT248			
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT263			
AC 00-30 Atmospheric Turbulence Avoidance			
Meteorology	Atmosphere		Troposphere
Weather	High Altitude		Clear Air Turbulence
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Arctic weather
Meteorology	Hazardous		Icing
Windshear / Turbulence	Clear Air Turbulence		High altitude
PLT266			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Performance		Normal Flight
PLT274			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Icing
Meteorology	Icing		Structural icing
AC 91-74 Pilot Guide: Flight in Icing Conditions			
Meteorology	Hazardous		Icing
PLT276			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		VOR
PLT277			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		ILS
PLT279			
Aeronautical Information Manual			
Navigation	Radio		RNAV

PLT280			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Flight Illusions
Human Factors	Aeromedical Factors		Spatial Disorientation
PLT282			
14 CFR 135			
Regulations	14CFR Part 135		Aircraft Equipment
Regulations	14CFR Part 135		Operator / Control / Manual(s) / Operation Specs
Regulations	14CFR Part 135 Subpart J		Maintenance Requirements
PLT283			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Constant Pressure Analysis Charts
PLT286			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Significant Weather Prognostic Charts
PLT288			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Aviation Weather Forecasts
Weather	Aeronautical Weather Forecasts		TAF
PLT289			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT290			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		SIGMETs
Aeronautical Information Manual			
Weather	Aeronautical Weather Forecasts		SIGMETs
PLT294			
Aeronautical Information Manual			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
National Weather Service (NWS)	Functions		En Route Flight Advisory Service (EFAS)
PLT296			
Aeronautical Information Manual			
Navigation	Radio		Holding
Navigation	Radio		Instrument Approach
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		ADF / NDB
PLT301			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Temperature
PLT302			
AC 00-30 Atmospheric Turbulence Avoidance			
Meteorology	High Altitude		Jet Stream
AC 00-6 Aviation Weather			
Meteorology	Clouds		Jetstream
Meteorology	High Altitude		Jet Stream
PLT305			
AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook			
Aerodynamics	Flight Controls		Secondary flight controls
PLT309			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Angle of Bank
PLT310			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Lift
PLT316			
AC 00-45 Aviation Weather Services			
Weather	Hazardous		Thunderstorms

PLT317[AC 00-54 Pilot Wind Shear Guide](#)

Windshear / Turbulence	Microbursts	Performance
Windshear / Turbulence	Microbursts	Windshear

[Aeronautical Information Manual](#)

Windshear / Turbulence	Microbursts	Performance
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PLT318[Aeronautical Information Manual](#)

Air Traffic Control Procedures	Arrival	Low fuel
Air Traffic Control Procedures	Communications	Pilot Procedures

PLT327[14 CFR 135](#)

Regulations	14CFR Part 135	Aircraft Equipment
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PLT330[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Physiological
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[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Human Factors	Aeromedical Factors	Physiological
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PLT332[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Fitness for Flight
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PLT334[Aeronautical Information Manual](#)

Human Factors	Aeromedical Factors	Flight Illusions
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PLT337[AC 91-43 Unreliable Airspeed Indication](#)

Navigation	Instrumentation	Airspeed indicator
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PLT343[14 CFR 1](#)

Aerodynamics	Powerplant	Reciprocating
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PLT344[AC 00-6 Aviation Weather](#)

Meteorology	Hazardous	Icing
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PLT346[AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook](#)

Aerodynamics	Flight Controls	Primary flight controls
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PLT348[Airplane Flying Handbook, FAA-H-8083-3A](#)

Aerodynamics	Principles of Flight	Forces Acting on Aircraft
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Aerodynamics	Principles of Flight	Forces Acting on Wing
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PLT354[Aeronautical Information Manual](#)

Air Traffic Control Procedures	Preflight	Flight plan
Navigation	Avionics	Airborne equipment
Navigation	Flight Operations	Preflight planning/calculations
Navigation	Radio	GPS

[U.S. Terminal Procedures](#)

Navigation	Flight Operations	Approach chart
Navigation	Radio	Non-precision approach

PLT355[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	HSI
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Navigation	Radio	ILS
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PLT356[Aeronautical Information Manual](#)

Navigation	Radio	ILS
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PLT357[Instrument Flying Handbook, FAA-H-8083-15](#)

Navigation	Radio	Instrument Approach
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PLT358[Aeronautical Information Manual](#)

Navigation	Radio	ILS
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PLT361 Instrument Flying Handbook, FAA-H-8083-15 Navigation	Radio	SDF
PLT366 49 CFR 830 Regulations	NTSB Part 830	Definitions
Regulations	NTSB Part 830	Reports / Reporting
PLT367 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
14 CFR 91 Regulations	14CFR Part 91	Limitations
PLT370 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
Aeronautical Information Manual Air Traffic Control Procedures	Communications	ATC Communications
Air Traffic Control Procedures	En Route	Speed Adjustments
PLT375 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping
PLT379 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT380 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT382 U.S. Terminal Procedures Navigation	Radio	VOR
PLT384 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT385 14 CFR 135 Regulations	14CFR Part 135	Cargo / Carry on Baggage
PLT388 14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT389 14 CFR 119 Regulations	14CFR Part 119	Definitions
Aeronautical Information Manual Navigation	Radio	GPS
PLT391 14 CFR 91 Regulations	14CFR Part 91	Instrument Flight Rules
PLT392 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT393 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT395 14 CFR 1 Regulations	14CFR Part 1	General Definitions
14 CFR 119 Regulations	14CFR Part 119	Definitions
PLT400 14 CFR 121/135 Regulations	14CFR Part 135 Subpart B	Records Keeping
14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping

PLT404 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
PLT405 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT406 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	Instrument Flight Rules
Aeronautical Information Manual Air Traffic Control Procedures	Approach	Simultaneous ILS approaches
PLT407 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
Regulations	14CFR Part 135 Subpart E	Operating Experience
PLT409 14 CFR 121 Regulations	14CFR Part 121	Flight Time / Duty / Rest / Requirements
14 CFR 135 Regulations	14CFR Part 135	Flight / Duty - Times / Limitations
14 CFR 61 Regulations	14CFR Part 61	Instrument Currency
Regulations	14CFR Part 61	Limitations
PLT413 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT416 49 CFR 830 Regulations	NTSB Part 830	Reports / Reporting
PLT420 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
14 CFR 91 Regulations	14CFR Part 91	Instrument Flight Rules
Aeronautical Information Manual Air Traffic Control Procedures	Approach	ASR approach
Air Traffic Control Procedures	Approach	Radar advisories
PLT424 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135	Flight Operations
Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT427 14 CFR 61 Regulations	14CFR Part 61	Limitations
PLT428 14 CFR 135 Regulations	14CFR Part 135	MEL/CDL
Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT429 14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT432 14 CFR 1 Regulations	14CFR Part 1	General Definitions
PLT434 Aeronautical Information Manual Air Traffic Control Procedures	Arrival	After landing
Air Traffic Control Procedures	Departure	Takeoff

PLT437		
14 CFR 135		
Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135	Performance Requirements
PLT438		
14 CFR 135		
Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135 Subpart B	Oxygen Requirements in Unpressurized Aircraft
PLT442		
14 CFR 135		
Regulations	14CFR Part 135	Testing
Regulations	14CFR Part 135 Subpart E	Operating Experience
14 CFR 61		
Regulations	14CFR Part 135 Subpart E	Operating Experience
PLT443		
14 CFR 121		
Regulations	14CFR Part 61	Limitations
14 CFR 135		
Regulations	14CFR Part 135	Crew Requirements
Regulations	14CFR Part 135 Subpart E	Qualifications
14 CFR 61		
Regulations	14CFR Part 61	Drug / Alcohol Impairment
Regulations	14CFR Part 61	Type Rating
PLT444		
14 CFR 121/135		
Regulations	14CFR Parts 121/135	Persons Not Passengers
14 CFR 135		
Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
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Regulations	14CFR Part 61	Limitations
PLT449		
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Regulations	14CFR Part 135	Testing
PLT454		
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Regulations	14CFR Part 135	Aircraft Equipment
PLT456		
14 CFR 135		
Regulations	14CFR Part 135 Subpart I	Required Landing Planning
PLT459		
14 CFR 135		
Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
Regulations	14CFR Part 135 Subpart D	Weather Requirements
Regulations	14CFR Part 135 Subpart I	Performance Planning / General
14 CFR 91		
Regulations	14CFR Part 91	Instrument Flight Rules
PLT460		
14 CFR 135		
Regulations	14CFR Part 135	Training
PLT462		
14 CFR 135		
Regulations	14CFR Part 135	Aircraft Equipment
PLT463		
14 CFR 135		
Regulations	14CFR Part 135 Subpart E	Drug Testing
14 CFR 61		
Regulations	14CFR Part 61	Limitations
PLT464		
14 CFR 135		
Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties

PLT466			
Airplane Flying Handbook, FAA-H-8083-3A			
Weight and Balance	Center of Gravity		Limitations
PLT467			
14 CFR 91			
Regulations	14CFR Part 91		Flight Rules
PLT469			
14 CFR 135			
Regulations	14CFR Part 135		Aircraft Equipment
PLT473			
AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook			
Aerodynamics	Flight Controls		Secondary flight controls
PLT475			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Definitions
PLT477			
Aerodynamics for Naval Aviators			
Aerodynamics	Stall / Spins		Angle of Attack
Aerodynamics	Stall / Spins		Stall Warning Devices
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Principles of Flight		Hazards
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Stall Speed
PLT493			
14 CFR 135			
Regulations	14CFR Part 135 Subpart D		Icing Conditions - Deicing
AC 00-6 Aviation Weather			
Meteorology	Icing		Frost
AC 135-17 Pilot Guide-Small Aircraft Ground Deicing			
Aerodynamics	Principles of Flight		Hazards
AC 20-117 Hazards Following Ground Deicing and Ground Operations in Conditions Conducive to Aircraft			
Aerodynamics	Principles of Flight		Hazards
PLT495			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Thunderstorms
PLT497			
Aeronautical Information Manual			
Navigation	Avionics		Transponder operation
PLT499			
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Powerplant		Turbine
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Powerplant		Turbine
PLT501			
AC 00-30 Atmospheric Turbulence Avoidance			
Windshear / Turbulence	Clear Air Turbulence		Windshear
Aeronautical Information Manual			
Windshear / Turbulence	Clear Air Turbulence		Reports
PLT506			
14 CFR 1			
Regulations	14CFR Part 1		General Definitions
14 CFR 25			
Aerodynamics	Normal Flight		V speeds
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Flight Characteristics		Flight Limitations
PLT508			
14 CFR 91			
Regulations	14CFR Part 91		Equipment / Instrument / Certificate Requirement

PLT509[AC 00-6 Aviation Weather](#)

Windshear / Turbulence	Wake Turbulence	Turbulence factors
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[Aeronautical Information Manual](#)

Aerodynamics	Principles of Flight	Forces Acting on Wing
Windshear / Turbulence	Wake Turbulence	Turbulence factors

PLT510[AC 00-6 Aviation Weather](#)

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

Meteorology	Air Masses and Fronts	Dry line
Meteorology	Air Masses and Fronts	Fronts
Meteorology	Atmosphere	Pressure

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

Meteorology	Moisture	Change of State
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PLT514[AC 00-45 Aviation Weather Services](#)

Weather	Hazardous	Icing
Windshear / Turbulence	Clear Air Turbulence	Maximum Turbulence Potential Charts

[Aeronautical Information Manual](#)

Weather	Aeronautical Weather Reports	AWOS
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PLT515[Aeronautical Information Manual](#)

National Weather Service (NWS)	Functions	Aeronautical Weather Reports
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PLT516[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Winds
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PLT518[AC 00-54 Pilot Wind Shear Guide](#)

Windshear / Turbulence	Clear Air Turbulence	Windshear
Windshear / Turbulence	Microbursts	Loss of airspeed recovery
Windshear / Turbulence	Microbursts	Windshear
Windshear / Turbulence	Windshear	Characteristics

[AC 00-6 Aviation Weather](#)

Windshear / Turbulence	Clear Air Turbulence	Windshear
Windshear / Turbulence	Microbursts	Windshear

[Aeronautical Information Manual](#)

Windshear / Turbulence	Microbursts	Windshear
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PLT519[AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook](#)

Aerodynamics	Flight Controls	Secondary flight controls
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[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aerodynamics	Flight Controls	Secondary flight controls
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PLT523[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aerodynamics	Flight Characteristics	Normal Flight
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PLT524[Advanced Avionics Handbook, FAA-H-8083-6](#)

Navigation	Radio	Electronic Displays
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**Airline Transport Pilot—Helicopter—Part 135 Added Rating (ARH)
Sample Questions**

AIRLINE TRANSPORT PILOT—HELICOPTER—Part 135 Added Rating (ARH)

1. What corrective action can a pilot take to prevent a retreating blade stall at its onset?

- A—Reduce collective pitch and increase rotor RPM.
- B—Reduce collective pitch and decrease rotor RPM.
- C—Increase collective pitch and increase rotor RPM.

Answer: A.

Learning Statement: Recall rotor system-types/components/operating principles/characteristics.

2. (Refer to Appendix 2, Figures 30-34) Given loading conditions BL-6, what is the effect on lateral CG if the outside passengers from each row on the left side are deplaned? Deplaned passenger weights are 170 pounds each.

- A—CG shifts 1.5 inches right, out of limits.
- B—CG shifts 1.6 inches left, out of limits.
- C—CG shifts 1.4 inches right, within limits.

Answer: A.

Learning Statement: Calculate weight and balance.

3. (Refer to Appendix 2, Figure 41) Given the following, what is the single-engine climb or descent performance? Pressure altitude: 3,000 feet Temperature: (OAT) +35 °C

- A—150 feet/minimum descent.
- B—100 feet/minimum descent.
- C—350 feet/minimum climb.

Answer: B.

Learning Statement: Calculate aircraft performance-climb/descent.

4. (Refer to Appendix 2, Figure 37) What is the maximum gross weight for hovering in ground effect at 3,000 feet pressure altitude and +25 °C?

- A—16,600 pounds.
- B—17,300 pounds.
- C—14,700 pounds.

Answer: B.

Learning Statement: Interpret Hovering Ceiling Chart.

5. What is the reason for variations in geometric pitch along a propeller or rotor blade?

- A—It permits a relatively constant angle of incidence along its length when in cruising flight.
- B—It permits a relatively constant angle of attack along its length when in cruising flight.
- C—It prevents the portion of the blade near the hub or root from stalling during cruising flight.

Answer: B.

Learning Statement: Recall flight characteristics-structural/wing design.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE AIRLINE TRANSPORT PILOT— HELICOPTER—Part 135 Added Rating (ARH)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012		
Instrument Flying Handbook, FAA-H-8083-15		
Aircraft Performance	Computations	Airspeeds
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Computations	ETE
PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Lateral Shift
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Limitations
Weight and Balance	Center of Gravity	Shifting Weight
PLT022		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aeronautical Decision Making (ADM)	Situational Awareness
PLT029		
14 CFR 135		
Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT040		
Aeronautical Information Manual		
Regulations	14CFR Part 91	Airspace
PLT043		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Constant Pressure Analysis Charts
PLT048		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Charts	Hovering
PLT049		
U.S. Terminal Procedures		
Navigation	Avionics	Airborne equipment
Navigation	Radio	Instrument Approach
PLT058		
IFR Enroute Low Altitude Chart		
National Weather Service (NWS)	Functions	Aeronautical weather forecasts
Navigation	Flight Operations	IFR en route charts
PLT059		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Aviation Routine Weather Reports (METAR)
PLT067		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Inflight Aviation Weather Advisories
PLT072		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	TAF
PLT076		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Winds / Temperatures Aloft Forecasts
PLT080		
Aeronautical Information Manual		
Navigation	Radio	STAR
Instrument Procedures Handbook, FAA-H-8261-1		
Navigation	Flight Operations	Arrivals
PLT083		
Aeronautical Information Manual		
Air Traffic Control Procedures	Arrival	Missed Approach
PLT087		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	Holding

PLT090			
Aeronautical Information Manual			
Navigation	Radio		Non-precision approach
Navigation	Radio		VOR
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		CDI
Navigation	Radio		Instrument Approach
Navigation	Radio		VOR
PLT091			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		RMI (Radio Magnetic Indicator)
PLT094			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Helicopter Rotary Wings
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Helicopter Rotary Wings
PLT098			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Fitness for Flight
PLT099			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Physiological
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Human Factors	Aeromedical Factors		Scanning
PLT104			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aeronautical Decision Making (ADM)		Judgment	Automatic Decisions
PLT127			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT141			
Aeronautical Information Manual			
Navigation	Pilotage		Taxiway signs
PLT142			
Aeronautical Information Manual			
Air Traffic Control Procedures	En Route		Traffic Separation
PLT143			
Airport/Facility Directory			
Navigation	Flight Operations		Airport
PLT149			
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Regulations	14CFR Part 91		PIC authority
PLT161			
14 CFR 91			
Regulations	14CFR Part 91		Equipment / Instrument / Certificate Requirement
Aeronautical Information Manual			
Navigation	Airspace		Special airspace
PLT162			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Traffic alert / collision avoidance
Air Traffic Control Procedures	En Route		MOA
PLT171			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Pilot Procedures
PLT172			
Aeronautical Information Manual			
Air Traffic Control Procedures	Approach		Priority
Air Traffic Control Procedures	Arrival		Approach Control
Air Traffic Control Procedures	Arrival		Uncontrolled Field
PLT175			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Rotary Wing

PLT197			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Rotary Wing
PLT203			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Temperature
PLT205			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Alcohol
PLT208			
14 CFR 91			
Navigation	Flight Operations		Communications
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Flight Characteristics		Flight hazards
PLT217			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Normal Flight		Flight maneuvers
PLT237			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Ground Effect
PLT240			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Weight and Balance	Center of Gravity		Effect of Load Distribution
PLT242			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Lift
PLT248			
Aerodynamics for Naval Aviators			
Aerodynamics	Principles of Flight		Load Factor
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT263			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Icing
Aeronautical Information Manual			
Weather	Hazardous		Visibility restrictions
PLT268			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT274			
AC 00-6 Aviation Weather			
Meteorology	Icing		Freezing rain
PLT276			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		VOR
PLT280			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Flight Illusions
PLT282			
14 CFR 135			
Regulations	14CFR Part 135		Operator / Control / Manual(s) / Operation Specs
PLT288			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		TAF
PLT290			
AC 00-45 Aviation Weather Services			
National Weather Service (NWS)	Functions		Aeronautical Weather Reports
PLT292			
Aeronautical Information Manual			
Navigation	Radio		Helicopter procedures

PLT296			
Aeronautical Information Manual			
Navigation	Radio		Holding
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		ADF / NDB
PLT310			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Lift
PLT317			
Aeronautical Information Manual			
Windshear / Turbulence	Microbursts		Performance
PLT323			
Aeronautical Information Manual			
Air Traffic Control Procedures	Preflight		NOTAMS
PLT341			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Abnormal Flight		Flight hazards
Aerodynamics	Flight Characteristics		Flight hazards
PLT343			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Powerplant		Reciprocating
PLT348			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT354			
Aeronautical Information Manual			
Navigation	Radio		GPS
PLT355			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		HSI
Navigation	Radio		ILS
PLT357			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		Instrument Approach
PLT366			
49 CFR 830			
Regulations	NTSB Part 830		Definitions
Regulations	NTSB Part 830		Reports / Reporting
PLT370			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Clearances
Air Traffic Control Procedures	En Route		Speed Adjustments
PLT375			
14 CFR 135			
Regulations	14CFR Part 135 Subpart B		Records Keeping
PLT384			
14 CFR 135			
Regulations	14CFR Part 135 Subpart B		Flight / Crewmember Duties
PLT385			
14 CFR 135			
Regulations	14CFR Part 135		Cargo / Carry on Baggage
PLT389			
14 CFR 119			
Regulations	14CFR Part 119		Definitions
PLT392			
14 CFR 135			
Regulations	14CFR Part 135		Operator / Control / Manual(s) / Operation Specs
PLT405			
14 CFR 91			
Regulations	14CFR Part 91		Equipment / Instrument / Certificate Requirement
PLT406			
14 CFR 91			
Regulations	14CFR Part 91		Instrument Flight Rules

PLT409			
14 CFR 135			
Regulations	14CFR Part 135		Flight / Duty - Times / Limitations
14 CFR 61			
Regulations	14CFR Part 61		Limitations
PLT420			
14 CFR 91			
Regulations	14CFR Part 91		Instrument Flight Rules
PLT425			
14 CFR 135			
Regulations	14CFR Part 135 Subpart B		Records Keeping
PLT427			
14 CFR 61			
Regulations	14CFR Part 61		Limitations
PLT430			
14 CFR 91			
Regulations	14CFR Part 91		Flight Rules
PLT434			
Aeronautical Information Manual			
Air Traffic Control Procedures	Ground		Helicopter taxi modes
PLT438			
14 CFR 135			
Regulations	14CFR Part 135		Aircraft Equipment
Regulations	14CFR Part 135 Subpart B		Oxygen Requirements in Unpressurized Aircraft
PLT442			
14 CFR 135			
Regulations	14CFR Part 135 Subpart E		Operating Experience
14 CFR 61			
Regulations	14CFR Part 135 Subpart E		Operating Experience
Regulations	14CFR Part 61		Instrument Currency
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Regulations	14CFR Part 135 Subpart B		Flight / Crewmember Duties
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Regulations	14CFR Part 61		Limitations
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Regulations	14CFR Part 135		Testing
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14 CFR 135			
Regulations	14CFR Part 135		Aircraft Equipment
PLT458			
14 CFR 135			
Regulations	14CFR Part 135		Operator / Control / Manual(s) / Operation Specs
PLT459			
14 CFR 135			
Regulations	14CFR Part 135 Subpart D		Weather Requirements
PLT470			
Aerodynamics for Naval Aviators			
Aerodynamics	Principles of Flight		Helicopter Rotary Wings
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Flight Characteristics		Flight Limitations
Aerodynamics	Flight Characteristics		Rotorcraft Hazards
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
Aerodynamics	Principles of Flight		Hazards
Aerodynamics	Principles of Flight		Helicopter Rotary Wings
Aerodynamics	Principles of Flight		Lift
PLT471			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Helicopter Rotary Wings

PLT472 Rotorcraft Flying Handbook, FAA-H-8083-21		
Aerodynamics	Flight Characteristics	Abnormal Flight
PLT495 AC 00-6 Aviation Weather		
Meteorology	Hazardous	Arctic weather
PLT506 14 CFR 1		
Regulations	14CFR Part 1	General Definitions
PLT510 AC 00-6 Aviation Weather		
Meteorology	Airflow	Temperature
PLT511 AC 00-6 Aviation Weather		
Meteorology	Hazardous	Thunderstorms
PLT522 Rotorcraft Flying Handbook, FAA-H-8083-21		
Aerodynamics	Normal Flight	High winds / Turbulence

**Airline Transport Pilot—Helicopter—Part 135 (ATH)
Sample Questions**

AIRLINE TRANSPORT PILOT—HELICOPTER—Part 135 (ATH)

1. **What is the required flight visibility and distance from clouds if you are operating in Class E airspace at 9,500 feet with a VFR-on-top clearance during daylight hours?**

A—3 statute miles, 500 feet above, 1,000 feet below, and 2,000 feet horizontal.

B—5 statute miles, 500 feet above, 1,000 feet below, and 2,000 feet horizontal.

C—3 statute miles, 1,000 feet above, 500 feet below, and 2,000 feet horizontal.

Answer: C.

Learning Statement: Recall airspace requirements-visibility/cloud clearance.

2. **In addition to a two-way radio capable of communicating with ATC on appropriate frequencies, which equipment is the helicopter required to have to operate within Class B airspace? (Letter of agreement not applicable)**

A—DME, a VOR or TACAN receiver, and an appropriate transponder beacon.

B—an appropriate ATC transponder.

C—a VOR or TACAN receiver.

Answer: B.

Learning Statement: Recall regulations-equipment/instrument/certificate requirements.

3. **When must the pilot initiate a missed approach procedure from an ILS approach?**

A—At the DA/DH, if the visual references for the intended runway are not distinctly visible, or anytime thereafter.

B—When the time has expired after reaching the DA/DH and the runway environment is not clearly visible.

C—At the DA/DH when the runway is not clearly visible.

Answer: A.

Learning Statement: Recall regulations-instrument approach procedures.

4. **KFTW UA/OV DFW/TM 1645/FL100/TP PA 30/SK SCT031-TOP043/BKN060-TOP085/OVC097-TOPUNKN/WX FV00SM RA/TA 07**

This pilot report to Fort Worth (KFTW) indicates

A—The aircraft is in light rain.

B—The ceiling at KDFW is 6,000 feet.

C—The top of the ceiling is 4,300 feet.

Answer: B.

Learning Statement: Interpret information on a PIREP.

5. **Why are certain areas that start 3 nautical miles from the coastline of the U.S. and extend outward, classified as Warning Areas?**

A—To warn pilots of nonparticipating aircraft of a potential danger within the area.

B—To inform pilots of participating aircraft to maintain extreme vigilance while conducting flight within the area.

C—To warn all aircraft pilots that flying within the area may be extremely hazardous to aircraft and occupants.

Answer: A.

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

LIST OF REFERENCE MATERIALS SPECIFIC TO THE AIRLINE TRANSPORT PILOT—HELICOPTER—Part 135 (ATH)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT002 Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Cruise
PLT004 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25	Aircraft Performance	Engine Out Performance
Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Engine Out Performance
PLT008 Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Landing
PLT009 Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Power Check
	Aircraft Performance	Turbine Engine
PLT011 Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Takeoff
PLT012 Instrument Flying Handbook, FAA-H-8083-15	Aircraft Performance	Airspeeds
	Aircraft Performance	ETE
	Aircraft Performance	Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25	Aircraft Performance	ETE
	Aircraft Performance	Preflight Planning
PLT018 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25	Aerodynamics	Angle of Bank
PLT021 Aircraft Weight and Balance Handbook, FAA-H-8083-1	Weight and Balance	Lateral Shift
	Weight and Balance	Computations
	Weight and Balance	Limitations
	Weight and Balance	Shifting Weight
PLT022 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25	Aeronautical Decision Making (ADM)	Risk Management Electronic Displays
	Human Factors	Risk Management
	Human Factors	Situational Awareness
PLT023 AC 00-6 Aviation Weather	Navigation	Altimeter
PLT024 AC 00-6 Aviation Weather	Meteorology	Stability
PLT029 14 CFR 135	Regulations	Flight / Crewmember Duties
PLT040 Aeronautical Information Manual	Navigation	Class B
	Regulations	Airspace
PLT044 Aeronautical Information Manual	Air Traffic Control Procedures	Speeds
PLT048 Rotorcraft Flying Handbook, FAA-H-8083-21	Aircraft Performance	Hovering

PLT049			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		Instrument Approach
U.S. Terminal Procedures			
Navigation	Avionics		Airborne equipment
Navigation	Radio		Instrument Approach
Navigation	Radio		Non-precision approach
PLT058			
Airport/Facility Directory			
Navigation	Flight Operations		Airport
IFR Enroute Low Altitude Chart			
Air Traffic Control Procedures	Communications		ATC Communications
Navigation	Flight Operations		IFR en route charts
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		VOR
PLT059			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Aviation Routine Weather Reports (METAR)
Weather	Aeronautical Weather Reports		Aviation Weather Reports
PLT061			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		PIREPS
PLT066			
AC 00-45 Aviation Weather Services			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
Weather	Aeronautical Weather Forecasts		Convective Outlook Charts
PLT067			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		SIGMETS
PLT068			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Significant Weather Prognostic Charts
Weather	Aeronautical Weather Reports		Significant Weather Prognostic Charts
PLT072			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		TAF
PLT075			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT076			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Winds / Temperatures Aloft Forecasts
PLT078			
Airport/Facility Directory			
National Weather Service (NWS)	Functions		Weather outlets
PLT080			
Aeronautical Information Manual			
Navigation	Radio		STAR
Instrument Procedures Handbook, FAA-H-8261-1			
Navigation	Flight Operations		Arrivals
PLT083			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Instrument Approach Procedures
Air Traffic Control Procedures	Arrival		Missed Approach
Navigation	Radio		Instrument Approach
Airport/Facility Directory			
Navigation	Flight Operations		Airport
PLT087			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		DME

PLT090		
Aeronautical Information Manual		
Navigation	Radio	Non-precision approach
Navigation	Radio	VOR
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	CDI
Navigation	Radio	Instrument Approach
Navigation	Radio	VOR
U.S. Terminal Procedures		
Navigation	Flight Operations	Approach chart
PLT091		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	RMI (Radio Magnetic Indicator)
PLT093		
14 CFR 135		
Regulations	14CFR Part 135	Aircraft Equipment
PLT094		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Helicopter Rotary Wings
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aerodynamics	Principles of Flight	Helicopter Rotary Wings
PLT097		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Physiological
PLT098		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Fitness for Flight
PLT099		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Physiological
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aeromedical Factors	Scanning
PLT104		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aeronautical Decision Making (ADM)	Problem Detection
Risk Management Handbook		
Aeronautical Decision Making (ADM)		Risk Management Hazardous Phase of Flight
PLT105		
AC 00-6 Aviation Weather		
Meteorology	Clouds	Radar
PLT127		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Atmospheric Effects	Density Altitude
PLT141		
Aeronautical Information Manual		
Navigation	Flight Operations	Airport
Navigation	Flight Operations	Heliport
Navigation	Pilotage	Taxiway signs
PLT142		
Aeronautical Information Manual		
Air Traffic Control Procedures	En Route	Traffic Separation
PLT145		
Aeronautical Information Manual		
Navigation	Flight Operations	Runway
PLT147		
Aeronautical Information Manual		
Navigation	Flight Operations	Runway

PLT161			
14 CFR 91			
Navigation	Airspace		Class B
Regulations	14CFR Part 91		Airspace
Regulations	14CFR Part 91		Equipment / Instrument / Certificate Requirement
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Airspace Requirements
Navigation	Airspace		Special airspace
PLT162			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Traffic alert / collision avoidance
Air Traffic Control Procedures	En Route		MOA
Air Traffic Control Procedures	Services		Outer Class C
PLT164			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Lift
PLT166			
Aeronautical Information Manual			
Navigation	Instrumentation		Altimeter
PLT171			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Pilot Procedures
Air Traffic Control Procedures	En Route		Reporting
PLT172			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Approach Control
Air Traffic Control Procedures	Arrival		Uncontrolled Field
Air Traffic Control Procedures	Services		Class C
PLT173			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Pressure
Meteorology	Atmosphere		Stability
PLT175			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Rotary Wing
PLT192			
AC 00-45 Aviation Weather Services			
Meteorology	Clouds		Cumuliform
AC 00-6 Aviation Weather			
Meteorology	Clouds		Moisture/cloud formation/precipitation
PLT197			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Rotary Wing
PLT203			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Temperature
PLT205			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Alcohol
PLT208			
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Navigation	Flight Operations		Communications
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Air Traffic Control Procedures	Communications		Pilot Procedures
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Flight Characteristics		Flight hazards
PLT217			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Normal Flight		Flight maneuvers
PLT224			
Aeronautical Information Manual			
Air Traffic Control Procedures	Preflight		Flight plan

PLT225			
Aeronautical Information Manual			
Air Traffic Control Procedures	Preflight		Flight plan
PLT226			
AC 00-6 Aviation Weather			
Meteorology	Clouds		Fog
PLT237			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Ground Effect
PLT240			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Weight and Balance	Center of Gravity		Effect of Load Distribution
PLT242			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Lift
PLT248			
Aerodynamics for Naval Aviators			
Aerodynamics	Principles of Flight		Load Factor
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT263			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Arctic weather
Meteorology	Hazardous		Icing
Aeronautical Information Manual			
Weather	Hazardous		Visibility restrictions
PLT268			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT274			
AC 00-6 Aviation Weather			
Meteorology	Hazardous		Icing
Meteorology	Icing		Structural icing
AC 91-51 Effect of Icing on Aircraft Control and Airplane Deice and Anti-Ice Systems			
Meteorology	Hazardous		Icing
AC 91-74 Pilot Guide: Flight in Icing Conditions			
Meteorology	Hazardous		Icing
PLT277			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		ILS
PLT280			
Aeronautical Information Manual			
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Human Factors	Aeromedical Factors		Spatial Disorientation
PLT282			
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Regulations	14CFR Part 135		Operator / Control / Manual(s) / Operation Specs
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PLT288			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		TAF
PLT289			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT290			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		SIGMETS
PLT292			
Aeronautical Information Manual			
Navigation	Radio		Helicopter procedures

PLT294			
AC 00-45 Aviation Weather Services			
National Weather Service (NWS)	Functions		Aeronautical weather forecasts
PLT296			
Aeronautical Information Manual			
Navigation	Radio		Holding
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		ADF / NDB
Navigation	Radio		Holding
PLT301			
AC 00-6 Aviation Weather			
Meteorology	Atmosphere		Temperature
PLT310			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Lift
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Principles of Flight		Load Factor
PLT316			
AC 00-45 Aviation Weather Services			
Weather	Hazardous		Thunderstorms
PLT317			
AC 00-54 Pilot Wind Shear Guide			
Windshear / Turbulence	Microbursts		Windshear
Aeronautical Information Manual			
Windshear / Turbulence	Microbursts		Performance
PLT318			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Low fuel
Air Traffic Control Procedures	Communications		Pilot Procedures
PLT323			
Aeronautical Information Manual			
Air Traffic Control Procedures	Preflight		NOTAMS
Navigation	Flight Operations		Preflight planning/calculations
PLT330			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Physiological
PLT334			
Aeronautical Information Manual			
Human Factors	Aeromedical Factors		Flight Illusions
PLT337			
AC 91-43 Unreliable Airspeed Indication			
Navigation	Instrumentation		Airspeed indicator
PLT341			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aerodynamics	Flight Characteristics		Flight hazards
PLT343			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Powerplant		Reciprocating
PLT348			
Airplane Flying Handbook, FAA-H-8083-3A			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT354			
Aeronautical Information Manual			
Navigation	Flight Operations		Preflight planning/calculations
Navigation	Radio		GPS
PLT355			
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		HSI
Navigation	Radio		ILS

PLT356 Aeronautical Information Manual Navigation	Radio	ILS
PLT358 Aeronautical Information Manual Navigation	Radio	ILS
PLT361 Instrument Flying Handbook, FAA-H-8083-15 Navigation	Radio	SDF
PLT366 49 CFR 830 Regulations	NTSB Part 830	Reports / Reporting
PLT370 Aeronautical Information Manual Air Traffic Control Procedures	Communications	ATC Communications
Air Traffic Control Procedures	Departure	Clearances
PLT375 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping
PLT380 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT382 U.S. Terminal Procedures Navigation	Radio	VOR
PLT384 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT385 14 CFR 135 Regulations	14CFR Part 135	Cargo / Carry on Baggage
PLT389 14 CFR 119 Regulations	14CFR Part 119	Definitions
Aeronautical Information Manual Navigation	Flight Operations	Approach
PLT390 Aeronautical Information Manual Air Traffic Control Procedures	En Route	Reporting
PLT392 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT400 14 CFR 121/135 Regulations	14CFR Part 135 Subpart B	Records Keeping
14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping
PLT404 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
PLT405 14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
Regulations	14CFR Part 91	Flight Rules
PLT406 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT409 14 CFR 135 Regulations	14CFR Part 135	Flight / Duty - Times / Limitations
14 CFR 61 Regulations	14CFR Part 61	Instrument Currency
Regulations	14CFR Part 61	Limitations

PLT413 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Fuel Requirements
PLT420 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Weather Requirements
14 CFR 91 Regulations	14CFR Part 91	Instrument Flight Rules
PLT424 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT425 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping
PLT427 14 CFR 61 Regulations	14CFR Part 61	Limitations
PLT428 14 CFR 135 Regulations	14CFR Part 135	MEL/CDL
PLT430 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
Regulations	14CFR Part 91	Instrument Flight Rules
PLT434 Aeronautical Information Manual Air Traffic Control Procedures	Ground	Helicopter taxi modes
PLT435 Aeronautical Information Manual Air Traffic Control Procedures	Communications	Pilot Procedures
PLT438 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135 Subpart B	Oxygen Requirements in Unpressurized Aircraft
PLT442 14 CFR 135 Regulations	14CFR Part 135	Crew Requirements
Regulations	14CFR Part 135	Testing
Regulations	14CFR Part 135 Subpart E	Operating Experience
14 CFR 61 Regulations	14CFR Part 135 Subpart E	Operating Experience
Regulations	14CFR Part 61	Instrument Currency
PLT443 14 CFR 61 Regulations	14CFR Part 61	Drug / Alcohol Impairment
Regulations	14CFR Part 61	Type Rating
PLT444 14 CFR 135 Regulations	14CFR Part 135	Emergency / Operations / Authority / Reports
Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT447 14 CFR 61 Regulations	14CFR Part 61	Limitations
PLT449 14 CFR 135 Regulations	14CFR Part 135	Testing
PLT454 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment

PLT458 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT459 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
Regulations	14CFR Part 135 Subpart D	Weather Requirements
14 CFR 91 Regulations	14CFR Part 91	Instrument Flight Rules
PLT463 14 CFR 135 Regulations	14CFR Part 135 Subpart E	Drug Testing
14 CFR 61 Regulations	14CFR Part 61	Limitations
14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT470 Aerodynamics for Naval Aviators Aerodynamics	Principles of Flight	Helicopter Rotary Wings
Rotorcraft Flying Handbook, FAA-H-8083-21 Aerodynamics	Flight Characteristics	Flight Limitations
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Forces Acting on Rotary Wing
Aerodynamics	Principles of Flight	Hazards
Aerodynamics	Principles of Flight	Helicopter Rotary Wings
Aerodynamics	Principles of Flight	Lift
PLT471 Rotorcraft Flying Handbook, FAA-H-8083-21 Aerodynamics	Principles of Flight	Helicopter Rotary Wings
PLT472 Rotorcraft Flying Handbook, FAA-H-8083-21 Aerodynamics	Flight Characteristics	Abnormal Flight
PLT475 AC 00-6 Aviation Weather Meteorology	Hazardous	Definitions
Meteorology	Hazardous	Thunderstorms
PLT492 AC 00-6 Aviation Weather Meteorology	Atmosphere	Stability
PLT493 AC 00-6 Aviation Weather Meteorology	Icing	Frost
PLT495 AC 00-24 Thunderstorms Meteorology	Hazardous	Thunderstorms
AC 00-6 Aviation Weather Meteorology	Hazardous	Thunderstorms
PLT499 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Performance	Normal Flight
Aerodynamics	Powerplant	Turbine
PLT506 14 CFR 1 Regulations	14CFR Part 1	General Definitions
PLT508 14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT509 Aeronautical Information Manual Windshear / Turbulence	Wake Turbulence	Turbulence factors

PLT510[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Winds
Meteorology	Airflow	Temperature
Meteorology	Atmosphere	Haze

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

Meteorology	Air Masses and Fronts	Dry line
Meteorology	Air Masses and Fronts	Stationary front
Meteorology	Atmosphere	Pressure
Meteorology	Hazardous	Thunderstorms

PLT514[AC 00-45 Aviation Weather Services](#)

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

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

Meteorology	Air Masses and Fronts	Winds
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PLT517[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Winds
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PLT518[AC 00-54 Pilot Wind Shear Guide](#)

Windshear / Turbulence	Clear Air Turbulence	Windshear
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[AC 00-6 Aviation Weather](#)

Windshear / Turbulence	Microbursts	Windshear
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[Aeronautical Information Manual](#)

Windshear / Turbulence	Windshear	LLWAS
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PLT522[Rotorcraft Flying Handbook, FAA-H-8083-21](#)

Aerodynamics	Normal Flight	High winds / Turbulence
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PLT524[Advanced Avionics Handbook, FAA-H-8083-6](#)

Navigation	Radio	Electronic Displays
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**Airline Transport Pilot—Airplane—Part 135 Added Rating (ARA)
Sample Questions**

AIRLINE TRANSPORT PILOT—AIRPLANE—Part 135-ADDED RATING (ARA)

1. How does V_s (KTAS) speed vary with altitude?

- A—Remains the same at all altitudes.
- B—Varies directly with altitude.
- C—Varies inversely with altitude.

Answer: B.

Learning Statement: Recall aircraft performance-atmospheric effects.

2. How can turbulent air cause an increase in stalling speed of an airfoil?

- A—A decrease in angle of attack.
- B—An abrupt change in relative wind.
- C—Sudden decrease in load factor.

Answer: B.

Learning Statement: Recall forces acting on aircraft-stalls/spins.

3. What is the effect on total drag of an aircraft if the airspeed decreases in level flight below that speed for maximum L/D?

- A—Drag increases because of increased parasite drag.
- B—Drag decreases because of lower induced drag.
- C—Drag increases because of increased induced drag.

Answer: C.

Learning Statement: Recall L/D ratio.

4. In a light, twin-engine airplane with one engine inoperative, when is it acceptable to allow the ball of a slip-skid indicator to be deflected outside the reference lines?

- A—When practicing imminent stalls in a banked attitude of over 60°.
- B—While maneuvering at minimum controllable airspeed or less to avoid overbanking.
- C—When operating at any airspeed of V_{mc} or greater with only enough deflection to zero the sideslip.

Answer: C.

Learning Statement: Recall flight operations multi-engine-engine inoperative procedures.

5. If either pilot of an air carrier airplane leaves the duty station while flying at FL 410, the other pilot

- A—must have a quick-donning type oxygen mask available.
- B—and the flight engineer shall put on their oxygen masks and breathe oxygen.
- C—shall put on the oxygen mask and breathe oxygen.

Answer: C.

Learning Statement: Recall regulations-pilot/crew duties and responsibilities.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE AIRLINE TRANSPORT PILOT—AIRPLANE—Part 135-ADDED RATING (ARA)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT002 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Airspeeds
PLT004 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Descent
U.S. Terminal Procedures Aircraft Performance	Charts	Climb
PLT008 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Landing
PLT011 14 CFR 135 Regulations	14CFR Part 135 Subpart I	Performance Planning / General
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Takeoff
PLT012 Instrument Flying Handbook, FAA-H-8083-15 Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Airspeeds
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Aircraft Performance	Computations	Preflight Planning
PLT015 Aerodynamics for Naval Aviators Aerodynamics	Performance	Normal Flight
PLT021 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Shifting Weight
PLT022 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aeronautical Decision Making (ADM)		Risk Management Electronic Displays
PLT029 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT031 AC 00-6 Aviation Weather Meteorology	Air Masses and Fronts	Winds
PLT032 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Airspeed	Mach
PLT040 Aeronautical Information Manual Regulations	14CFR Part 91	Airspace
PLT042 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Constant Pressure Analysis Charts
PLT044 Aeronautical Information Manual Air Traffic Control Procedures	Departure	Takeoff

PLT049			
14 CFR 61			
Navigation	Flight Operations		Approach chart
AC 00-45 Aviation Weather Services			
Navigation	Flight Operations		Approach chart
Aeronautical Information Manual			
Navigation	Radio		ILS
Instrument Flying Handbook, FAA-H-8083-15			
Navigation	Radio		Intersections
U.S. Terminal Procedures			
Navigation	Avionics		Airborne equipment
Navigation	Flight Operations		Approach
PLT052			
14 CFR 91			
Air Traffic Control Procedures	Communications		Pilot Procedures
Regulations	14CFR Part 91		Instrument Flight Rules
14 CFR 97			
Navigation	Radio		Standard departures
U.S. Terminal Procedures			
Air Traffic Control Procedures	Communications		Pilot Procedures
Instrument Procedures	Instrument Departures		SID
PLT055			
IFR Enroute High Altitude Chart			
Navigation	Flight Operations		IFR en route charts
PLT058			
Aeronautical Information Manual			
Navigation	Radio		VOR
Airport/Facility Directory			
Navigation	Flight Operations		Airport
IFR Enroute High Altitude Chart			
Air Traffic Control Procedures	Communications		ATC Communications
PLT059			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Aviation Routine Weather Reports (METAR)
Weather	Aeronautical Weather Reports		Aviation Selected Special Report (SPECI)
PLT065			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Charts		Engine Out Performance
PLT072			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		TAF
PLT073			
Airport/Facility Directory			
Air Traffic Control Procedures	En Route		Tower en route
PLT077			
U.S. Terminal Procedures			
Navigation	Flight Operations		Airport
PLT078			
Airport/Facility Directory			
Air Traffic Control Procedures	Communications		Pilot Procedures
Navigation	Flight Operations		Communications
Navigation	Flight Operations		Runway
PLT080			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Approach Control
Air Traffic Control Procedures	Communications		Clearances
Navigation	Radio		STAR
PLT082			
U.S. Terminal Procedures			
Regulations	14CFR Parts 121/135		Flight Planning

PLT083		
Aeronautical Information Manual		
Air Traffic Control Procedures	Arrival	Instrument Approach Procedures
U.S. Terminal Procedures		
Navigation	Flight Operations	Approach chart
Navigation	Radio	ILS
PLT090		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	CDI
Navigation	Radio	VOR
PLT091		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	RMI (Radio Magnetic Indicator)
PLT098		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Fitness for Flight
PLT104		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aeronautical Decision Making (ADM)	Problem Detection
PLT105		
AC 00-24 Thunderstorms		
Meteorology	Hazardous	Thunderstorms
PLT121		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Limitations
PLT124		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	Instrumentation Error
PLT128		
AC 91-74 Pilot Guide: Flight in Icing Conditions		
Meteorology	Hazardous	Icing
PLT141		
Aeronautical Information Manual		
Navigation	Pilotage	Taxiway signs
PLT161		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Airspace Requirements
PLT163		
14 CFR 91		
Regulations	14CFR Part 91	Flight Rules
PLT166		
AC 00-6 Aviation Weather		
Navigation	Instrumentation	Altimeter
PLT172		
Aeronautical Information Manual		
Air Traffic Control Procedures	Services	Class C
Air Traffic Control Procedures	Services	IFR flight plans
Instrument Procedures Handbook, FAA-H-8261-1		
Air Traffic Control Procedures	Approach	PRM
PLT192		
AC 00-6 Aviation Weather		
Meteorology	Clouds	Turbulence
PLT195		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Traffic alert / collision avoidance
PLT214		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft

PLT223		
Airplane Flying Handbook, FAA-H-8083-3A		
Aerodynamics	Airspeed	Vy
Aerodynamics	Performance	Abnormal Flight
Aerodynamics	Principles of Flight	Drag
Aircraft Performance	Limitations	Vmc
PLT226		
AC 00-6 Aviation Weather		
Meteorology	Clouds	Fog
PLT235		
Airplane Flying Handbook, FAA-H-8083-3A		
Aerodynamics	Performance	Abnormal Flight
PLT240		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weight and Balance	Center of Gravity	Effect of Load Distribution
Weight and Balance	Center of Gravity	Stability
PLT242		
Aerodynamics for Naval Aviators		
Aerodynamics	Stall / Spins	Angle of Attack
PLT248		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT263		
AC 00-6 Aviation Weather		
Meteorology	Hazardous	Icing
Windshear / Turbulence	Clear Air Turbulence	High altitude
PLT266		
Aerodynamics for Naval Aviators		
Aerodynamics	Principles of Flight	Lift
PLT276		
Instrument Flying Handbook, FAA-H-8083-15		
Navigation	Radio	VOR
PLT277		
Aeronautical Information Manual		
Navigation	Radio	ILS
PLT280		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Flight Illusions
PLT282		
14 CFR 135		
Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT296		
Aeronautical Information Manual		
Navigation	Radio	Instrument Approach
PLT317		
AC 00-54 Pilot Wind Shear Guide		
Windshear / Turbulence	Microbursts	Performance
Aeronautical Information Manual		
Windshear / Turbulence	Microbursts	Performance
PLT318		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Pilot Procedures
PLT329		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Physiological
PLT334		
Aeronautical Information Manual		
Human Factors	Aeromedical Factors	Flight Illusions
PLT337		
AC 91-43 Unreliable Airspeed Indication		
Navigation	Instrumentation	Airspeed indicator

PLT346 AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook Aerodynamics	Flight Controls	Secondary flight controls
PLT354 Aeronautical Information Manual Navigation	Radio	GPS
U.S. Terminal Procedures Navigation	Radio	Non-precision approach
PLT355 Instrument Flying Handbook, FAA-H-8083-15 Navigation	Radio	HSI
Navigation	Radio	ILS
PLT356 Aeronautical Information Manual Navigation	Radio	ILS
PLT366 49 CFR 830 Regulations	NTSB Part 830	Definitions
Regulations	NTSB Part 830	Reports / Reporting
PLT367 14 CFR 121/135 Regulations	14CFR Parts 121/135	Aircraft / Equipment
PLT370 Aeronautical Information Manual Air Traffic Control Procedures	Departure	Clearances
PLT384 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
PLT385 14 CFR 135 Regulations	14CFR Part 135	Cargo / Carry on Baggage
PLT389 14 CFR 119 Regulations	14CFR Part 119	Definitions
PLT391 14 CFR 91 Regulations	14CFR Part 91	Instrument Flight Rules
PLT392 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT393 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT395 14 CFR 1 Regulations	14CFR Part 1	General Definitions
PLT400 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Records Keeping
PLT405 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT407 14 CFR 135 Regulations	14CFR Part 135	Training
Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT409 14 CFR 61 Regulations	14CFR Part 61	Limitations
PLT424 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment

PLT428 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
PLT429 14 CFR 91 Regulations	14CFR Part 91	Equipment / Instrument / Certificate Requirement
PLT437 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
Regulations	14CFR Part 135	Performance Requirements
PLT438 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
PLT442 14 CFR 135 Regulations	14CFR Part 135 Subpart E	Operating Experience
PLT443 14 CFR 135 Regulations	14CFR Part 135 Subpart B	Flight / Crewmember Duties
Regulations	14CFR Part 135 Subpart E	Qualifications
14 CFR 61 Regulations	14CFR Part 61	Drug / Alcohol Impairment
PLT444 14 CFR 121/135 Regulations	14CFR Parts 121/135	Persons Not Passengers
PLT449 14 CFR 135 Regulations	14CFR Part 135	Testing
PLT456 14 CFR 135 Regulations	14CFR Part 135 Subpart I	Required Landing Planning
PLT459 14 CFR 135 Regulations	14CFR Part 135	Operator / Control / Manual(s) / Operation Specs
Regulations	14CFR Part 135 Subpart D	Weather Requirements
PLT462 14 CFR 135 Regulations	14CFR Part 135	Aircraft Equipment
PLT463 14 CFR 61 Regulations	14CFR Part 61	Limitations
PLT466 Airplane Flying Handbook, FAA-H-8083-3A Weight and Balance	Center of Gravity	Limitations
PLT467 14 CFR 91 Regulations	14CFR Part 91	Flight Rules
PLT477 Aerodynamics for Naval Aviators Aerodynamics	Stall / Spins	Angle of Attack
Aerodynamics	Stall / Spins	Stall Warning Devices
PLT493 14 CFR 135 Regulations	14CFR Part 135 Subpart D	Icing Conditions - Deicing
AC 00-6 Aviation Weather Meteorology	Icing	Frost
PLT506 14 CFR 1 Regulations	14CFR Part 1	General Definitions
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Flight Characteristics	Flight Limitations

PLT511

[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Dry line
Meteorology	Air Masses and Fronts	Fronts

PLT512

[AC 00-6 Aviation Weather](#)

Meteorology	Moisture	Change of State
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PLT515

[Aeronautical Information Manual](#)

National Weather Service (NWS)	Functions	Aeronautical Weather Reports
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PLT518

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

Windshear / Turbulence	Clear Air Turbulence	Windshear
Windshear / Turbulence	Microbursts	Loss of airspeed recovery

PLT523

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

Aerodynamics	Flight Characteristics	Normal Flight
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**Aircraft Dispatcher (ADX)
Sample Questions**

AIRCRAFT DISPATCHER (ADX)

1. (Refer to Appendix 2, Figures 51-52) What is the total time from starting to the alternate through completing the approach for Operating Conditions L-1?

- A—44 minutes.
- B—30 minutes.
- C—29 minutes.

Answer: A.

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

2. (Refer to Appendix 2, Figure 40) What is the climb performance with both engines operating?

Pressure altitude: 9,500 feet Temperature: (OAT) -5 °C Heater: ON

- A—600 feet/minute.
- B—925 feet/minute.
- C—335 feet/minute.

Answer: A.

Learning Statement: Calculate aircraft performance-climb/descent.

3. (Refer to Appendix 2, Figures 61-62) What is the trip time for Operating Conditions X-1?

- A—4 hours, 15 minutes.
- B—4 hours, 5 minutes.
- C—4 hours.

Answer: C.

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

4. An airport may not be qualified for alternate use if

- A—the airport has AWOS-3 weather reporting.
- B—the airport is located next to a restricted or prohibited area.
- C—the NAVAIDS used for the final approach are unmonitored.

Answer: C.

Learning Statement: Recall regulations-alternate airport requirements.

5. Pilots are not authorized to fly a published RNAV or RNP procedure unless it is retrievable by the procedure name from

- A—the aircraft navigation database, or manually loaded with each individual waypoint in the correct sequence.
- B—the aircraft navigation database, or manually loaded with each individual waypoint and verified by the pilot(s).
- C—the aircraft navigation database.

Answer: C.

Learning Statement: Recall instrument/navigation system checks/inspections-limits/tuning/identifying/logging.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE AIRCRAFT DISPATCHER (ADX)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT004		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Engine Out Performance
U.S. Terminal Procedures		
Aircraft Performance	Charts	Climb
PLT007		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Holding
Aircraft Performance	Charts	Takeoff
PLT008		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Landing
PLT010		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Aircraft Performance	Charts	Takeoff
PLT011		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Takeoff
PLT012		
Instrument Flying Handbook, FAA-H-8083-15		
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Navigation	Flight Operations	Preflight planning/calculations
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Alternate
Aircraft Performance	Charts	Climb
Aircraft Performance	Charts	Cruise
Aircraft Performance	Charts	Holding
Aircraft Performance	Computations	ETE
Aircraft Performance	Computations	Fuel
Aircraft Performance	Computations	Mach
Aircraft Performance	Computations	Preflight Planning
Navigation	Radio	VOR
PLT015		
Aerodynamics for Naval Aviators		
Aerodynamics	Performance	Normal Flight
Aircraft Performance	Computations	Specific Range: NAM/1000# Fuel
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Computations	Specific Range: NAM/1000# Fuel
Aircraft Performance	Limitations	Best Range
PLT020		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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Navigation	Flight Operations		Approach chart
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Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
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IFR Enroute Low Altitude Chart			
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Instrument Flying Handbook, FAA-H-8083-15			
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Instrument Procedures Handbook, FAA-H-8261-1			
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AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Reports		Aviation Routine Weather Reports (METAR)
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Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
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Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
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PLT263[AC 00-30 Atmospheric Turbulence Avoidance](#)

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

Windshear / Turbulence	Clear Air Turbulence	Windshear
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[AC 00-6 Aviation Weather](#)

Meteorology	Hazardous	Icing
Windshear / Turbulence	Clear Air Turbulence	Jetstream

[Aeronautical Information Manual](#)

Windshear / Turbulence	Clear Air Turbulence	Reports
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PLT266[Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25](#)

Aerodynamics	Flight Characteristics	Normal Flight
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PLT274[AC 00-6 Aviation Weather](#)

Meteorology	Hazardous	Icing
Meteorology	Icing	Freezing rain
Meteorology	Icing	Structural icing

PLT279[14 CFR 121](#)

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PLT280[Aeronautical Information Manual](#)

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

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PLT287[AC 00-45 Aviation Weather Services](#)

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

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

National Weather Service (NWS)	Functions	Aeronautical weather forecasts
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PLT292[Aeronautical Information Manual](#)

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PLT294[AC 00-45 Aviation Weather Services](#)

National Weather Service (NWS)	Functions	Aeronautical weather forecasts
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PLT296[Aeronautical Information Manual](#)

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

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

Meteorology	Air Masses and Fronts	Occluded front
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PLT305[AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook](#)

Aerodynamics	Flight Controls	Secondary flight controls
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AC 00-45 Aviation Weather Services			
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AC 91-43 Unreliable Airspeed Indication			
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PLT444 14 CFR 121 Regulations	14CFR Part 121	Emergency Authority / Actions / Reports
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Aerodynamics	Flight Controls		Servos
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AC 00-6 Aviation Weather			
Meteorology	Hazardous		Definitions
Meteorology	Hazardous		Thunderstorms
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14 CFR 121			
Regulations	14CFR Part 121		Icing Conditions
AC 00-6 Aviation Weather			
Meteorology	Icing		Frost
AC 135-17 Pilot Guide-Small Aircraft Ground Deicing			
Aerodynamics	Principles of Flight		Hazards
AC 20-117 Hazards Following Ground Deicing and Ground Operations in Conditions Conducive to Aircraft			
Aerodynamics	Principles of Flight		Hazards
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AC 00-6 Aviation Weather			
Meteorology	Hazardous		Thunderstorms
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AC 00-30 Atmospheric Turbulence Avoidance			
Windshear / Turbulence	Clear Air Turbulence		Windshear
AC 00-6 Aviation Weather			
Meteorology	High Altitude		Jet Stream
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14 CFR 1			
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AC 00-6 Aviation Weather			
Meteorology	Air Masses and Fronts		Dry line
Meteorology	Air Masses and Fronts		Fronts
Meteorology	Atmosphere		Pressure

PLT514

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

National Weather Service (NWS)	Functions	Aeronautical weather forecasts
Windshear / Turbulence	Clear Air Turbulence	Maximum Turbulence Potential Charts

PLT515

[Aeronautical Information Manual](#)

National Weather Service (NWS)	Functions	Aeronautical weather forecasts
National Weather Service (NWS)	Functions	Aeronautical Weather Reports

PLT516

[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Winds
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PLT517

[AC 00-6 Aviation Weather](#)

Meteorology	Air Masses and Fronts	Fronts
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PLT518

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

Windshear / Turbulence	Clear Air Turbulence	Windshear
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[AC 00-6 Aviation Weather](#)

Windshear / Turbulence	Clear Air Turbulence	Windshear
Windshear / Turbulence	Windshear	Characteristics

**Flight Navigator (FNX)
Sample Questions**

FLIGHT NAVIGATOR (FNX)

1. Assuring that appropriate aeronautical charts are aboard an aircraft is the responsibility of the

- A—flight navigator.
- B—pilot-in-command.
- C—aircraft dispatcher.

Answer: B.

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

2. Where is a list maintained for routes that require special navigation equipment?

- A—International Flight Information Manual.
- B—Air Carrier's Operations Specifications.
- C—Airplane Flight Manual.

Answer: B.

Learning Statement: Recall regulations-commercial operation requirements/conditions/OpSpecs.

3. The tropopause is generally found when the free air temperatures are

- A—between -55° and -65°C .
- B—between -40° and -55°C .
- C—colder than -60°C .

Answer: A.

Learning Statement: Recall Jet Stream-types/characteristics.

4. How is Doppler groundspeed determined?

- A—By comparing the shift between front and rear beams.
- B—By the automatic astro-tracker display component.
- C—By the radar unit's accelerometer component.

Answer: A.

Learning Statement: Recall instrument/navigation system checks/inspections-limits/tuning/identifying/logging.

5. (Refer to Appendix 2, Figure 222) The symbol represents

- A—an air vector.
- B—a DR position.
- C—a wind vector.

Answer: B.

Learning Statement: Recall symbols-chart/navigation.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT NAVIGATOR (FNX)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012		
<u>Air Force Pamphlet 11-216, Air Navigation</u>		
Aircraft Performance	Computations	ETA
Navigation	Celestial	Distance
Navigation	Celestial	Magnetic Heading
Navigation	Celestial	True Course
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Charts and Maps / Mapping
<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>		
Navigation	Celestial	True Bearing
PLT042		
<u>AC 00-45 Aviation Weather Services</u>		
Weather	Aeronautical Weather Reports	Constant Pressure Analysis Charts
<u>Air Force Pamphlet 11-216, Air Navigation</u>		
Meteorology	Air Masses and Fronts	Fronts
PLT043		
<u>AC 00-45 Aviation Weather Services</u>		
Weather	Aeronautical Weather Reports	Constant Pressure Analysis Charts
PLT076		
<u>AC 00-45 Aviation Weather Services</u>		
Weather	Aeronautical Weather Forecasts	Winds / Temperatures Aloft Forecasts
PLT123		
<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>		
Aircraft Performance	Computations	Airspeeds
PLT132		
<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>		
Navigation	Instrumentation	Airspeed indicator
PLT167		
<u>AC 00-6 Aviation Weather</u>		
Navigation	Instrumentation	Altimeter
PLT279		
<u>Aeronautical Information Manual</u>		
Navigation	Avionics	Airborne equipment
<u>Air Force Pamphlet 11-216, Air Navigation</u>		
Navigation	Celestial	Schuler-Tuned Inertial System
Navigation	Inertial	System / Components
PLT300		
<u>Air Force Pamphlet 11-216, Air Navigation</u>		
Navigation	Radio	Doppler

PLT319

Air Force Pamphlet 11-216, Air Navigation

Navigation	Celestial	Celestial Sphere
Navigation	Celestial	Charts
Navigation	Celestial	Convergence
Navigation	Celestial	Corrections
Navigation	Celestial	Distance
Navigation	Celestial	Fix
Navigation	Celestial	Intercept Method
Navigation	Celestial	Isogriv
Navigation	Celestial	LHA
Navigation	Celestial	Navigational Bodies
Navigation	Celestial	Parallax Correction
Navigation	Celestial	Refraction
Navigation	Celestial	Sight
Navigation	Celestial	Tables
Navigation	Celestial	Time Designations
Navigation	Celestial	Time of Transit
Navigation	Dead Reckoning	Charts and Maps / Mapping
Navigation	Pilotage	Map reading/plotting

PLT335

Air Force Pamphlet 11-216, Air Navigation

Navigation	Celestial	Track
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PLT386

[14 CFR 63](#)

Regulations	14CFR Part 63	Experience Requirements
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PLT389

[14 CFR 121](#)

Regulations	14CFR Part 121 - Subpart E	Operations Specifications
Regulations	14CFR Part 121 - Subpart M	Navigator / Special Equipment

PLT393

[14 CFR 91](#)

Regulations	14CFR Part 91	Flight Rules
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PLT409

[14 CFR 121](#)

Regulations	14CFR Part 121	Flight Time / Duty / Rest / Requirements
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PLT427

[14 CFR 121](#)

Regulations	14CFR Part 121 - Subpart M	Navigator Certificate and Medical Requirements
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PLT443

[14 CFR 121](#)

Regulations	14CFR Part 121 - Subpart K	Navigator Requirement
Regulations	14CFR Part 121 - Subpart M	Navigator / Special Equipment

PLT444

[14 CFR 121](#)

Regulations	14CFR Part 121	Crew Equipment / Publications / Checklists
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PLT450

[14 CFR 63](#)

Regulations	14CFR Part 63	Experience Requirements
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PLT484

Air Force Pamphlet 11-216, Air Navigation

Navigation	Dead Reckoning	Plotting
Navigation	Dead Reckoning	Standard Symbols