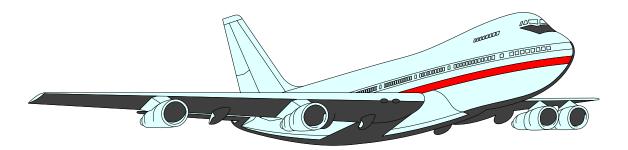
FAA-G-8082-9F

FLIGHT ENGINEER KNOWLEDGE TEST GUIDE



August 2012



INTRODUCTION

FAA-G-8082-5F, Flight Engineer Knowledge Test Guide, provides information for preparing you to take one or all of the following airman knowledge tests. This document supersedes FAA-G-8082-9E, dated February 2012.

TEST NAME	TEST CODE
Flight Engineer Turbojet/Basic	FEX
Flight Engineer Turboprop/Basic	FET
Flight Engineer Reciprocating Engine/Basic	FEN
Flight Engineer Turbojet (added rating)	FEJ
Flight Engineer Turboprop (added rating)	FEP
Flight Engineer Reciprocating Engine (added rating	g) FER

At one time, the flight engineer functioned as an inflight maintenance person. Today, the flight engineer is a technical expert, who must be thoroughly familiar with the operation and function of various airplane components. The principal function of the flight engineer is to assist the pilots in the operation of the airplane. Specific duties vary with different airplanes and operators.

The questions and answers on the Flight Engineer Knowledge Tests pertain only to airplanes that require a flight engineer. Because the questions and answers cover a wide scope of airplanes, powerplants, and systems, some questions are general in nature. The information contained in the questions and answers should never take precedence over specific information furnished by a manufacturer in the operation of an airplane.

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 <u>AFS630Comments@faa.gov</u>.

KNOWLEDGE TEST ELIGIBILITY REQUIREMENTS

Prior to taking a Flight Engineer Knowledge Test, you must be able to read, speak, and understand the English language; have appropriate documentation to verify that you are 19 years of age; and meet the experience requirements of Title 14 of the Code of Federal Regulation (14 CFR) part 63, section 63.37.

The proof of age may be satisfied by presenting photo identification, such as a driver's license, a government or military identification card, passport, or similar identification.

To verify that you meet the experience requirements of 14 CFR part 63, section 63.37, it is necessary to obtain a written statement and signature from one of the following authorized persons:

- A qualified flight engineer with the appropriate class rating
- A U.S. Armed Forces flight engineer instructor for the same class of airplane
- A flight engineer instructor associated with 14 CFR part 121 training program
- An FAA Aviation Safety Inspector (operations/airworthiness)

The endorser must include a statement that they have personally verified that you meet the experience requirements of 14 CFR part 63, section 63.37. They must also identify their position, such as flight engineer certificate number, name of the training facility, and FAA inspector's office identification.

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

You must pass a knowledge test on the areas specified by 14 CFR part 63, section 63.35. The areas are arranged in the following order on the knowledge tests: applicable Code of Federal Regulations; theory of flight and aerodynamics; meteorology with respect to engine operations; operating procedures (Pre-flight, normal, and emergency); airplane equipment; airplane systems; limitations (airplane procedures and engine operations); and math computations (engine operations, fuel consumption, center of gravity, and airplane loading).

DESCRIPTIONS OF THE TESTS

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

The following tests are for original class ratings and each contains 80 questions. You are allowed 3 hours to complete each test.

- Flight Engineer Turbojet/Basic (FEX)
- Flight Engineer Turboprop/Basic (FET)
- Flight Engineer Reciprocating Engine/Basic (FEN)

If you desire to add a class rating to your flight engineer certificate, you must successfully complete a knowledge test appropriate to the desired class rating. The following tests are for additional class ratings and each contains 50 questions. You are allowed 2 hours to complete each test.

- Flight Engineer Turbojet (added rating) (FEJ)
- Flight Engineer Turboprop (added rating) (FEP)
- Flight Engineer Reciprocating Engine (added rating) (FER)

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

TEST TAKING TIPS

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

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

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

USE OF TEST AIDS AND MATERIALS

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

The following guidelines apply:

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

TESTING PROCEDURES FOR APPLICANTS REQUESTING SPECIAL ACCOMMODATIONS

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

- Option 1. Use current testing facilities and procedures whenever possible.
- Option 2. You may use a self-contained, electronic device which pronounces and displays typed-in words (e.g., the Franklin Speaking Wordmaster®) to facilitate the testing process. (NOTE: The device should consist of an electronic thesaurus that audibly pronounces typed-in words and presents them on a display screen. The device should also have a built-in headphone jack for private listening in order to avoid disturbing others during testing.)

Option 3. If you do not choose to use the first or second option, you may request Unit Member assistance in reading specific words or terms from the test questions and/or supplement book. In the interest of preventing compromise of the testing process, the Unit Member must be an individual with no aviation background or expertise. The Unit Member must provide reading assistance only, with no explanation of words or terms. When this option is requested, the FSDO or IFO inspector must contact the Airman Testing Standards Branch (AFS-630) for assistance in selecting the test site and assisting Unit Member.

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

CHEATING OR OTHER UNAUTHORIZED CONDUCT

Computer testing centers must follow strict security procedures to avoid test compromise. These procedures are established by the FAA and are covered in FAA Order 8080.6 (as amended), Conduct of Airman Knowledge Tests. The FAA has directed testing centers to terminate a test at any time a test Unit Member suspects a cheating incident has occurred. An FAA investigation will then be conducted. If the investigation determines that cheating or unauthorized conduct has occurred, 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, <u>www.faa.gov</u>. 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.

 <u>Computer Assisted Testing Service (CATS)</u> 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.

<u>Classification Code</u>: 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).

Flight Engineer Turbojet/Basic (FEX) Sample Questions

FLIGHT ENGINEER TURBOJET/BASIC (FEX)

1. While starting a turbine engine with an air starter, a hung start occurs before the starter disengages. Which procedure is correct?

A—Shut down the engine.

B—Increase the air velocity to the starter.

C—Slowly increase the power lever until the engine accelerates to idle.

Answer: A.

Learning Statement: Recall starter engine-starting procedures.

2. What is the highest ambient temperature that ice is likely to form in the engine inlet?

A—visibly moist air and +45 °F. B—visibly moist air and +70 °F.

C—relatively dry air and +32 °F.

Answer: A. Learning Statement: Recall effects of temperature-density altitude/icing.

3. Thermal protectors are used to

A-stop windshield heaters from melting the glass.

B—protect motors from overheating.

C—allow pitot heaters to melt any icing near the tube.

Answer: B.

Learning Statement: Recall electrical system-components/operating principles/characteristics/ static bonding and shielding.

4. What recovery would be appropriate in the event of compressor stall?

- A—reduce the thrust lever and then rapidly advance the thrust lever to decrease the angle of attack on the compressor blades, creating more airflow.
- B—reduce the thrust lever and then follow the procedures in the AFM/POH/CFM.
- C—advance the thrust lever slowly to increase airflow and decrease the angle of attack on one or more compressor blades.

Answer: B.

Learning Statement: Recall turbine engines-components/operational characteristics/associated instruments.

5. (Refer to figures 46 and 47) What is the airplane weight at the end of cruise under operating conditions No. 2?

A—100,860 pounds. B—101,900 pounds. C—110,900 pounds.

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

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER TURBOJET/BASIC (FEX)

<i>Topic</i> PLT002	Content	Specific
Pilot's Handbook of Aeronautical k	Knowledge, FAA-H-8083-25	
Aircraft Performance	Charts	Airspeed
Aircraft Performance	Limitations	Airspeeds
PLT003		
Aircraft Weight and Balance Handl Weight and Balance	Center of Gravity	TCDS
Type Certificate Data Sheets and S	,	
Weight and Balance	Center of Gravity	TCDS
PLT007		
Pilot's Handbook of Aeronautical k		500-
Aircraft Performance	Charts	EPRs
PLT011 Pilot's Handbook of Aeronautical k	(nowledge, EAA-H-8083-25	
Aircraft Performance	Charts	EPRs
Aircraft Performance	Charts	Takeoff Power
Aircraft Performance	Charts	Temperature
PLT012		
Pilot's Handbook of Aeronautical k		
Aircraft Performance	Computations	NM/1000#
PLT016 Aircraft Weight and Balance Handl Aircraft Performance	book, FAA-H-8083-1 Computations	Fuel Dump
PLT018	•	·
Pilot`s Handbook of Aeronautical k		
Aerodynamics	Principles of Flight	Load Factor
PLT019 Bilet's Handback of Asronautical k		
Pilot's Handbook of Aeronautical k Aircraft Performance	Computations	Cabin Altitude
PLT021 Aircraft Weight and Balance Handl	book EAA-H-8083-1	
Weight and Balance	Aircraft Loading	Definitions
Weight and Balance	Aircraft Loading	Formulas
Weight and Balance	Center of Gravity	% of MAC
Weight and Balance	Center of Gravity	Shifting Weight
Weight and Balance	Center of Gravity	Weight Shift
PLT028		C
<u>14 CFR 1</u>		
Regulations	14CFR Part 1	Flightcrew Member
PLT041		
AC 00-6 Aviation Weather Weather	Meteorology	Pressure
Pilot`s Handbook of Aeronautical k		
Aircraft Systems	Flight Instruments	Altimeter
PLT094		
Aircraft Weight and Balance Handl		Definitions
Weight and Balance	Aircraft Loading	Definitions
PLT108 AC 120-58 Pilot Guide for Large A	ircraft Ground Deicing	
Airport Operations	Ground Deicing	Glycol
Airport Operations	Ground Deicing	Glycol Properties / Mixtures
Airport Operations	Ground Deicing	Procedures / Good Practices
Airport Operations	Ground Deicing	Temperature
Airport Operations	Ground Deicing	Types
	und Deicing and Ground Operations in Condit	tions Conducive to Aircraft
Airport Operations	Ground Deicing	Temperature
Airport Operations	Ground Deicing	Two Step Deice / Anti-ice
PLT109		
Aviation Maintenance Technician I	Handbook - General FAA-H-8083-30 FAA-H-	<u>8083-30</u>

Aircraft Systems Electrical

Batteries / Maintenance / Hazards

Aircraft Systems	ant Mechanics Airframe Handbook Landing Gear	Brake System Operation and Components
Aircraft Systems	Landing Gear	Brakes
PLT114		
Aviation Maintenance Technician	<u>Handbook - General FAA-H-8083-30</u> Preflight	Aluminum Corrosion
Airport Operations	•	Aluminum Corrosion
Airport Operations	Preflight	Self-Locking Nuts
PLT118 14 CFR 121		
Regulations	14CFR Part 121	Emergency Instruments
PLT124		
AC 00-6 Aviation Weather Aircraft Performance		Atmospheric Density
Weather	Atmospheric Effects	Atmospheric Density Air Masses
	Meteorology	All Masses
Pilot's Handbook of Aeronautical Aircraft Performance	Atmospheric Effects	Airspeed
PLT128		
	round Deicing and Ground Operations in C	Conditions Conducive to Aircraft
Weather	Hazardous	lcing
PLT132		
14 CFR 1 Regulations	14CFR Part 1	V speeds
Regulations	14CFR Part 1	V2
Aeronautical Information Manual		12
Weather	Meteorology	Pressure
PLT135		
	ant Mechanics Airframe Handbook	
Aircraft Systems	Environmental	Pressurization / Valves / Controls / Operation
Pilot's Handbook of Aeronautical Aircraft Performance	Knowledge, FAA-H-8083-25 Charts	Cabin Pressure Altitude
Aircraft Systems	Environmental	Pressurization / Valves / Controls / Operation
PLT136	Environmental	Tressuization/ valves/ controls/ operation
	aft Control and Airplane Deice and Anti-Ice	Systems
Aircraft Systems	Powerplant	Turbine Characteristics
PLT137		
Ac 65-15 Airframe and Powerpla Aircraft Systems	ant Mechanics Airframe Handbook Environmental	Vapor Cycling
cooling/Component/Operation/Set		vapor oyonng
PLT138		
	ant Mechanics Airframe Handbook	
Aircraft Systems	Landing Gear	Fusible Plugs
Aircraft Systems	Landing Gear	Tires
Aircraft Systems	Landing Gear	Wheels
PLT139 14 CFR 121		
Aircraft Systems	Landing Gear	Retracted Safety / Warning System
Regulations	14CFR Part 121	TAWS
AC 65-15 Airframe and Powerpla	ant Mechanics Airframe Handbook	
Aircraft Systems	Fire Control	Sensors / Testing / Operation
PLT166		
AC 00-6 Aviation Weather Weather	Matagralagy	Dressure
Aeronautical Information Manual	Meteorology	Pressure
Aircraft Systems	Flight Instruments	Altimeter
Instrument Procedures	En Route	Altimeter Setting Procedures
PLT168		
Airplane Flying Handbook, FAA-		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Pilot's Handbook of Aeronautical		Angle of Attest
Aerodynamics Aerodynamics	Principles of Flight	Angle of Attack
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PLT173		
AC 00-6 Aviation Weather Weather	Meteorology	Atmosphere
Pilot`s Handbook of Aeronautical		
Weather	Meteorology	Atmosphere
Weather	Meteorology	Pressure
PLT174 Pilot`s Handbook of Aeronautical Aircraft Systems	Knowledge, FAA-H-8083-25 Flight Controls / Secondary	Yaw Dampner
PLT196		
Aeronautical Information Manual Weather	Aeronautical Weather Reports	ATIS
PLT203 AC 00-6 Aviation Weather		
Weather	Meteorology	Atmosphere
Weather	Meteorology	High Altitude
PLT205 14 CFR 91		
Regulations	14CFR Part 91	Alcohol / Drug Limitations
PLT206	an Conditions	
AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems	De-Icing / Anti-Icing	Intake / Carburetor Icing
PLT207		u u u u u u u u u u u u u u u u u u u
14 CFR 121 Regulations	14CFR Part 121	Emergency Lights
AC 65-15 Airframe and Powerplar		Emergency Lights
Aircraft Systems	Electrical	Static Wicks / Lightning Protection / Bonding
Aviation Maintenance Technician	Handbook - General FAA-H-8083-30	
Aircraft Systems	Electrical	Circuit Breakers / Fuses / Relays / Switches
Aircraft Systems	Electrical	Generators / Alternators / Controls / Systems
Aircraft Systems PLT208	Electrical	Properties
Aeronautical Information Manual		
Flight Operations	Emergency Procedures	Declare an Emergency
Flight Operations Flight Operations	Emergency Procedures Emergency Procedures	Declare an Emergency Hijacking
Flight Operations Flight Operations PLT209	Emergency Procedures	• •
Flight Operations Flight Operations	Emergency Procedures	• •
Flight Operations Flight Operations PLT209 <u>AC 91-74 Pilot Guide: Flight in Icin</u> Aircraft Systems PLT210	Emergency Procedures ng <u>Conditions</u> Powerplant	Hijacking
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Flight Operations Flight Operations PLT209 <u>AC 91-74 Pilot Guide: Flight in Icin</u> Aircraft Systems PLT210	Emergency Procedures <u>ng Conditions</u> Powerplant <u>nt Mechanics Powerplant Handbook</u>	Hijacking Engine Instruments
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems PLT212	Emergency Procedures <u>Ag Conditions</u> Powerplant <u>At Mechanics Powerplant Handbook</u> Powerplant	Hijacking Engine Instruments Engine Operation
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Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplar Aircraft Systems Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplar Aircraft Systems Aircraft Systems Aviation Maintenance Technician Flight Operations	Emergency Procedures <u>ag Conditions</u> Powerplant <u>at Mechanics Powerplant Handbook</u> Powerplant <u>14CFR Part 1 <u>14CFR Part 1 <u>at Mechanics Powerplant Handbook</u> Fire Control <u>Fire Control <u>t Mechanics Airframe Handbook</u> Fire Control <u>Handbook - General FAA-H-8083-30</u> Emergency Procedures</u></u></u>	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Ac 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Aviation Maintenance Technician Flight Operations Flight Operations	Emergency Procedures Agency Procedures Agency Powerplant Powerplant Powerplant 14CFR Part 1 Agency Powerplant Handbook Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Emergency Procedures	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplar Aircraft Systems Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplar Aircraft Systems Aircraft Systems Aviation Maintenance Technician Flight Operations	Emergency Procedures <u>ag Conditions</u> Powerplant <u>at Mechanics Powerplant Handbook</u> Powerplant <u>14CFR Part 1 <u>14CFR Part 1 <u>at Mechanics Powerplant Handbook</u> Fire Control <u>Fire Control <u>t Mechanics Airframe Handbook</u> Fire Control <u>Handbook - General FAA-H-8083-30</u> Emergency Procedures</u></u></u>	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Aviation Maintenance Technician Flight Operations Flight Operations <td>Emergency Procedures Ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control At Mechanics Airframe Handbook Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Emergency Procedu</td> <td>Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies</td>	Emergency Procedures Ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control At Mechanics Airframe Handbook Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Emergency Procedu	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Aviation Maintenance Technician Flight Operations PLT214 Airclase Aerodynamics <td>Emergency Procedures ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Emergency Procedures</td> <td>Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires</td>	Emergency Procedures ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Aviation Maintenance Technician Flight Operations Flight Operations <td>Emergency Procedures ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Emergency Procedures</td> <td>Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies</td>	Emergency Procedures ag Conditions Powerplant At Mechanics Powerplant Handbook Powerplant 14CFR Part 1 At Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Acraft Systems Aviation Maintenance Technician Flight Operations Flight Operations Flight Operations Flight Operations Flight Operations Flight Operations PLT214 Airplane Flying Handbook, FAA-H Aerodynamics Pilot's Handbook of Aeronautical Aerodynamics PLT235	Emergency Procedures ag Conditions Powerplant Powerplant Powerplant Powerplant 14CFR Part 1 at Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Eme	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies
Flight Operations Flight Operations PLT209 AC 91-74 Pilot Guide: Flight in Icir Aircraft Systems PLT210 AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems PLT212 14 CFR 1 Regulations AC 65-12 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Ac 65-15 Airframe and Powerplan Aircraft Systems Aviation Maintenance Technician Flight Operations Flight Operations Flight Operations Flight Operations Flight Operations PLT214 Airplane Flying Handbook, FAA-H Aerodynamics	Emergency Procedures ag Conditions Powerplant Powerplant Powerplant Powerplant 14CFR Part 1 at Mechanics Powerplant Handbook Fire Control Fire Control Fire Control Fire Control Handbook - General FAA-H-8083-30 Emergency Procedures Eme	Hijacking Engine Instruments Engine Operation Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight Sensors / Testing / Operation Extinguishing Agent / System / Preflight Electrical Fires Flammable Fluid Fires Ground Emergencies

PLT236		
Pilot's Handbook of Aeronautical	Knowledge, FAA-H-8083-25	
Aerodynamics	Flight Characteristics	Wing / Airfoil Characteristics
PLT242		
Pilot`s Handbook of Aeronautical Aerodynamics	Knowledge, FAA-H-8083-25 Principles of Flight	Forces Acting on Aircraft
PLT248		-
Pilot's Handbook of Aeronautical		
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT251	Handback, Constal EAA H 2022 20	
Aircraft Systems	Handbook - General FAA-H-8083-30 Fuel / Oil	Fuel Servicing
Aircraft Systems	Fuel / Oil	Specifications
Aircraft Systems	Powerplant	Fuel Requirements
PLT252		
	Handbook - General FAA-H-8083-30	
Aircraft Systems	Fuel / Oil	Fuel Specifications
PLT253		
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Fuel / Oil	Fuel Boost Bumps
Aircraft Systems	Fuel / Oil	Fuel Heat
PLT266	nt Machanica Airframa Handhaak	
AC 65-15 Airframe and Powerplan Aerodynamics	Airfoils	Slots
PLT273		
-	nt Mechanics Powerplant Handbook	
Aircraft Systems	Hydraulic	Hazards
AC 65-15 Airframe and Powerplan		
Aircraft Systems	Hydraulic	Accumulators
Aircraft Systems	Hydraulic	Filters / System
Aircraft Systems	Hydraulic	Hazards
Aircraft Systems	Hydraulic	Specifications
PLT274		
AC 00-6 Aviation Weather Weather	Meteorology	lcing
PLT278	Meteorology	lonig
	nt Mechanics Airframe Handbook	
Aircraft Performance	Atmospheric Effects	Temperature
Aircraft Performance AC 91-51 Effect of Icing on Aircra	Atmospheric Effects ft Control and Airplane Deice and Anti-Ice Sys	•
Aircraft Performance	Atmospheric Effects	•
Aircraft Performance AC 91-51 Effect of Icing on Aircra Aircraft Systems Pilot's Handbook of Aeronautical	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u>	tems Intake / Carburetor Icing
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot`s Handbook of Aeronautical</u> Aircraft Systems	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing	tems
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot`s Handbook of Aeronautical</u> Aircraft Systems PLT303	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u>	tems Intake / Carburetor Icing
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot`s Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u>	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments	tems Intake / Carburetor Icing Mach Meter
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u>	tems Intake / Carburetor Icing
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics PLT305 <u>AC 65-15 Airframe and Powerplan</u>	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u>	tems Intake / Carburetor Icing Mach Meter
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics PLT305	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight	tems Intake / Carburetor Icing Mach Meter
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot`s Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplan Aerodynamics PLT310	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils	tems Intake / Carburetor Icing Mach Meter Angle of Attack
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircraf</u> Aircraft Systems <u>Pilot`s Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> <u>Aerodynamics</u> PLT305 <u>AC 65-15 Airframe and Powerplan</u> Aerodynamics PLT310 <u>Pilot`s Handbook of Aeronautical</u>	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u>	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> <u>Aerodynamics</u> PLT305 <u>AC 65-15 Airframe and Powerplan</u> <u>Aerodynamics</u> PLT310 <u>Pilot's Handbook of Aeronautical</u> <u>Aerodynamics</u>	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics PLT305 <u>AC 65-15 Airframe and Powerplan</u> Aerodynamics PLT310 <u>Pilot's Handbook of Aeronautical</u> Aerodynamics Aerodynamics	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u>	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics PLT305 <u>AC 65-15 Airframe and Powerplan</u> Aerodynamics PLT310 <u>Pilot's Handbook of Aeronautical</u> Aerodynamics Aerodynamics PLT313	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> Aerodynamics PLT305 <u>AC 65-15 Airframe and Powerplan</u> Aerodynamics PLT310 <u>Pilot's Handbook of Aeronautical</u> Aerodynamics Aerodynamics	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria
Aircraft Performance <u>AC 91-51 Effect of Icing on Aircra</u> Aircraft Systems <u>Pilot's Handbook of Aeronautical</u> Aircraft Systems PLT303 <u>Aerodynamics for Naval Aviators</u> <u>Aerodynamics</u> PLT305 <u>AC 65-15 Airframe and Powerplan</u> <u>Aerodynamics</u> PLT310 <u>Pilot's Handbook of Aeronautical</u> <u>Aerodynamics</u> <u>PLT313</u> <u>Aircraft Weight and Balance Hanc</u>	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>book, FAA-H-8083-1</u>	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot's Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplan Aerodynamics PLT310 Pilot's Handbook of Aeronautical Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Hand Weight and Balance PLT318 Aeronautical Information Manual	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>book, FAA-H-8083-1</u> Aircraft Loading	Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths Definitions
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot's Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplant Aerodynamics PLT310 Pilot's Handbook of Aeronautical Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Hand Weight and Balance PLT318 Aeronautical Information Manual Flight Operations	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>book, FAA-H-8083-1</u>	tems Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot's Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplan Aerodynamics PLT310 Pilot's Handbook of Aeronautical Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Hand Weight and Balance PLT318 Aeronautical Information Manual Flight Operations PLT324	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>book, FAA-H-8083-1</u> Aircraft Loading Normal Procedures	Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths Definitions
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot's Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplant Aerodynamics PLT310 Pilot's Handbook of Aeronautical Aerodynamics PLT313 Aircraft Weight and Balance Hand Weight and Balance PLT318 Aeronautical Information Manual Flight Operations PLT324 AC 65-12 Airframe and Powerplant	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>book, FAA-H-8083-1</u> Aircraft Loading	Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths Definitions Minimum Fuel Advisory
Aircraft Performance AC 91-51 Effect of Icing on Aircraft Aircraft Systems Pilot's Handbook of Aeronautical Aircraft Systems PLT303 Aerodynamics for Naval Aviators Aerodynamics PLT305 AC 65-15 Airframe and Powerplan Aerodynamics PLT310 Pilot's Handbook of Aeronautical Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Hand Weight and Balance PLT318 Aeronautical Information Manual Flight Operations PLT324	Atmospheric Effects <u>ft Control and Airplane Deice and Anti-Ice Sys</u> De-Icing / Anti-Icing <u>Knowledge, FAA-H-8083-25</u> Flight Instruments Principles of Flight <u>nt Mechanics Airframe Handbook</u> Airfoils <u>Knowledge, FAA-H-8083-25</u> Load Factor Performance <u>dbook, FAA-H-8083-1</u> Aircraft Loading Normal Procedures <u>nt Mechanics Powerplant Handbook</u>	Intake / Carburetor Icing Mach Meter Angle of Attack High Lift Devices Atmospheric Criteria Weights / V Speeds / Runway Lengths Definitions

PLT326 AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook Aircraft Systems Environmental Gaseous Oxygen Aircraft Systems Environmental Oxygen Aeronautical Information Manual Human Factors Aeromedical Oxygen Mask Operation Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems Environmental Oxygen **PLT327** Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Environmental Aircraft Systems Oxygen **PLT338** AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook Aircraft Systems Pneumatics Pneumatics **PLT343** Pilot`s Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance Atmospheric Effects Temperature Aircraft Performance **Density Altitude** Humidity / Temperature / Air Density **PLT346** AC 65-15 Airframe and Powerplant Mechanics Airframe Handbook Aircraft Systems Flight Controls / Primary Ailerons **PLT347** 14 CFR 1 14CFR Part 1 Definitions Regulations **PLT368** 14 CFR 121 Regulations 14CFR Part 121 Admission to Flight Deck PLT385 14 CFR 121 14CFR Part 121 Regulations Cargo / Passenger Compartment 14 CFR 91 14CFR Part 125 Part 91 Operations Regulations **PLT386** 14 CFR 63 14CFR Part 63 Regulations Certificate Regulations 14CFR Part 63 **Replacement Certificate PLT388** 14 CFR 121 14CFR Part 121 **Cockpit Voice Recorders** Regulations 14CFR Part 121 Regulations Data Retention 14CFR Part 121 Regulations Flight Recorder **PLT389** 14 CFR 125 14CFR Part 119 Regulations Private Carriage / Non-common **PLT398** 14 CFR 121 Regulations 14CFR Part 121 **Dispatch Contents PLT400** 14 CFR 121 Regulations 14CFR Part 121 Required Documents for Flight **PLT404** <u>14 CFR 121</u> Regulations 14CFR Part 121 **Emergency Equipment** 14CFR Part 121 Regulations **Emergency Lights PLT405** 14 CFR 121 14CFR Part 121 Flashlight Regulations Regulations 14CFR Part 121 MEL/CDL PLT407 14 CFR 121 14CFR Part 121 **Differences Training** Regulations 14CFR Part 121 Regulations Flight Crewmember Training Regulations 14CFR Part 121 Initial Training 14CFR Part 121 Regulations **Recurrent Training**

DI T400		
PLT409 14 CFR 121		
Regulations	14CFR Part 121	Deadhead / Duty Time
Regulations	14CFR Part 121	Duty Time Limitations
Regulations	14CFR Part 121	Duty Time Limitations - Sole Position
Regulations	14CFR Part 121	Flag Operations
Regulations	14CFR Part 121	Rest Periods
PLT410		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Recency of Experience
<u>14 CFR 125</u>		
Regulations	14CFR Part 125	Part 91 Operations
<u>14 CFR 63</u>		
Regulations	14CFR Part 63	Suspension or Revocation
PLT413 14 CFR 25		
Regulations	14CFR Part 25	Fuel Jettisoning
PLT427		
14 CFR 63	14CEP Dort 62	Paguirad Cartification
Regulations PLT438	14CFR Part 63	Required Certificates
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Preflight
Regulations	14CFR Part 121	Supplemental Oxygen
PLT439		
<u>14 CFR 125</u> Regulations	14CFR Part 125	Maintenance Tasks
PLT440		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Crew Duty Stations
Regulations	14CFR Part 121	Critical Phase of Flight
Regulations	14CFR Part 121	Emergency Evacuation Duties
PLT443 14 CFR 121		
Regulations	14CFR Part 121	Qualifications
PLT444		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Maintenance Log Entries
PLT447	140FK Falt 121	Maintenance Log Linnes
<u>14 CFR 63</u>		
Regulations	14CFR Part 63	Medical Certificate Duration
Regulations	14CFR Part 67	Medical Deficiency
PLT448		
<u>14 CFR 63</u> Regulations	14CFR Part 63	Certificate
PLT449		
<u>14 CFR 1</u>		
Regulations	14CFR Part 121	IOE
<u>14 CFR 121</u> Regulations	14CFR Part 121	Testing Prerequisites
PLT451		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Qualifications
PLT460 <u>14 CFR 121</u>		
Regulations	14CFR Part 121	High Altitude Physiology
Regulations	14CFR Part 121	Qualifications
PLT462		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Emergency Equipment
PLT463 14 CFR 63		
Regulations	14CFR Part 63	Alcohol / Drug Testing
Regulations	14CFR Part 63	Drug / Alcohol Convictions
Regulations	14CFR Part 63	Suspension or Revocation

PLT464		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Crew Duty Stations
PLT473		
-	ant Mechanics Airframe Handbook	
Aircraft Systems	Flight Controls / Secondary	Servo Tabs
Aircraft Systems	Flight Controls / Secondary	Tabs
Pilot`s Handbook of Aeronautical		
Aircraft Systems	Flight Controls / Secondary	Servo Tabs
Aircraft Systems	Flight Controls / Secondary	Trim tabs
PLT479 AC 65-12 Airframe and Powerpla Aircraft Systems	ant <u>Mechanics Powerplant Handbook</u> Powerplant	Engine Start
Aircraft Systems	Powerplant	Starting
PLT480		C C
Pilot's Handbook of Aeronautical		
Aerodynamics	Flight Characteristics	Stability / Control
PLT493 AC 00-6 Aviation Weather		
Weather	Meteorology	lcing
AC 20-117 Hazards Following G	round Deicing and Ground Operations in Cond	5
Weather	Hazardous	lcing
Instrument Flying Handbook, FA	<u>A-H-8083-15</u>	
Weather	Hazardous	lcing
PLT495		
AC 00-6 Aviation Weather Aircraft Systems	Electrical	Static Wicks / Lightning Protection / Bonding
PLT497	Electrical	State Wets / Eighting Foteetion / Bonding
Aeronautical Information Manual		
Flight Operations	Emergency Procedures	Declare an Emergency
Publications	AIM	Transponder Operation
PLT499		
AC 65-12 Airframe and Powerpla Aircraft Systems	ant <u>Mechanics Powerplant Handbook</u> Powerplant	
Aircraft Systems	Powerplant	Engine Instruments Engine Operation
Aircraft Systems	Powerplant	Starting
•	-	v
Aircraft Systems	Powerplant	Turbine Components / Functions
Aircraft Systems	Powerplant	Turbine Compressors
Aircraft Systems	Powerplant	Turbine Sensors
Airplane Flying Handbook, FAA-I Aircraft Systems	<u>H-8083-3A</u> Powerplant	Turbine Characteristics
Aircraft Systems	Powerplant	Turbine Compressors
Pilot's Handbook of Aeronautical		
Aircraft Systems	Powerplant	Turbine Components / Functions
PLT502	·	·
Aeronautical Information Manual Publications	AIM	Light Gun Signals
PLT509		
Aeronautical Information Manual		
Aerodynamics	Flight Characteristics	Vortex Generation
PLT523	ant Mechanics Airframe Handbook	
Acrodynamics	Airfoils	Vortex Generators
PLT525		
Pilot's Handbook of Aeronautical		
Aircraft Systems	Environmental	Oxygen

Flight Engineer Turboprop/Basic (FET) Sample Questions

FLIGHT ENGINEER TURBOPROP/BASIC (FET)

1. During flight with zero angle of attack, the pressure along the upper surface of the wing will be

A—equal to atmospheric pressure.

B—less than atmospheric pressure.

C—greater than the pressure below the wing.

Answer: B.

Learning Statement: Recall angle of attack-characteristics/forces/principles.

2. Oil extracts the most heat from which turbine engine components?

A—Turbine bearings.

B—Compressor bearings.

C—Accessory drive bearings.

Answer: A. Learning Statement: Recall powerplant-controlling engine temperature.

3. Why should hydraulic fluid be filtered?

A—Water in the fluid could freeze.

B—It assures a positive feed of foam free fluid to the hydraulic pump inlet.

C—Contaminants may damage the seals and cylinder walls causing internal leakage.

Answer: C.

Learning Statement: Recall hydraulic systems-components/operating principles/characteristics.

4. What precaution should be taken when using truck-mounted deice/anti-ice equipment?

A—Run the airplane engines at idle.

B—Spray engine and APU inlets directly.

C—Spray pitot inlets and static ports indirectly.

Answer: C.

Learning Statement: Recall aircraft anti-icing/deicing-methods/fluids.

5. Which maintenance task may a flight engineer perform while operating under 14 CFR part 125?

A—Landing light replacement if there is no certificated mechanic available.

B—Remove, inspect, and replace a chip detector if the malfunction occurs in a remote area. C—Replenish hydraulic fluid in accordance with applicable regulations and the certificate

holder's manuals.

Answer: C. Learning Statement: Recall regulations-persons authorized to perform maintenance.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER TURBOPROP/BASIC (FET)

<i>Topic</i> PLT002	Content	Specific
Pilot's Handbook of Aeronauti Aircraft Performance	cal Knowledge, FAA-H-8083-25 Atmospheric Effects	Airspeed
Aircraft Performance	Limitations	Airspeeds
PLT003	Limitations	Люросио
Aircraft Weight and Balance H	andbook, FAA-H-8083-1	
Weight and Balance	Center of Gravity	TCDS
Type Certificate Data Sheets a		1000
Weight and Balance PLT011	Center of Gravity	TCDS
	cal Knowledge, FAA-H-8083-25	
Aircraft Performance	Charts	Take Off Power
Aircraft Performance	Charts	Takeoff / Landing / Alternate Values
Aircraft Performance	Charts	Takeoff Power
Aircraft Performance	Charts	Temperature
PLT012		
	cal Knowledge, FAA-H-8083-25	E
Aircraft Performance	Computations	Fuel
PLT016 Aircraft Weight and Balance H	andbook EAA-H-8083-1	
Aircraft Performance	Computations	Fuel Dump
PLT018		·
	cal Knowledge, FAA-H-8083-25	
Aerodynamics	Principles of Flight	Load Factor
PLT019		
Aircraft Performance	<u>cal Knowledge, FAA-H-8083-25</u> Charts	Cabin Altitude
Aircraft Performance	Computations	Cabin Altitude
PLT021	Comparations	
Aircraft Weight and Balance H		
Weight and Balance	Aircraft Loading	Definitions
Weight and Balance	Aircraft Loading	Formulas
Weight and Balance	Aircraft Loading	Limitations
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Shifting Weight
PLT026	A 11 0000 0A	
Airplane Flying Handbook, FA Aerodynamics	A-H-8083-3A Performance	Atmospheric Effects / Density / Pressure
ltitudes	T enormanoe	
PLT028		
<u>14 CFR 1</u>		
Regulations	14CFR Part 1	Flightcrew Member
PLT038 Pilot's Handbook of Aeronauti	cal Knowledge, FAA-H-8083-25	
Aircraft Performance	Charts	Torque in Inch-Pounds
PLT041		
AC 00-6 Aviation Weather		
Weather	Meteorology	Pressure
	cal Knowledge, FAA-H-8083-25	Altimator
Aircraft Systems	Flight Instruments	Altimeter
PLT108 AC 120-58 Pilot Guide for Larg	ne Aircraft Ground Deicing	
Airport Operations	Ground Deicing	Glycol
Airport Operations	Ground Deicing	Glycol Properties / Mixtures
Airport Operations	Ground Deicing	Procedures / Good Practices
Airport Operations	Ground Deicing	Temperature
Airport Operations	Ground Deicing	Туреѕ
PLT109	-	
Aviation Maintenance Technic	ian Handbook - General FAA-H-8083-30	
Aircraft Systems	Electrical	Batteries / Maintenance / Hazards

PLT114 Aviation Maintenance Technic	cian Handbook - General FAA-H-8083-30	
Airport Operations	Preflight	Aluminum Corrosion
Airport Operations	Preflight	Self-Locking Nuts
PLT118	<u> </u>	Ŭ
14 CFR 121 Regulations	14CFR Part 121	Emergency Instruments
-		Emergency instruments
PLT124 AC 00-6 Aviation Weather		
Aircraft Performance	Atmospheric Effects	Atmospheric Density
PLT128		
	g Ground Deicing and Ground Operations in	
Weather	Hazardous	lcing
PLT132 14 CFR 1		
Regulations	14CFR Part 1	V speeds
PLT135		
	rplant Mechanics Airframe Handbook	
Aircraft Systems	Environmental	Pressurization / Valves / Controls / Operation
	ical Knowledge, FAA-H-8083-25	
Aircraft Performance	Charts	Cabin Altitude
PLT137		
AC 65-15 Airframe and Powe Aircraft Systems	rplant Mechanics Airframe Handbook Environmental	Vapor Cycling
cooling/Component/Operation/		vapor Cycling
PLT138		
	rplant Mechanics Airframe Handbook	
Aircraft Systems	Landing Gear	Fusible Plugs
Aircraft Systems	Landing Gear	Wheels
PLT139	U U	
14 CFR 121		
Aircraft Systems	Landing Gear	Retracted Safety / Warning System
AC 65-15 Airframe and Powe	rplant Mechanics Airframe Handbook	
Aircraft Systems	Fire Control	Sensors / Testing / Operation
Aircraft Systems	Landing Gear	Retracted Safety / Warning System
PLT164		
Airplane Flying Handbook, FA	<u>A-H-8083-3A</u>	
Aerodynamics	Airspeed	Wind effects
PLT166		
AC 00-6 Aviation Weather	Mate engla en c	Development
Weather	Meteorology	Pressure
Aeronautical Information Man Instrument Procedures	ual En Route	Altimeter Setting Procedures
PLT168		J. J
	ical Knowledge, FAA-H-8083-25	
Aerodynamics	Principles of Flight	Angle of Attack
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT173		
	ical Knowledge, FAA-H-8083-25	
Weather	Meteorology	Pressure
PLT203		
AC 00-6 Aviation Weather	•• •	
Weather	Meteorology	Atmosphere
PLT205		
14 CFR 91 Regulations	14CFR Part 91	Alcohol / Drug Limitations
Regulations	140FN Fail 91	Alcohol / Drug Limitations

PLT207	
<u>14 CFR 121</u>	
Aircraft Systems	Electrical
Regulations	14CFR Part 121
AC 65-15 Airframe and Powerplan	
Aircraft Systems	Electrical
Aviation Maintenance Technician I Aircraft Systems	Handbook - General FAA-H-8083-30 Electrical
Aircraft Systems	Electrical
PLT210	Lieutica
	t Mechanics Powerplant Handbook
Aircraft Systems	Powerplant
Aircraft Systems	Powerplant
PLT212	
<u>14 CFR 1</u> Begulations	
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AC 65-15 Airframe and Powerplan Aircraft Systems	Fire Control
	Handbook - General FAA-H-8083-30
Flight Operations	Emergency Procedures
Flight Operations	Emergency Procedures
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PLT235	0.7
Airplane Flying Handbook, FAA-H-	
Aerodynamics	Principles of Flight
PLT236	
Pilot's Handbook of Aeronautical k Aerodynamics	Principles of Flight
PLT242 Pilot's Handback of Acronautical k	
Pilot's Handbook of Aeronautical k Aerodynamics	Principles of Flight
PLT243	
	t Mechanics Powerplant Handbook
Aircraft Systems	<u>t Mechanics Powerplant Handbook</u> Propeller
Aircraft Systems PLT251	Propeller
Aircraft Systems PLT251 Aviation Maintenance Technician H	
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil
Aircraft Systems PLT251 <u>Aviation Maintenance Technician H</u> Aircraft Systems Aircraft Systems	Propeller Handbook - General FAA-H-8083-30
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273	Propeller <u>Handbook - General FAA-H-8083-30</u> Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook
Aircraft Systems PLT251 <u>Aviation Maintenance Technician H</u> Aircraft Systems Aircraft Systems	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan	Propeller <u>Handbook - General FAA-H-8083-30</u> Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems	Propeller <u>Handbook - General FAA-H-8083-30</u> Fuel / Oil Fuel / Oil <u>t Mechanics Airframe Handbook</u> Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems	Propeller <u>Handbook - General FAA-H-8083-30</u> Fuel / Oil Fuel / Oil <u>t Mechanics Airframe Handbook</u> Hydraulic Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology g Conditions De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Knowledge, FAA-H-8083-25
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H Aerodynamics Aerodynamics PLT313	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Cnowledge, FAA-H-8083-25 Load Factor Performance
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Handd	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Cnowledge, FAA-H-8083-25 Load Factor Performance book, FAA-H-8083-1
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Handd	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Cnowledge, FAA-H-8083-25 Load Factor Performance
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Handl Weight and Balance PLT318	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Cnowledge, FAA-H-8083-25 Load Factor Performance book, FAA-H-8083-1
Aircraft Systems PLT251 Aviation Maintenance Technician H Aircraft Systems Aircraft Systems PLT273 AC 65-15 Airframe and Powerplan Aircraft Systems Aircraft Systems Aircraft Systems Aircraft Systems PLT274 AC 00-6 Aviation Weather Weather AC 91-74 Pilot Guide: Flight in Icin Aircraft Systems PLT278 AC 65-15 Airframe and Powerplan Aircraft Performance PLT310 Pilot's Handbook of Aeronautical H Aerodynamics Aerodynamics PLT313 Aircraft Weight and Balance Handd	Propeller Handbook - General FAA-H-8083-30 Fuel / Oil Fuel / Oil t Mechanics Airframe Handbook Hydraulic Hydraulic Hydraulic Hydraulic Meteorology <u>g Conditions</u> De-Icing / Anti-Icing t Mechanics Airframe Handbook Atmospheric Effects Cnowledge, FAA-H-8083-25 Load Factor Performance book, FAA-H-8083-1

Circuit Breakers / Fuses / Relays / Switches **Emergency Lights** Static Wicks / Lightning Protection / Bonding Circuit Breakers / Fuses / Relays / Switches Generators / Alternators / Controls / Systems **Engine Operation** Turbine Components / Functions Definitions Extinguishing Agent / System / Preflight **Electrical Fires** Flammable Fluid Fires **Ground Emergencies** Forces Acting on Aircraft Forces Acting on Aircraft Forces Acting on Aircraft Centrifugal Twisting **Fuel Servicing** Specifications Accumulators Filters / System Specifications System Operation lcing Ambient Temperature Temperature Atmospheric Criteria Weights / V Speeds / Runway Lengths Definitions Minimum Fuel Advisory

PLT324		
AC 65-12 Airframe and Powerplan	nt Mechanics Powerplant Handbook	
Aircraft Systems	Fuel / Oil	Oil System
Aircraft Systems	Fuel / Oil	Oil System Failure Modes
PLT326 AC 65-15 Airframe and Powerplan	ot Mechanics Airframe Handbook	
Aircraft Systems	Environmental	Oxygen
Aeronautical Information Manual Human Factors	Aeromedical	Oxygen Mask Operation
Pilot's Handbook of Aeronautical Aircraft Systems	Knowledge, FAA-H-8083-25 Environmental	Oxygen
PLT327		
Pilot`s Handbook of Aeronautical Aircraft Systems	Knowledge, FAA-H-8083-25 Environmental	Oxygen
PLT338	Environmental	Oxygen
AC 65-15 Airframe and Powerplan	nt Mechanics Airframe Handbook	
Aircraft Systems	Pneumatics	Pneumatics
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PLT342	- March - Star Davis and a stable - all - all	
AC 65-12 Airframe and Powerplan Aircraft Systems	nt Mechanics Powerplant Handbook Powerplant	Turbine Compressors
PLT343	1 onorplant	
Pilot's Handbook of Aeronautical	Knowledge, FAA-H-8083-25	
Aircraft Performance	Atmospheric Effects	Temperature
Aircraft Performance	Density Altitude	Humidity / Temperature / Air Density
PLT346		
AC 65-15 Airframe and Powerplan Aircraft Systems	nt Mechanics Airframe Handbook Flight Controls / Primary	Ailerons
PLT347	r light Controls / T finally	Allerons
14 CFR 1		
Regulations	14CFR Part 1	Definitions
PLT351		
	nt Mechanics Powerplant Handbook	Poto Dongo
Aircraft Systems	Propeller	Beta Range
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Aircraft Systems	Propeller	Governor Operation
Aircraft Systems	Propeller	Propeller Forces
Aircraft Systems	Propeller	Stresses
Aircraft Systems	Propeller	Unfeathering
Airplane Flying Handbook, FAA-F Aircraft Systems	Propeller	Feathering
PLT385		-
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Cargo / Passenger Compartment
<u>14 CFR 91</u> Regulations	14CFR Part 125	Part 91 Operations
PLT386		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	International Crewmember Certificates
<u>14 CFR 63</u>		
Regulations	14CFR Part 63	Certificate
PLT388		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Cockpit Voice Recorders
Regulations	14CFR Part 121	Data Retention
PLT398		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Dispatch Contents
PLT404		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Emergency Equipment
Regulations	14CFR Part 121	Emergency Lights

PLT405		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	MEL/CDL
PLT407 14 CFR 121		
Regulations	14CFR Part 121	IOE
PLT409		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Deadhead / Duty Time
Regulations	14CFR Part 121	Duty Time Limitations
Regulations	14CFR Part 121	Rest Periods
PLT410		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Recency of Experience
14 CFR 125		Recency of Experience
Regulations	14CFR Part 125	Part 91 Operations
PLT413		·
<u>14 CFR 25</u>		
Regulations	14CFR Part 25	Fuel Jettisoning
PLT438		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Preflight
Regulations	14CFR Part 121	Supplemental Oxygen
PLT439		Supplemental Oxygen
14 CFR 125		
Regulations	14CFR Part 125	Maintenance Tasks
PLT440		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Crow Duty Stations
-	14CFR Part 121	Crew Duty Stations
Regulations		Critical Phase of Flight
Regulations	14CFR Part 121	Emergency Evacuation Duties
PLT442 14 CFR 121		
Regulations	14CFR Part 121	Qualifications
PLT444		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Maintenance Log Entries
PLT447 14 CFR 63		
Regulations	14CFR Part 63	Medical Certificate Duration
Regulations	14CFR Part 67	Medical Deficiency
PLT448		
<u>14 CFR 63</u>		
Regulations	14CFR Part 63	Certificate
PLT460		
14 CFR 121 Regulations	14CFR Part 121	High Altitude Physiology
Regulations	14CFR Part 121	Qualifications
PLT462	14GFR Fait 121	Qualifications
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Emergency Equipment
PLT463		
<u>14 CFR 63</u>		Alested / Driver Teation
Regulations	14CFR Part 63	Alcohol / Drug Testing
Regulations	14CFR Part 63	Drug / Alcohol Convictions
Regulations	14CFR Part 63	Suspension or Revocation
PLT464 <u>14 CFR 121</u>		
Regulations	14CFR Part 121	Crew Duty Stations
PLT473		
Pilot's Handbook of Aeronautical		
Aircraft Systems	Flight Controls / Secondary	Spoilers
Aircraft Systems	Flight Controls / Secondary	Trim tabs

PLT478	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Starters
PLT479		
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Starters
Aircraft Systems	Powerplant	Starting
PLT493 AC 00-6 Aviation Weather		
Weather	Meteorology	lcing
	ound Deicing and Ground Operations in Condi	
Weather	Hazardous	lcing
Instrument Flying Handbook, FAA		
Weather	Hazardous	lcing
PLT497		
Aeronautical Information Manual Publications	AIM	Transponder Operation
PLT499		
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Engine Instruments
Aircraft Systems	Powerplant	Starting
Aircraft Systems	Powerplant	Turbine Components / Functions
Airplane Flying Handbook, FAA-H	<u>-8083-3A</u>	
Aircraft Systems	Powerplant	Turbine Characteristics
Pilot's Handbook of Aeronautical	Knowledge, FAA-H-8083-25	
Aircraft Systems	Powerplant	Turbine Characteristics
PLT502 Aeronautical Information Manual Publications	AIM	Light Gun Signals
PLT523		
AC 65-15 Airframe and Powerplan Aerodynamics	<u>nt Mechanics Airframe Handbook</u> Airfoils	Vortex Generators

Flight Engineer Reciprocating Engine/Basic (FEN) Sample Questions

FLIGHT ENGINEER RECIPROCATING ENGINE/BASIC (FEN)

1. Which of the following is considered an auxiliary flight control?

A—Ruddervator.

B—Upper rudder.

C—Leading-edge flaps.

Answer: C. Learning Statement: Recall secondary flight controls –types/purpose/functionality.

2. What is the primary source of directional stability for an airplane?

A—CG position.

B—Vertical tail.

C—Horizontal tail.

Answer: B.

Learning Statement: Recall forces acting on aircraft-stability/controllability.

3. What is the purpose of electrical bonding jumpers?

A—Decrease the probability of lightning damage to such elements as control hinges. B—Minimize electrolytic corrosion by connecting the airplane parts to form an integral unit. C—Provide a high-resistance path for electrical equipment, thereby eliminating ground wires.

Answer: A. Learning Statement: Recall aircraft performance-atmospheric effects.

4. Which type of oxygen system is the flight deck equipped with normally?

- A—Constant-flow.
- B—Phase dilution.

C—Diluter-demand.

Answer: C.

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

5. (Refer to figure 40) What is the loaded CG in percent of MAC under operating conditions No. 1?

A—28.9 percent. B—30.5 percent. C—32.9 percent.

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

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER RECIPROCATING ENGINE/BASIC (FEN)

<i>Topic</i> PLT002	Content	Specific
Pilot`s Handbook of Aeron	autical Knowledge, FAA-H-8083-25	
Aircraft Performance	Atmospheric Effects	Airspeed
Aircraft Performance	Charts	Airspeed
Aircraft Performance	Limitations	Airspeeds
PLT003 Aircraft Weight and Balance	e Handbook, FAA-H-8083-1	
Weight and Balance	Center of Gravity	TCDS
Type Certificate Data Shee		
Weight and Balance	Center of Gravity	TCDS
PLT011		
Aircraft Performance	autical Knowledge, FAA-H-8083-25 Charts	Takeoff / Landing / Alternate Values
Aircraft Performance	Charts	Takeoff Power
PLT012	Onarto	
	autical Knowledge, FAA-H-8083-25	
Aircraft Performance	Computations	Flight Computations
Aircraft Performance	Computations	Fuel
PLT016		
	e Handbook, FAA-H-8083-1	First Duran
Aircraft Performance	Computations	Fuel Dump
PLT018 Pilot`s Handbook of Aeron	autical Knowledge, FAA-H-8083-25	
Aerodynamics	Principles of Flight	Load Factor
PLT019		
	autical Knowledge, FAA-H-8083-25	
Aircraft Performance	Charts	Cabin Altitude
PLT021 Aircraft Weight and Balance	e Handbook, FAA-H-8083-1	
Weight and Balance	Aircraft Loading	Computations
Weight and Balance	Aircraft Loading	Definitions
Weight and Balance	Aircraft Loading	Formulas
Weight and Balance	Center of Gravity	Computations
Weight and Balance	Center of Gravity	Shifting Weight
PLT026		
Airplane Flying Handbook,		
Aerodynamics Altitudes	Performance	Atmospheric Effects / Density / Pressure
PLT028		
14 CFR 1		
Regulations	14CFR Part 1	Flightcrew Member
PLT041		
	autical Knowledge, FAA-H-8083-25	Alti-resetter
Aircraft Systems	Flight Instruments	Altimeter
PLT094 Pilot's Handbook of Aeron	autical Knowledge, FAA-H-8083-25	
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT108		, i i i i i i i i i i i i i i i i i i i
	Large Aircraft Ground Deicing	
Airport Operations	Ground Deicing	Glycol
Airport Operations	Ground Deicing	Glycol Properties / Mixtures
Airport Operations	Ground Deicing	Temperature
Airport Operations	Ground Deicing	Types
	werplant Mechanics Powerplant Handbook	Deleting Reate
Aircraft Systems	Propeller	Deicing Boots
PLT109 Aviation Maintenance Tecl	nnician Handbook - General FAA-H-8083-30	
Aircraft Systems	Electrical	Batteries / Maintenance / Hazards
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PLT114	Handback, Conoral EAA H 9092 20	
Aviation Maintenance Technician Airport Operations	<u>Handbook - General FAA-H-8083-30</u> Preflight	Aluminum Corrosion
Airport Operations	Preflight	Self-Locking Nuts
PLT115		
	ant Mechanics Powerplant Handbook	
Aircraft Systems	Fuel / Oil	Water Injection
Aircraft Systems	Powerplant	Detonation
Aircraft Systems	Powerplant	Improper Combustion
Aircraft Systems	Powerplant	Mixtures
PLT124		
Pilot's Handbook of Aeronautical		l luna ditu. Etta ata
Aircraft Systems	Powerplant	Humidity Effects
PLT128 AC 20-117 Hazards Following G	round Deicing and Ground Operations in Cond	litions Conducive to Aircraft
Weather	Hazardous	lcing
PLT134		-
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Mixtures
PLT135	Int Mechanics Airframe Handbook	
AC 65-15 Amrame and Powerpla Aircraft Systems	Environmental	Pressurization / Valves / Controls / Operation
Pilot's Handbook of Aeronautical		
Aircraft Performance	Charts	Cabin Altitude
Aircraft Performance	Charts	Cabin Pressure Altitude
Aircraft Systems	Environmental	Pressurization / Valves / Controls / Operation
PLT138		
	nt Mechanics Airframe Handbook	
Aircraft Systems	Landing Gear	Fusible Plugs
Aircraft Systems	Landing Gear	Wheels
PLT139		
	Int Mechanics Airframe Handbook Landing Gear	Potroated Sofety / Warning System
Aircraft Systems PLT164	Landing Gear	Retracted Safety / Warning System
Airplane Flying Handbook, FAA-I	H-8083-3A	
Aerodynamics	Airspeed	Wind effects
PLT166		
Aeronautical Information Manual		
Aircraft Systems	Flight Instruments	Altimeter
Instrument Procedures	En Route	Altimeter Setting Procedures
PLT168	1 8082 24	
Airplane Flying Handbook, FAA-I Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Pilot`s Handbook of Aeronautical		· · · · · · · · · · · · · · · · · · ·
Aerodynamics	Principles of Flight	Angle of Attack
PLT173		
Pilot's Handbook of Aeronautical		
Weather	Meteorology	Pressure
PLT189	we March as in Device plant Lloy de a la	
Aircraft Systems	nt <u>Mechanics Powerplant Handbook</u> Powerplant	Intake / Carb / Inlet Heat
PLT190		
	nt Mechanics Powerplant Handbook De-Icing / Anti-Icing	Intake / Carburetor Icing
Pilot`s Handbook of Aeronautical	8 8	J
Aircraft Systems PLT205	De-Icing / Anti-Icing	Intake / Carburetor Icing
14 CFR 91		
Regulations	14CFR Part 91	Alcohol / Drug Limitations

PLT207	
<u>14 CFR 121</u> Aircraft Systems	Electrical
Regulations	14CFR Part 121
AC 65-15 Airframe and Powerplan	
Aircraft Systems	Electrical
	Handbook - General FAA-H-8083-30
Aircraft Systems Aircraft Systems	Electrical Electrical
Aircraft Systems	Electrical
PLT212	
<u>14 CFR 1</u>	
Regulations	14CFR Part 1
Flight Operations	Handbook - General FAA-H-8083-30 Emergency Procedures
Flight Operations	Emergency Procedures
PLT234	
Pilot`s Handbook of Aeronautical k Aerodynamics	<u>Knowledge, FAA-H-8083-25</u> Principles of Flight
PLT235	i melpice ei ringite
Airplane Flying Handbook, FAA-H-	
Aerodynamics	Principles of Flight
PLT248 Pilot`s Handbook of Aeronautical k	Knowledge, FAA-H-8083-25
Aerodynamics	Principles of Flight
PLT249	t Machanian Dawamlant Handhaak
Aircraft Systems	t Mechanics Powerplant Handbook Powerplant
Aircraft Systems	Powerplant
PLT251	
AC 65-12 Airframe and Powerplan Aircraft Systems	t Mechanics Powerplant Handbook Fuel / Oil
PLT253	
	t Mechanics Powerplant Handbook
Aircraft Systems	Fuel / Oil Fuel / Oil
Aircraft Systems PLT273	
AC 65-15 Airframe and Powerplan	t Mechanics Airframe Handbook
Aircraft Systems	Hydraulic
Aircraft Systems	Hydraulic
Aircraft Systems	Hydraulic
Aircraft Systems PLT274	Hydraulic
AC 91-74 Pilot Guide: Flight in Icin	g Conditions
Aircraft Systems	De-Icing / Anti-Icing
PLT303 Aerodynamics for Naval Aviators	
Aerodynamics	Principles of Flight
PLT310	
Pilot's Handbook of Aeronautical k Aerodynamics	<u>(nowledge, FAA-H-8083-25</u> Load Factor
PLT313	
Aircraft Weight and Balance Hand	
Weight and Balance	Aircraft Loading
PLT318 Aeronautical Information Manual	
Flight Operations	Normal Procedures
PLT324	t Machanian Dowardstatt Law disast
AC 65-12 Airframe and Powerplan Aircraft Systems	t Mechanics Powerplant Handbook Fuel / Oil
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Circuit Breakers / Fuses / Relays / Switches Emergency Lights

Static Wicks / Lightning Protection / Bonding

Batteries / Maintenance / Hazards Circuit Breakers / Fuses / Relays / Switches Generators / Alternators / Controls / Systems

Definitions

Electrical Fires Flammable Fluid Fires

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Forces Acting on Aircraft

Forces Acting on Aircraft

Improper Combustion Mixtures

Water Injection

Fuel Boost Bumps Fuel System

Accumulators Filters / System Specifications System Operation

Ambient Temperature

Angle of Attack

Atmospheric Criteria

Definitions

Minimum Fuel Advisory

Oil System

PLT326		
AC 65-15 Airframe and Powerplan Aircraft Systems	nt Mechanics Airframe Handbook Environmental	Oxygen
Aeronautical Information Manual Human Factors	Aeromedical	Oxygen Mask Operation
Pilot`s Handbook of Aeronautical Aircraft Systems	Knowledge, FAA-H-8083-25 Environmental	Oxygen
PLT327		
Pilot`s Handbook of Aeronautical Aircraft Systems	Environmental	Oxygen
PLT331		,,,
Aeronautical Information Manual Human Factors	Aeromedical	Diving Decompression
PLT338	at Machanica Airframa Handhaak	
AC 65-15 Airframe and Powerplan Aircraft Systems	Pneumatics	Pneumatics
Aircraft Systems	Pneumatics	Servicing
PLT342		0
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Exhaust Systems
PLT343	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Engine Problems / Failure Modes
Aircraft Systems	Powerplant	Superchargers
Aircraft Systems	Powerplant	Water Injection
Pilot`s Handbook of Aeronautical	•	
Aircraft Performance	Atmospheric Effects	Temperature
Aircraft Performance	Density Altitude	Humidity / Temperature / Air Density
PLT346		
AC 65-15 Airframe and Powerplan Aircraft Systems	nt Mechanics Airframe Handbook Flight Controls / Primary	Ailerons
PLT347	Flight Controls / Flimary	Allelons
14 CFR 1		
Regulations	14CFR Part 1	Definitions
PLT351		
	nt Mechanics Powerplant Handbook	Deising
Aircraft Systems	Propeller	Deicing
Aircraft Systems	Propeller	Feathering
Aircraft Systems	Propeller	Governor Operation
Aircraft Systems	Propeller	Propeller Forces
Aircraft Systems	Propeller	Stresses
Aircraft Systems	Propeller	Unfeathering
Airplane Flying Handbook, FAA-H Aircraft Systems	Propeller	Feathering
PLT365		loanoning
	nt Mechanics Powerplant Handbook Powerplant	Specifications
Pilot's Handbook of Aeronautical	Knowledge, FAA-H-8083-25	
Aircraft Systems	Powerplant	Engine Instruments
PLT368		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Admission to Flight Deck
PLT385 14 CFR 121 Regulations	14CFR Part 121	Cargo / Passenger Compartment
<u>14 CFR 91</u> Regulations	14CFR Part 125	Part 91 Operations
PLT386		
<u>14 CFR 63</u> Regulations	14CFR Part 63	Certificate

PLT388		
<u>14 CFR 121</u>		
Regulations	14CFR Part 121	Cockpit Voice Recorders
PLT389		
<u>14 CFR 125</u>		
Regulations	14CFR Part 119	Private Carriage / Non-common
PLT400		
<u>14 CFR 121</u>		Demoised Demonstrate (an Eliste
Regulations	14CFR Part 121	Required Documents for Flight
PLT404		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Emergency Equipment
•		
Regulations	14CFR Part 121	Emergency Lights
PLT405		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Flashlight
•	14CFR Part 121	MEL/CDL
Regulations	14CFR Fail 121	MEL/CDL
PLT407		
14 CFR 121 Regulations	14CFR Part 121	IOE
Regulations	14CFR Part 121	Recurrent Training
•	14CFR Fail 121	Recurrent fraining
PLT409		
<u>14 CFR 121</u> Regulations	14CFR Part 121	Duty Time Limitations
-	14CFR Part 121	
Regulations		Flag Operations
Regulations	14CFR Part 121	Rest Periods
PLT410		
<u>14 CFR 121</u> Regulations	14CFR Part 121	IOE
•		
Regulations	14CFR Part 121	Recency of Experience
<u>14 CFR 63</u> Regulations		Succession or Develoption
Requiations	14CFR Part 63	Suspension or Revocation
•		1
PLT413		
PLT413 14 CFR 25		
PLT413 14 CFR 25 Regulations	14CFR Part 25	Fuel Jettisoning
PLT413 14 CFR 25 Regulations PLT438		
PLT413 14 CFR 25 Regulations		Fuel Jettisoning
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations	14CFR Part 25	
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439	14CFR Part 25	Fuel Jettisoning
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations	14CFR Part 25	Fuel Jettisoning
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125	14CFR Part 25 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121	14CFR Part 25 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440	14CFR Part 25 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121	14CFR Part 25 14CFR Part 121 14CFR Part 125	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations PLT40 14 CFR 121 Regulations PLT40 14 CFR 121 Regulations Regulations Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT40 14 CFR 121 Regulations Regulations Regulations Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations Regulations PLT442	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT42 14 CFR 121	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations PLT440 14 CFR 121 Regulations Regulations PLT442 14 CFR 121 Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT40 14 CFR 121 Regulations Regulations Regulations PLT42 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT40 14 CFR 121 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT40 14 CFR 121 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447 14 CFR 63	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications Maintenance Log Entries
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447 14 CFR 63 Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications Maintenance Log Entries Medical Certificate Duration
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447 14 CFR 63 Regulations Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications Maintenance Log Entries
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447 14 CFR 63 Regulations Regulations Regulations Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications Maintenance Log Entries Medical Certificate Duration
PLT413 14 CFR 25 Regulations PLT438 14 CFR 121 Regulations PLT439 14 CFR 125 Regulations PLT440 14 CFR 121 Regulations Regulations PLT442 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT443 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT444 14 CFR 121 Regulations PLT447 14 CFR 63 Regulations Regulations	14CFR Part 25 14CFR Part 121 14CFR Part 125 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121 14CFR Part 121	Fuel Jettisoning Supplemental Oxygen Maintenance Tasks Crew Duty Stations Critical Phase of Flight Emergency Evacuation Duties Qualifications Qualifications Maintenance Log Entries Medical Certificate Duration

FL 140 Gualifications Regulations 14CFR Part 121 Qualifications PL 7460 14CFR 121 Qualifications Regulations 14CFR Part 121 Qualifications PL 7462 14CFR 121 Regulations 14CFR Part 121 Regulations 14CFR Part 63 Alcohol / Drug Testing Regulations 14CFR Part 63 Drug / Alcohol / Drug Testing Regulations 14CFR Part 63 Drug / Alcohol / Drug Testing Regulations 14CFR Part 63 Drug / Alcohol / Drug Testing Regulations 14CFR Part 63 Suspension or Revocation PL 7464 14CFR 121 Crew Duty Stations 14 CFR 121 Powerplant Mechanics Powerplant Handbook Alcraft Systems Alcraft Systems Powerplant Handbook Preflight / Hydraulic Lock PL 7483 Aceodynamics Flight Characteristics Stability / Control PL 7483 Aceodynamics Powerplant Handbook Alcraft Systems Superchargers PL 7493 Aceodynamics Powerplant Handbook Superchargers PL 7433 Aceodynamics Flight Characteristics Superchargers Ici	PLT451		
PLT460 Id CFR 121 Qualifications H1 CFR 121 Qualifications Id CFR 121 Regulations 14 CFR Part 121 Emergency Equipment PLT462 Id CFR 63 Regulations 14 CFR Part 63 Alcohol / Drug Testing Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Drug / Alcohol Convictions Suspension or Revocation PLT464 Id CFR 121 Crew Duty Stations PLT464 Id CFR 121 Regulations 14 CFR Part 121 Crew Duty Stations PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aeronautical Knowledge, FAA-H-8083-25 Aeronautical Systems Superchargers PLT430 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PLT433 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Superchargers PLT433 Ac 60-6 Aviation Weather Weather Light Gun Signals			
14 CFR 121 Regulations 14 CFR Part 121 Qualifications PL T462 14 CFR 121 Regulations 14 CFR Part 121 Emergency Equipment PL T463 14 CFR 63 Regulations 14 CFR 63 Alcohol / Drug Testing Regulations 14 CFR Part 63 Alcohol / Drug Testing Regulations 14 CFR 63 Regulations 14 CFR Part 63 Drug / Alcohol Convictions Suspension or Revocation PL T464 14 CFR 121 Crew Duty Stations PL T464 14 CFR 121 Regulations 14 CFR Part 121 Crew Duty Stations PL T464 14 CFR 121 Crew Duty Stations PL T479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant PL T480 Plot Is Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Stability / Control PL T483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PL T493 AC 60-6 Aviation Weather Weather Meteorology Icing Naturent Flying Handbook, FAA-H-8083-15 Icing Icing Internet Plate 14 Veather Hazeronautical Inf	Regulations	14CFR Part 121	Qualifications
Regulations 14CFR Part 121 Qualifications PLT462	PLT460		
PLT462 14 CFR 121 Regulations 14 CFR Part 121 PLT463 14 CFR 63 Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 PLT464 Use Part 63 14 CFR 121 Crew Duty Stations Regulations 14 CFR Part 121 Crew Duty Stations Powerplant PLT479 Crew Duty Stations AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aerodynamics Aircraft Systems Powerplant Plt483 Powerplant AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aerodynamics Act 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aerodynamics Act 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aerodynamics Act 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers PLT483 Act 90-6 Aviation Weather Meteorology Icing <td></td> <td></td> <td></td>			
14 CFR 121 Regulations 14 CFR Part 121 Emergency Equipment PLT463 14 CFR 63 Regulations 14 CFR Part 63 Alcohol / Drug Testing Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Suspension or Revocation PLT464 14 CFR 121 Crew Duty Stations 14 CFR 121 Regulations 14 CFR Part 121 Crew Duty Stations PLT464 14 CFR 121 Crew Duty Stations Preflight / Hydraulic Lock PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Acroart Systems Powerplant Pliot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Stability / Control PLT480 Flight Characteristics Stability / Control PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers Ac 00-6 Aviation Weather Weather Superchargers Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing Weather Hazardous Icing Publications AIM Tr		14CFR Part 121	Qualifications
Regulations 14CFR Part 121 Emergency Equipment PLT463 14 CFR 63 Regulations 14 CFR Part 63 Alcohol / Drug Testing Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Suspension or Revocation PLT464 Table Part 63 Suspension or Revocation 14 CFR 121 Regulations 14 CFR Part 121 Crew Duty Stations Regulations 14 CFR Part 121 Crew Duty Stations PLT464 Table Part 121 Crew Duty Stations PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Preflight / Hydraulic Lock PLT480 Plot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Stability / Control PLT483 Powerplant Powerplant Handbook Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PLT493 Powerplant Superchargers AC 00-6 Aviation Weather Meteorology Icing Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing Weather Meteorology Icing Publications AIM Transponder Operation PLT502 Aeronau			
PLT463 14 CFR 63 Regulations 14 CFR Part 63 PLT464 14 CFR 121 Regulations 14 CFR Part 121 Regulations 14 CFR Part 121 Crew Duty Stations PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Aircraft Systems Powerplant PLT480 Preflight / Hydraulic Lock PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant PLT483 Preflight / Hydraulic Lock PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers Superchargers PLT483 Ac 00-6 Aviation Weather Weather Meteorology Instrument Flying Handbook, FAA-H-8083-15 Icing Weather Hazardous Icing Publications AIM Transponder Operation PLT502 Aeronautical Information Manu	<u>14 CFR 121</u> Regulations	14CER Part 121	Emergency Equipment
14 CFR 63 Regulations 14 CFR Part 63 Alcohol / Drug Testing Regulations 14 CFR Part 63 Drug / Alcohol Convictions Regulations 14 CFR Part 63 Suspension or Revocation PLT464 Terme and Powerplant Action Powerplant Handbook Alcohol / Drug Testing AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aricraft Systems Powerplant PLT480 Preflight / Hydraulic Lock PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aricraft Systems AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aricraft Systems Stability / Control PLT480 Plot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control Plates PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aricraft Systems Powerplant Superchargers PLT493 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aricraft Systems Superchargers PLT493 Ac 06-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers Superchargers PLT493 Ac 00-6 Aviation Weather Meteorology Icing Icing Instrument Flying Handbook, FAA-H-8083-15 Weather			Emergency Equipment
Regulations14CFR Part 63Alcohol / Drug TestingRegulations14CFR Part 63Drug / Alcohol ConvictionsRegulations14CFR Part 63Suspension or RevocationPLT464HCFR 121RegulationsTerw Duty StationsPLT479AC 65-12 Airframe and Powerplant Mechanics Powerplant HandbookPreflight / Hydraulic LockPLT479AC 65-12 Airframe and Powerplant Mechanics Powerplant HandbookPreflight / Hydraulic LockPLT479AC 65-12 Airframe and Powerplant Mechanics Powerplant HandbookPreflight / Hydraulic LockPLT480PowerplantPreflight / Hydraulic LockPLT480Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25AerodynamicsPLT480Flight CharacteristicsStability / ControlPLT483Powerplant Mechanics Powerplant HandbookAircraft SystemsAC 05-12 Airframe and Powerplant Mechanics Powerplant HandbookSuperchargersPLT493PowerplantSuperchargersAC 05-6 Aviation WeatherMeteorologyIcingInstrument Flying Handbook, FAA-H-8083-15IcingWeatherHazardousIcingPLT497Aeronautical Information ManualAIMPublicationsAIMTransponder OperationPLT502Aeronautical Information ManualLight Gun SignalsPL509Aeronautical Information ManualFlight Gun Signals			
Regulations 14CFR Part 63 Suspension or Revocation PLT464 14 CFR 121 Crew Duty Stations 14 CFR 121 Regulations 14CFR Part 121 Crew Duty Stations PLT479 C65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Preflight / Hydraulic Lock PLT479 Powerplant Preflight / Hydraulic Lock PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control PLT483 Flight Characteristics Stability / Control PLT483 AC 65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Superchargers AC 65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Superchargers PLT483 AC 00-6 Aviation Weather Superchargers PLT493 AC 00-6 Aviation Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing PLT497 Aeronautical Information Manual Publications AIM Transponder Operation PLT502 Aeronautical Information Manual PLT509 Aeronautical Information Manual Publications AIM Light Gun Signals PLT509 Aeronautical Information Manual Heronautical Information		14CFR Part 63	Alcohol / Drug Testing
Regulations 14CFR Part 63 Suspension or Revocation PLT464 14 CFR 121 Crew Duty Stations 14 CFR 121 Regulations 14CFR Part 121 Crew Duty Stations PLT479 C65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Preflight / Hydraulic Lock PLT479 Powerplant Preflight / Hydraulic Lock PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control PLT483 Flight Characteristics Stability / Control PLT483 AC 65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Superchargers AC 65-12 Aliframe and Powerplant Mechanics Powerplant Handbook Superchargers PLT483 AC 00-6 Aviation Weather Superchargers PLT493 AC 00-6 Aviation Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing PLT497 Aeronautical Information Manual Publications AIM Transponder Operation PLT502 Aeronautical Information Manual PLT509 Aeronautical Information Manual Publications AIM Light Gun Signals PLT509 Aeronautical Information Manual Heronautical Information	Regulations	14CFR Part 63	Drug / Alcohol Convictions
PLT464 14 CFR 121 Regulations 14CFR Part 121 Regulations 14CFR Part 121 Crew Duty Stations PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Flight Characteristics Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PLT493 AC 00-6 Aviation Weather Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Weather Hazardous PLT497 Aeronautical Information Manual Publications AIM PLT502 Aeronautical Information Manual Publications AIM PLT509 Aeronautical Information Manual	v	14CFR Part 63	Suspension or Revocation
14 CFR 121 Regulations 14CFR Part 121 Crew Duty Stations PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Preflight / Hydraulic Lock PLT480 PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Mechanics Powerplant Handbook Aircraft Systems Superchargers PLT493 AC 00-6 Aviation Weather Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Weather Icing PLT497 Aeronautical Information Manual PLT497 Publications AIM Transponder Operation PLT502 Aeronautical Information Manual AIM Light Gun Signals PLT509 Aeronautical Information Manual AIM Light Gun Signals	•		
PLT479 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Preflight / Hydraulic Lock PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PLT493 AC 00-6 Aviation Weather Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Weather Hazardous Icing PLT497 Aeronautical Information Manual PLT502 Aeronautical Information Manual Publications AIM Transponder Operation PLT509 Aeronautical Information Manual PLT509			
AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Preflight / Hydraulic Lock Aircraft Systems Powerplant Preflight / Hydraulic Lock PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control PLT483 Ac 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers PLT493 Powerplant Superchargers PLT493 Ac 00-6 Aviation Weather Superchargers Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing Weather Hazardous Icing PLT497 Aeronautical Information Manual Publications Publications AIM Transponder Operation PLT502 Aeronautical Information Manual Light Gun Signals PLT509 Aeronautical Information Manual Publications	Regulations	14CFR Part 121	Crew Duty Stations
Aircraft Systems Powerplant Preflight / Hydraulic Lock PLT480 Pliot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Stability / Control PLT483 Flight Characteristics Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers PLT493 Meteorology Icing AC 00-6 Aviation Weather Meteorology Icing Weather Meteorology Icing Instrument Flving Handbook, FAA-H-8083-15 Icing Weather Hazardous Icing PLT497 Aeronautical Information Manual Publications AIM Transponder Operation PLT502 Aeronautical Information Manual AIM Light Gun Signals PLT509 Aeronautical Information Manual Auronautical Information Manual Auronautical Information Manual Eight Gun Signals			
PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics Flight Characteristics Stability / Control PLT483 AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Aircraft Systems Powerplant Superchargers PLT493 AC 00-6 Aviation Weather Weather Meteorology Icing Mstrument Flying Handbook, FAA-H-8083-15 Veather Hazardous Icing PLT497 Aeronautical Information Manual Transponder Operation PLT502 Aeronautical Information Manual Light Gun Signals PLT509 Aeronautical Information Manual Eight Gun Signals			Des (l'estat () hadres all'estat esta
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AC 65-12 Airframe and Powerplant Mechanics Powerplant Handbook Superchargers Aircraft Systems Powerplant Superchargers PLT493 AC 00-6 Aviation Weather Icing Weather Meteorology Icing Instrument Flying Handbook, FAA-H-8083-15 Icing Weather Hazardous Icing PLT497 Aeronautical Information Manual Transponder Operation PLT502 Aeronautical Information Manual Light Gun Signals PLT509 Aeronautical Information Manual Icing Instrument Flying Handbook			2
PLT493		nt Mechanics Powerplant Handbook	
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Publications AIM Light Gun Signals PLT509 Aeronautical Information Manual	PLT502		
PLT509 Aeronautical Information Manual			
Aeronautical Information Manual	Publications	AIM	Light Gun Signals
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Flight Engineer Turbojet-Added Rating (FEJ) Sample Questions

FLIGHT ENGINEER TURBOJET-ADDED RATING (FEJ)

1. While starting a turbine engine with an air starter, a hung start occurs before the starter disengages. Which procedure is correct?

A—Shut down the engine.

B—Increase the air velocity to the starter.

C—Slowly increase the power lever until the engine accelerates to idle.

Answer: A.

Learning Statement: Recall starter engine-starting procedures.

2. What is the highest ambient temperature that ice is likely to form in the engine inlet?

A—visibly moist air and +45 °F. B—visibly moist air and +70 °F. C—relatively dry air and +32 °F.

Answer: A. Learning Statement: Recall effects of temperature-density altitude/icing.

3. Thermal protectors are used to

A—stop windshield heaters from melting the glass.

B—protect motors from overheating.

C—allow pitot heaters to melt any icing near the tube.

Answer: B.

Learning Statement: Recall electrical system-components/operating principles/characteristics/ static bonding and shielding.

4. What recovery would be appropriate in the event of compressor stall?

- A—reduce the thrust lever and then rapidly advance the thrust lever to decrease the angle of attack on the compressor blades, creating more airflow.
- B-reduce the thrust lever and then follow the procedures in the AFM/POH/CFM.
- C—advance the thrust lever slowly to increase airflow and decrease the angle of attack on one or more compressor blades.

Answer: B.

Learning Statement: Recall turbine engines-components/operational characteristics/associated instruments.

5. (Refer to figures 46 and 47) What is the airplane weight at the end of cruise under operating conditions No. 2?

A—100,860 pounds. B—101,900 pounds. C—110,900 pounds.

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

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER TURBOJET-ADDED RATING (FEJ)

<i>Topic</i> PLT002	Content	Specific
Pilot's Handbook of Aeronautical k		Aironaad
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Aircraft Weight and Balance Handl Weight and Balance	Aircraft Loading	Computations
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PLT110		
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PLT174		
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Weather	Meteorology	High Altitude
PLT207	Meteorology	
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Aircraft Systems	Powerplant	Engine Instruments
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Minimum Fuel Advisory

Gaseous Oxygen

Fuel to Oil Heat Exchanger

Ailerons

Ailerons

Replacement Certificate

Initial Training

Servo Tabs

Servo Tabs Spoilers

Starters Starting Turbine Starting Fire Procedures

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Engine Instruments Starting Turbine Components / Functions Turbine Compressors Turbine Sensors

Turbine Components / Functions Turbine Compressors

Turbine Components / Functions

Light Gun Signals

Vortex Generators

Vortex Generators

Flight Engineer Turboprop-Added Rating (FEP) Sample Questions

FLIGHT ENGINEER TURBOPROP-ADDED RATING (FEP)

6. During flight with zero angle of attack, the pressure along the upper surface of the wing will be

A-equal to atmospheric pressure.

B—less than atmospheric pressure.

C—greater than the pressure below the wing.

Answer: B.

Learning Statement: Recall angle of attack-characteristics/forces/principles.

7. Oil extracts the most heat from which turbine engine components?

A—Turbine bearings.

B—Compressor bearings.

C—Accessory drive bearings.

Answer: A. Learning Statement: Recall powerplant-controlling engine temperature.

8. Why should hydraulic fluid be filtered?

A—Water in the fluid could freeze.

B—It assures a positive feed of foam free fluid to the hydraulic pump inlet.

C—Contaminants may damage the seals and cylinder walls causing internal leakage.

Answer: C.

Learning Statement: Recall hydraulic systems-components/operating principles/characteristics.

9. What precaution should be taken when using truck-mounted deice/anti-ice equipment?

A—Run the airplane engines at idle.

B—Spray engine and APU inlets directly.

C—Spray pitot inlets and static ports indirectly.

Answer: C.

Learning Statement: Recall aircraft anti-icing/deicing-methods/fluids.

10. Which maintenance task may a flight engineer perform while operating under 14 CFR part 125?

A—Landing light replacement if there is no certificated mechanic available.

B—Remove, inspect, and replace a chip detector if the malfunction occurs in a remote area. C—Replenish hydraulic fluid in accordance with applicable regulations and the certificate

holder's manuals.

Answer: C. Learning Statement: Recall regulations-persons authorized to perform maintenance.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER TURBOPROP-ADDED RATING (FEP)

<i>Topic</i>	Content	Specific
PLT002 Pilot`s Handbook of Aeronautical I	Knowledge EAA-H-8083-25	
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Weather	Meteorology	Atmosphere
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Weather	Meteorology	High Altitude
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Aircraft Systems Aircraft Systems	Fuel / Oil Fuel / Oil	Fuel Specifications Specifications

Aircraft Systems	verplant Mechanics Powerplant Handbook Fuel / Oil	Fuel Boost Bumps
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Aircraft Systems	Hydraulic	Specifications
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PLT318		
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Flight Operations	Normal Procedures	Minimum Fuel Advisory
PLT324	warnlant Machanica Dawarnlant Llandhaak	
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AC 65-15 Airframe and Powerplar Aerodynamics	<u>nt Mechanics Airframe Handbook</u> Airfoils	Vortex Generators

Flight Engineer Reciprocating Engine-Added Rating (FER) Sample Questions

FLIGHT ENGINEER RECIPROCATING ENGINE-ADDED RATING (FER)

1. Which of the following is considered an auxiliary flight control?

A—Ruddervator.

B—Upper rudder.

C—Leading-edge flaps.

Answer: C. Learning Statement: Recall secondary flight controls –types/purpose/functionality.

2. What is the primary source of directional stability for an airplane?

A—CG position.

B—Vertical tail.

C—Horizontal tail.

Answer: B.

Learning Statement: Recall forces acting on aircraft-stability/controllability.

3. What is the purpose of electrical bonding jumpers?

A—Decrease the probability of lightning damage to such elements as control hinges. B—Minimize electrolytic corrosion by connecting the airplane parts to form an integral unit. C—Provide a high-resistance path for electrical equipment, thereby eliminating ground wires.

Answer: A. Learning Statement: Recall aircraft performance-atmospheric effects.

4. Which type of oxygen system is the flight deck equipped with normally?

- A—Constant-flow.
- B—Phase dilution.

C—Diluter-demand.

Answer: C.

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

5. (Refer to figure 40) What is the loaded CG in percent of MAC under operating conditions No. 1?

A—28.9 percent. B—30.5 percent. C—32.9 percent.

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

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT ENGINEER RECIPROCATING ENGINE-ADDED RATING (FER)

Topic	Content	Specific
PLT011 Pilot`s Handbook of Aeronautical	Knowledge EAA-H-8083-25	
Aircraft Performance	Charts	Takeoff Power
PLT012		
Pilot`s Handbook of Aeronautical		
Aircraft Performance	Computations	Flight Computations
Aircraft Performance	Computations	Fuel
PLT016		
Aircraft Weight and Balance Han Aircraft Performance	dbook, FAA-H-8083-1 Computations	Fuel Dump
PLT018		
Pilot's Handbook of Aeronautical Aerodynamics	Principles of Flight	Load Factor
PLT019	r molples of right	
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Aircraft Performance	Charts	Cabin Altitude
Aircraft Performance	Computations	Cabin Altitude
PLT021		
Aircraft Weight and Balance Han		
Weight and Balance	Aircraft Loading	Formulas
Weight and Balance	Center of Gravity	Shifting Weight
PLT108		
AC 120-58 Pilot Guide for Large		
Airport Operations	Ground Deicing	Glycol Properties / Mixtures
Airport Operations	Ground Deicing	Temperature
Airport Operations	Ground Deicing	Types
	ant Mechanics Powerplant Handbook	
Aircraft Systems	Propeller	Deicing Boots
PLT109		
Aircraft Systems	<u>Handbook - General FAA-H-8083-30</u> Electrical	Batteries / Maintenance / Hazards
PLT115		Datteries / Mainteriarios / Hazards
-	ant Mechanics Powerplant Handbook	
Aircraft Systems	Fuel / Oil	Fuel System
Aircraft Systems	Fuel / Oil	Water Injection
Aircraft Systems	Powerplant	Detonation
Aircraft Systems	Powerplant	Improper Combustion
Aircraft Systems	Powerplant	Mixtures
PLT124	Towerplant	WIXtures
Pilot's Handbook of Aeronautical	Knowledge EAA-H-8083-25	
Aircraft Systems		Humidity Effects
PLT128		
	round Deicing and Ground Operations in Cond	itions Conducive to Aircraft
Weather	Hazardous	lcing
PLT134		
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Aircraft Systems	Powerplant	Mixtures
PLT135	ant Machanica Airfroma Handback	
Aircraft Systems	ant Mechanics Airframe Handbook Environmental	Pressurization / Valves / Controls / Operation
Pilot's Handbook of Aeronautical		
Aircraft Performance	Charts	Cabin Altitude
Aircraft Performance	Charts	Cabin Pressure Altitude
PLT137		
-	ant Mechanics Airframe Handbook	
Aircraft Systems	Environmental	Vapor Cycling
Cooling/Component/Operation/Ser	rvicin	
PLT138		
	ant Mechanics Airframe Handbook	
Aircraft Systems	Landing Gear	Wheels

PLT173 AC 00-6 Aviation Weather		
Weather	Meteorology	Atmosphere
PLT189		
AC 65-12 Airframe and Powerplant Aircraft Systems	Mechanics Powerplant Handbook Powerplant	Intake / Carb / Inlet Heat
PLT190		
AC 65-12 Airframe and Powerplant Aircraft Systems	De-Icing / Anti-Icing	Intake / Carburetor Icing
Pilot`s Handbook of Aeronautical K Aircraft Systems	nowledge, FAA-H-8083-25 De-Icing / Anti-Icing	Intake / Carburetor Icing
PLT207		
<u>14 CFR 121</u> Aircraft Systems	Electrical	Circuit Breakers / Fuses / Relays / Switches
AC 65-15 Airframe and Powerplant		
Aircraft Systems	Electrical	Static Wicks / Lightning Protection / Bonding
Aviation Maintenance Technician H	landbook - General FAA-H-8083-30	
Aircraft Systems	Electrical	Circuit Breakers / Fuses / Relays / Switches
Aircraft Systems	Electrical	Generators / Alternators / Controls / Systems
PLT210		
AC 65-12 Airframe and Powerplant		Encine Operation
Aircraft Systems	Powerplant	Engine Operation
PLT212 Aviation Maintenance Technician H	landbook - General FAA-H-8083-30	
Flight Operations	Emergency Procedures	Electrical Fires
PLT243		
AC 65-12 Airframe and Powerplant Aircraft Systems	Mechanics Powerplant Handbook Propeller	Centrifugal Twisting
PLT249		
AC 65-12 Airframe and Powerplant		
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PLT253	Mashanian Dawamlant Llandhaali	
AC 65-12 Airframe and Powerplant Aircraft Systems	Fuel / Oil	Fuel Boost Bumps
Aircraft Systems	Fuel / Oil	Fuel System
PLT273		
AC 65-15 Airframe and Powerplant	Mechanics Airframe Handbook	
Aircraft Systems	Hydraulic	Accumulators
Aircraft Systems	Hydraulic	Specifications
Aircraft Systems	Hydraulic	System Operation
PLT324		
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Aeronautical Information Manual Human Factors	Aeromedical	Oxygen Mask Operation
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PLT342		
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	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Engine Problems / Failure Modes
Aircraft Systems	Powerplant	Superchargers
Aircraft Systems	Powerplant	Turbochargers
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Aircraft Systems	Propeller	Feathering
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Airplane Flying Handbook, FAA-H	•	5
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14 CFR 121		
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<u>14 CFR 25</u>		—
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Aircraft Systems	Flight Controls / Primary	Elevators / Horizontal Stabilizer
Aircraft Systems	Flight Controls / Secondary	Trim tabs
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Aircraft Systems	Powerplant	Ignition System Hazard
PLT479		
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PLT483	1 owolpiant	Tronight, Tryaradio Look
	nt Mechanics Powerplant Handbook	
Aircraft Systems	Powerplant	Superchargers
PLT497		
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